APPENDIX A

Using the AAWS Sample Online Application

This appendix discusses the sample online application (SOLA) component delivered for Admission Application Web Services (AAWS). To navigate to the component, select Set Up SACR, System Administration, Utilities, Sample User Interfaces, Sample Online Application.

See Also

PeopleSoft Recruiting and Admissions 9.0 PeopleBook, Using Admission Applications Web Services. The latest version of this PeopleBook chapter was posted as part of Recruiting and Admissions Bundle 27 documentation updates.

What is SOLA

The primary purpose of the AAWS suite (introduced in July, 2010) is to provide academic institutions, across the globe, with the ability to capture and move data from separately designed and constructed admissions applications into staging and production tables. Implementing and using this important technology and functionality requires in depth knowledge of Service-Oriented Architecture (SOA), Web Services Description Language (WSDL), and user interface design. The SOLA is an additional offering in Oracle's continuing efforts to provide documentation, references, and tools that will guide and assist academic institutions in their implementation of AAWS. SOLA provides the following important features:

- A sample user interface in a familiar PeopleTools package that can be easily understood and referenced.
- A pre-constructed user interface that utilizes and demonstrates how delivered AAWS is designed, organized, and managed. The sample interface includes embedded technical annotations within the delivered code.
- A delivered example of how the Constituent Transaction Manager (CTM) and AAWS work within a user interface.
- A working sample that can be used to test transaction setup and data update rules.
- A working sample that can be used to create data in CTM and application staging tables.

By providing a standalone online application sample, Oracle hopes to reduce the time required for successful AAWS implementations and improve uptake of future SOA based development.

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What SOLA is Not

SOLA as delivered, is *not* intended to be used as an online application representing your institution. It is a teaching tool and a reference for guidance on your implementation of AAWS. While there is nothing preventing institutions from using SOLA as a foundation to develop an online admissions application according to their requirements, Campus Solutions does *not* recommend the delivered user interface to be deployed for applicants. As you will see later on in this appendix, we have delivered a very basic design of an admission application and we fully expect that the sample user interface will not reflect the items you wish for your applicants to submit. Because SOLA is an example, we do not anticipate updating any of the data elements or the design of the delivered sample user interface.

Audience

This chapter is directed specifically at the advanced developer who is interested in understanding the relationship between AAWS and a *working* sample online application, developed using the PeopleTools Internet Architecture (PIA). We expect that the SOA concepts and technical capabilities illustrated with this example will be applicable when implementing AAWS with other user interface tools.

In order to gain a comprehensive understanding of how SOLA works, your developer needs to be aware of three distinct types of documentation associated with this sample feature:

- The first is this appendix. This appendix contains a technical overview of how SOLA works from a functional perspective, its design, as well as some references to additional supporting documentation.
- The second is a complete object inventory. This is a HTML version of a Technical Design Document (TDD). In this document you will find every object (that is, Fields, Record Definitions, Pages, Components, PeopleCode, and so on.) that make up SOLA. You can find this document on My Oracle Support (Doc ID is 1492390.1)
- Finally, there is the application package PeopleCode for this sample (SAD_OLA_DEMO). In each of the application classes are comments documenting the inner workings of SOLA.

The developer is strongly encouraged to become knowledgeable with the content in all three types of documentation to gain a comfortable understanding of AAWS and how it interacts within SOLA. When combined and internalized, this troika of information is intended to educate the developer on the use and deployment of AAWS within your institution.

Supporting Audience

In the Required Setups section of this appendix you will notice that AAWS has a dependency with other functional areas; specifically Student Financials and Campus Community. It is very likely that you will need to establish a close relationship (both technically and functionally) between AAWS and these areas.

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Required Setups

Before you can begin examining and evaluating SOLA, you need to perform the following setups:

Setup Areas	See
Enable the CTM, AAWS and SF web services that SOLA uses to *Active*.	PeopleTools Integration Broker PeopleBooks
Set up the URL definition SAD_APPL_ATCH. SOLA uses SAD_APPL_ATCH for attachments.	*PeopleSoft Recruiting and Admissions 9.0 PeopleBook*, Using Admission Applications Web Services, “Setting Up the Attachments URL”. The latest version of the Using Admission Applications Web Services chapter was posted as part of Recruiting and Admissions Bundle 27 documentation updates.
Set up the Application Fee Waiver Basis Codes on the Application Fee Waiver Basis page and AAWS Application Fee and Waiver Processing parameters on the Application Center Table page.	*PeopleSoft Recruiting and Admissions 9.0 PeopleBook*, Building Your Recruiting Structure
Set up the Data Update Rule Entry component to be used for the transaction.	*PeopleSoft Campus Community 9.0 Fundamentals PeopleBook*, Working with Constituent Transaction Management. The latest version of the Working with Constituent Transaction Management chapter was posted as part of Campus Community Bundle 27 documentation updates
Set up a transaction or use the delivered admissions application transaction for testing.	*PeopleSoft Campus Community 9.0 Fundamentals PeopleBook*, Working with Constituent Transaction Management.
Set up the Application Configuration component.	*PeopleSoft Recruiting and Admissions 9.0 PeopleBook*, Managing PeopleSoft Admission Transactions, “Configuring Admission Transactions”. The latest version of the Managing PeopleSoft Admission Transactions chapter was posted as part of Recruiting and Admissions Bundle 27 documentation updates.
Set up SOLA and verify whether SOLA is set up properly	SOLA Setup and Verification section in this appendix
New User Registration Setup: To configure a New User Registration context that will provision access to your Online Application Home page and transfer the applicant directly to this page after successfully authenticating to your system.	Using New User Registration Framework chapter. This chapter has been released as part of the Campus Community documentation updates for Bundle 27.
Setting Up Online Payment for Application Fee	*PeopleSoft Recruiting and Admissions 9.0 PeopleBook*, Using Admission Applications Web Services, “Setting Up Hosted Payment”

Web Services Used by SOLA

This table lists the web services that SOLA uses and where you can find documentation about these services:

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Web Service	Web Service Operations	See
SAD_ADMISSIONS	• SAD_CREATEAPPL (Create admission application) • SAD_GETAPPL (Get admission application) • SAD_GETAPPL_RESP (Get admission application response) • SAD_GETAPPLS (Get admission applications) • SAD_GETAPPLS_RESP (Get admission applications response) • SAD_SAVEAPPL (Save admission application) • SAD_SUBMITAPPL (Submit admission application) • SAD_GETATTACH (Get admission attachments)	Using Admission Applications Web Services PeopleBook chapter
SSF_EPAYMENT_TRANSACTION	• SSF_INITIATE_EPAYMENT (Initiate an ePayment) • SSF_COMPLETE_EPAYMENT (Complete an ePayment)	How to Test AAWS and Hosted Payment SSF_INITIATE_EPAYMENT Service Operation Tester [Doc ID 1349409.1] Using Admission Applications Web Services PeopleBook chapter

New User Registration Framework and SOLA

The New User Registration framework, integrated with SOLA, enables an applicant to sign up for a user ID. The framework provides a sample New User Registration login page that you can customize and deploy to suit your institution's requirements. An applicant can use this page to sign into the system or to register for a user ID. The applicant accesses the New User Registration login page from a link or button you would have added to your portal (for example: "To apply online, click here"). Once transferred to the New User Registration login page, the applicant can create a new user ID or use an existing one if the applicant already has one (for example the applicant has taken courses previously in his or her life). Once authenticated to your system, New User Registration can provision the applicant with security access to your Online Application component and then automatically transfer the applicant directly to that page. To do so, a New User Registration Context specific to Online Application needs to be created.

See Using New User Registration Framework PeopleBook chapter. This chapter has been released as part of the Campus Community documentation updates for Bundle 27.

Entity Registry and SOLA

This table lists the records and their corresponding entities that are populated through Constituent Staging and Application Transactions staging tables from SOLA:

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Entity ID	Entity Name	Staging Record
SCC_ENTITY_20090521054417	Constituent	SCC_STG_CONSTIT
SCC_ENTITY_20090520155540	Person Data Effdt	SCC_STG_PDE
SCC_ENTITY_20090521053330	Names	SCC_STG_NAMES
SCC_ENTITY_20090520155755	Address	SCC_STG_ADDR
SCC_ENTITY_20090520155634	Phone	SCC_STG_PHONE
SCC_ENTITY_20090521044252	Email Address	SCC_STG_EMAIL
SCC_ENTITY_20090520155342	National ID	SCC_STG_NID
SCC_ENTITY_20090519160928	Citizenship	SCC_STG_CITZN
SCC_ENTITY_20090520035051	Person Data (USA)	SCC_STG_PRSDATU
SCC_ENTITY_20090723101739	Emergency Contact	SCC_STG_EMG_CNT
SCC_ENTITY_20090723101507	Emergency Phone	SCC_STG_EMG_PHN
SCC_ENTITY_20090521094345	Application	SAD_APL_DAT_STG
SCC_ENTITY_20090521094125	Career Sequence	SAD_APP_CSQ_STG
SCC_ENTITY_20090521093827	Academic Program	SAD_APL_PRG_STG
SCC_ENTITY_20090521093651	Academic Plan	SAD_APL_PLN_STG
SCC_ENTITY_20090520153020	Student Career (Constituent)	SCC_STG_STD_CAR
SCC_ENTITY_20090521090104	Application Attachment	SAD_APLATCH_STG
SCC_ENTITY_20090521084930	File Attachment	SCC_FATTACH_WRK
SCC_ENTITY_20090521043203	Academic History	SCC_STG_ACADHST
SCC_ENTITY_20090520160401	External Academic Data	SCC_STG_EXACDDT
SCC_ENTITY_20090521042406	External Degree	SCC_STG_EXTDEGR
SCC_ENTITY_20090625090929	Q&A Application Extension	SCC_EXTN_STG
N/A	N/A	SCC_SL_TRNMAP (Records a mapping between the Transaction Manager constituent and any transaction the constituent has participated.)

See Also

PeopleSoft Campus Community 9.0 Fundamentals PeopleBook, Setting Up Entity Registry chapter. The latest version of this PeopleBook chapter was posted as part of the Campus Community documentation updates for Bundle 27.

Functional Flow for SOLA

This section discusses the functional flow of how an applicant registers for a user ID and uses SOLA.

New User Registration

Steps:

1. The applicant registers and authenticates to access your system.

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The applicant should be allowed to access your system by using an existing user ID or by creating a new one. Delivered with your system is a New User Registration login sample page (Set Up SACR, System Administration, Utilities, Sample User Interfaces, New User Registration). The page is a sample user interface that shows how security can be handled to access your system, provision a new or an existing user ID with the security to access your Online Application page and be automatically transferred to that page.

While the New User Registration login sample page requires a kiosk to be deployed (where the anonymous user gets logged in as a true user), also delivered with your system is a New User Registration Tester page (SCC_NUR_TESTER) (Set Up SACR, System Administration, Utilities, Sample User Interfaces, New User Registration Tester). This page allows you to evaluate the benefits of integrating a self-service transaction such as Online Application to New User Registration framework.

Note. Do not deploy the New User Registration Tester page in a production environment.

New User Registration Tester page

2. The applicant can use an existing user ID and password, or can create a new one by selecting the Need a User ID? Yes/No check box. When doing so the Confirm Password and any other constituent fields you may want to add to the page are displayed. When the applicant clicks the Create User button, the system invokes the SCC_USERREG_CREATEACCT web service operation. This operation provisions an applicant with an ID and password as well as some generic roles. If set up with a New User Registration Context, the New User Registration framework provisions the new or existing user ID with some specific security roles to access the Online Application page and transfers the applicant directly to that page.

Creating a New Application

Steps:

1. The applicant signs in to access the institution's Admissions Application home page. The system invokes the web service operations SCC_USERREG_AUTHENTICATE when the applicant signs into the system and SAD_GETAPPLS when the applicant reaches the Admissions Application home page.

   Because this is the first time the applicant is visiting the institution's Application Home page, the web service operation SAD_GETAPPLS will not return any application data.

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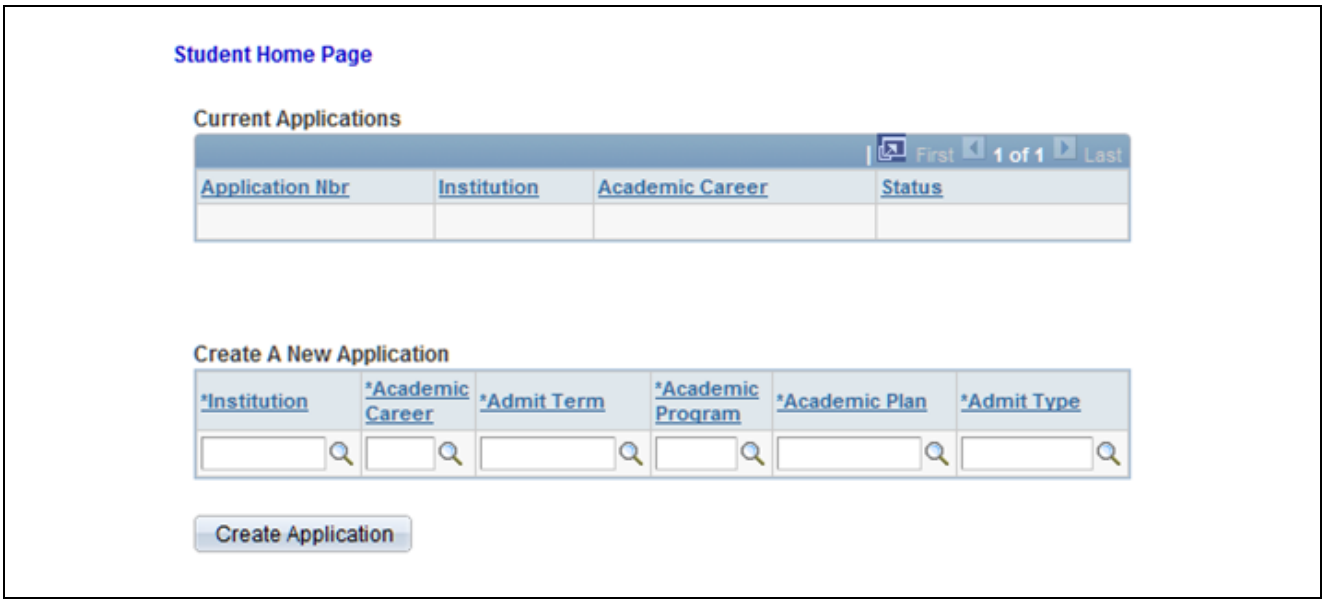
SOLA includes a sample Application Home page (SAD_OLA_HOME) (Set Up SACR, System Administration, Utilities, Sample User Interfaces, Sample Online Application).



Application Home page

2. The applicant selects the institution, academic career, admit term, academic program, academic plan, and admit type he or she wishes to apply for.
3. The applicant clicks the Create Application button. This invokes the SAD_CREATEAPPL web service operation.
4. Because this is the first interaction with the institution (from an admissions perspective), the web service operation SAD_CREATEAPPL minimally creates row(s) in both the constituent record (SCC_STG_NAMES) and the academic program stack (SAD_APL_DAT_STG, SAD_APL_PLN_STG, SAD_APL_PRG_STG, and SAD_APP_CSQ_STG).
5. When the applicant clicks the Create Application button, the system displays the first of six pages that the applicant uses to fill out the application. At this point, the applicant can fill out the application and submit the application. When the Submit button is clicked, the system invokes the SAD_SUBMITAPPL service operation.

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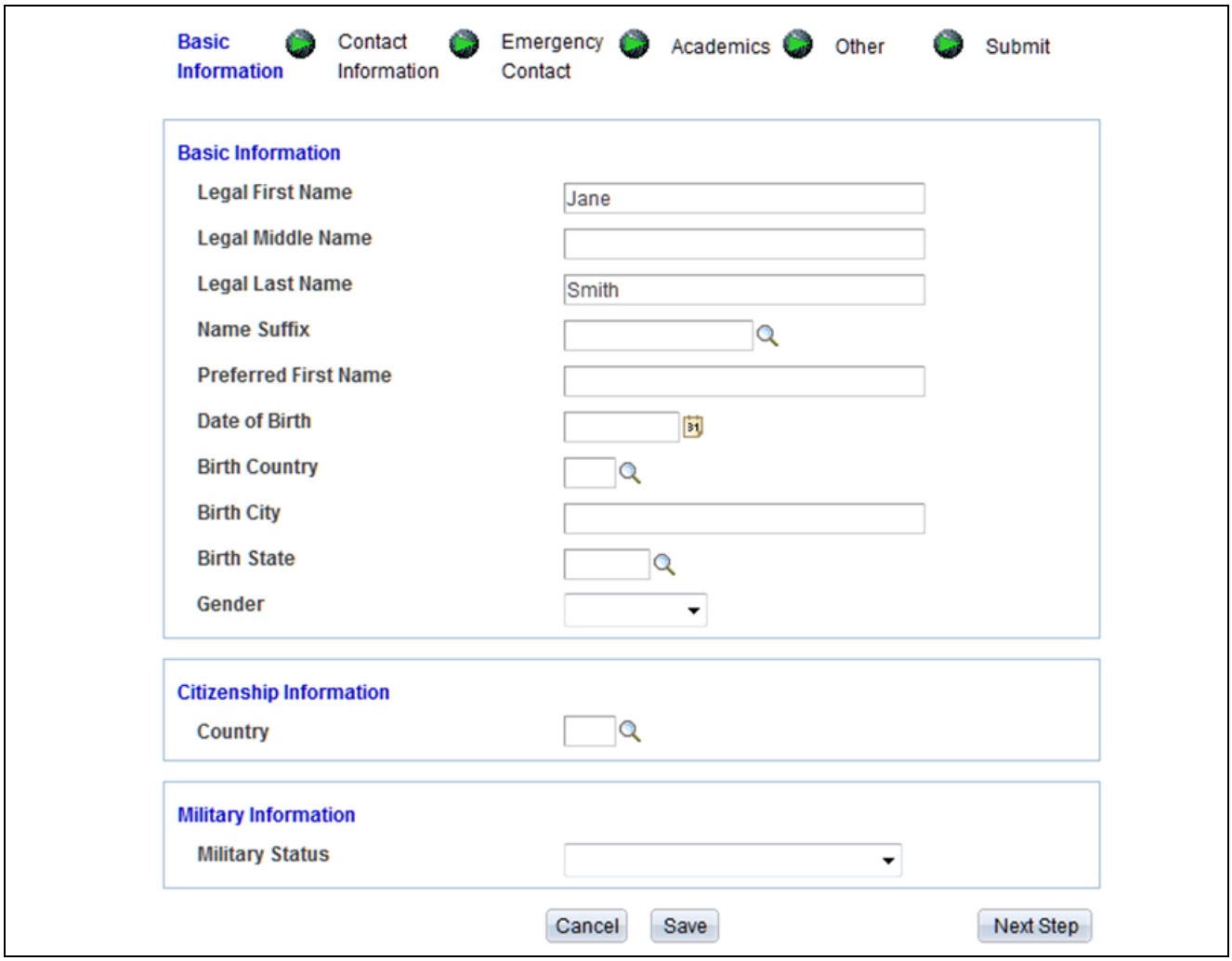

One of the six pages for application data entry

6. Instead of entering data in all the six pages at one time, the applicant can fill out the application over several sessions. To do this, the applicant can click the Save button and the application data is saved to the staging tables. When the Save button is clicked, the system invokes the SAD_SAVEAPPL service operation.
7. If the applicant elects to cancel the application process, a warning message appears to confirm the cancellation. The applicant can either continue to cancel the application and nothing will be saved and the applicant returns returned to the Application Home page. Else, the applicant can go back to the page where he or she clicked the Cancel button and continue with the application.
8. When SAD_SAVEAPPL or SAD_SUBMITAPPL is invoked by the applicant's actions, the system captures all the data that has been entered and saves it to the appropriate staging tables.

Editing Existing Application

Steps:

1. Again through the New User Registration login page (or a custom version of it), the applicant signs in using an existing user ID. The applicant is automatically transferred to the Online Application page and the system invokes the SAD_GETAPPLS service operation. This service operation returns all the applications that pertain to the applicant. To keep this scenario simple, let us assume that there is only one application that the applicant is working on and therefore the home page displays that application.

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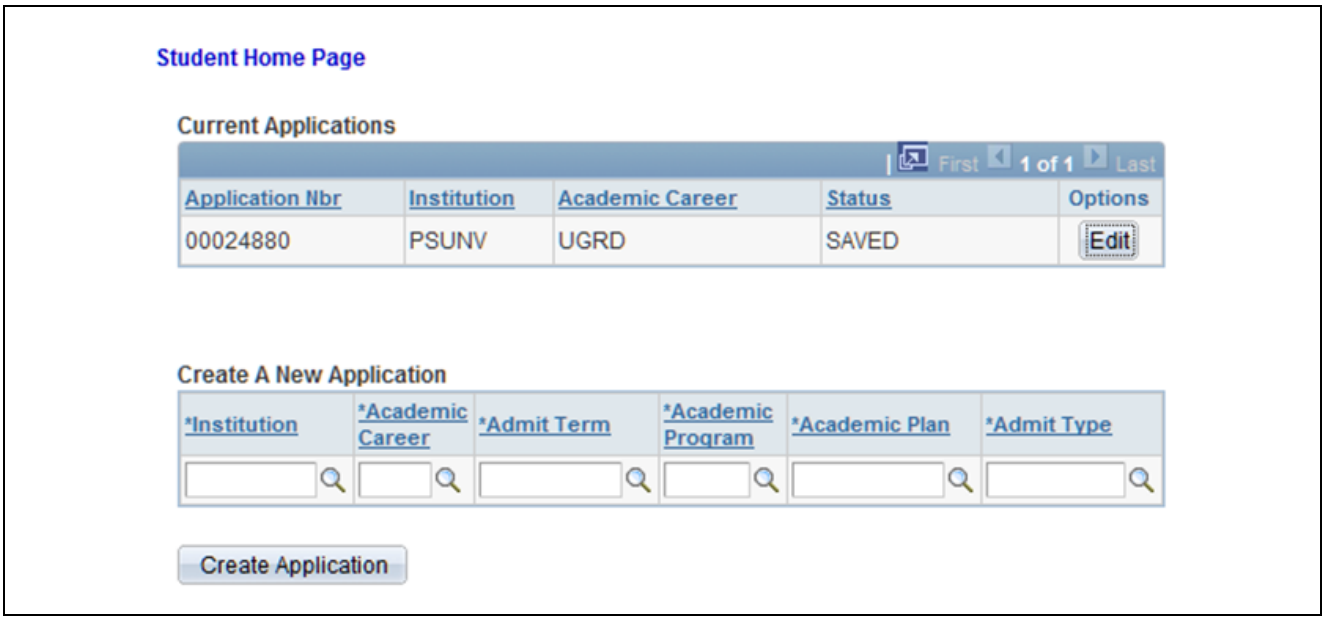

Application Home page displaying one saved application

2. When the applicant clicks the Edit button, the system invokes the SAD_GETAPPL service operation.

Note. The service operation SAD_GETATTCH also gets fired. SAD_GETATTCH will retrieve any attachments that the applicant submitted in an earlier session.

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3. When the applicant clicks the Edit button, the system displays the first of six pages that the applicant uses to fill out or correct any previously entered data for the application. At this point, the applicant can fill out the application.
4. The applicant can repeat the above steps as many times as he or she would like until the application is finally submitted.

Editing Existing Multiple Applications and Reviewing Multiple Application Statuses

Steps:

1. The applicant signs into the institution's Admissions Application home page. The system invokes the SAD_GETAPPLS service operation. This service operation returns all the applications that pertain to the applicant. This time, let us assume that there are several applications in various states and statuses.
2. The Current Applications grid displays all the applications of the applicant. Let us assume that from this list of applications, one application has been *Submitted*. Depending on how you have defined how the application is to be treated upon submission, the application can either be in *Submitted* or *Posted* status. If the application is in *Submitted* or *Posted* status, the only action available to the applicant is to view that specific application (the applicant cannot edit the application).

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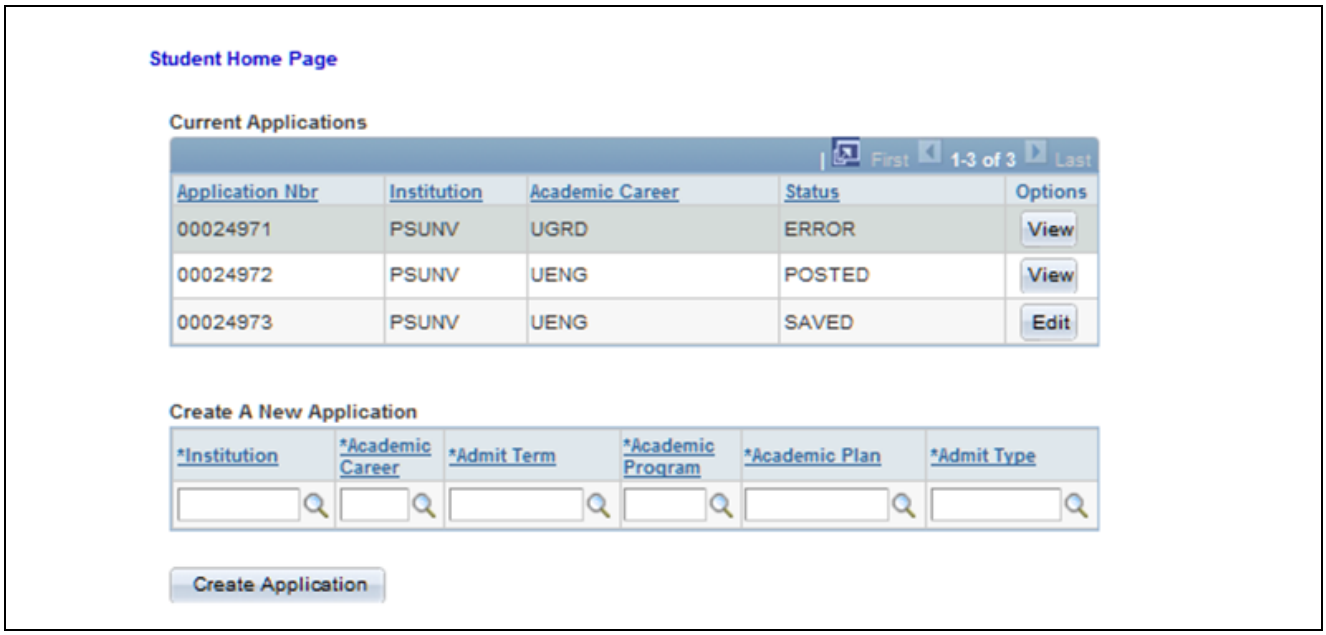

Application Home page with multiple applications

3. If the applicant clicks the View button for the submitted or posted application, the Application View page (SAD_OLA_VIEW) appears. This page presents in a display-only, linear format, all of the information the applicant submitted. If the applicant wants to update this application, the Application View page requests the applicant to contact the Admissions office to initiate any updates. When the applicant clicks the View button, the system invokes the SAD_GETAPPL service operation.

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Your application has been submitted and can no longer be updated. If changes are required, please contact the Admissions Office.

Basic Information

Legal First Name	Jane
Legal Middle Name	Mary
Legal Last Name	Smith
Name Suffix	
Preferred First Name	Lola
Date of Birth	01/01/1960
Birth Country	USA United States
Birth City	San Diego
Birth State	CA California
Gender	Female

Citizenship Information

Country	USA United States
National ID	557453578

Military Information

Military Status	No Military Service

Permanent Address

Country	USA United States
Address 1	110 First Street
Address 2	
Address 3	
City	Northridge
State	CA California
Postal	91324
County	Los Angeles

Application View page (1 of 3)

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Mailing Address

Country	USA United States
Address 1	12 Main
Address 2	
Address 3	
City	Belford
State	NJ New Jersey
Postal	07718
County	

Phone and Email Information

Home Phone	818/555-1234
Mobile Phone	888/555-1212
Personal Email	Jsmith123@oracle.com

Emergency Contact Information

Contact Name	John Smith
Relationship	Parent

Emergency Contact Address Information

Country	CAN Canada
Address 1	1000 Skippy Lane
Address 2	Unit A
Address 3	
Address 4	
City	Gray Creek
Province	BC British Columbia
Postal	VOB1S0

Emergency Contact Phone Information

Primary Phone	250/888-4785
Mobile Phone	250/818-4569

Application View page (2 of 3)

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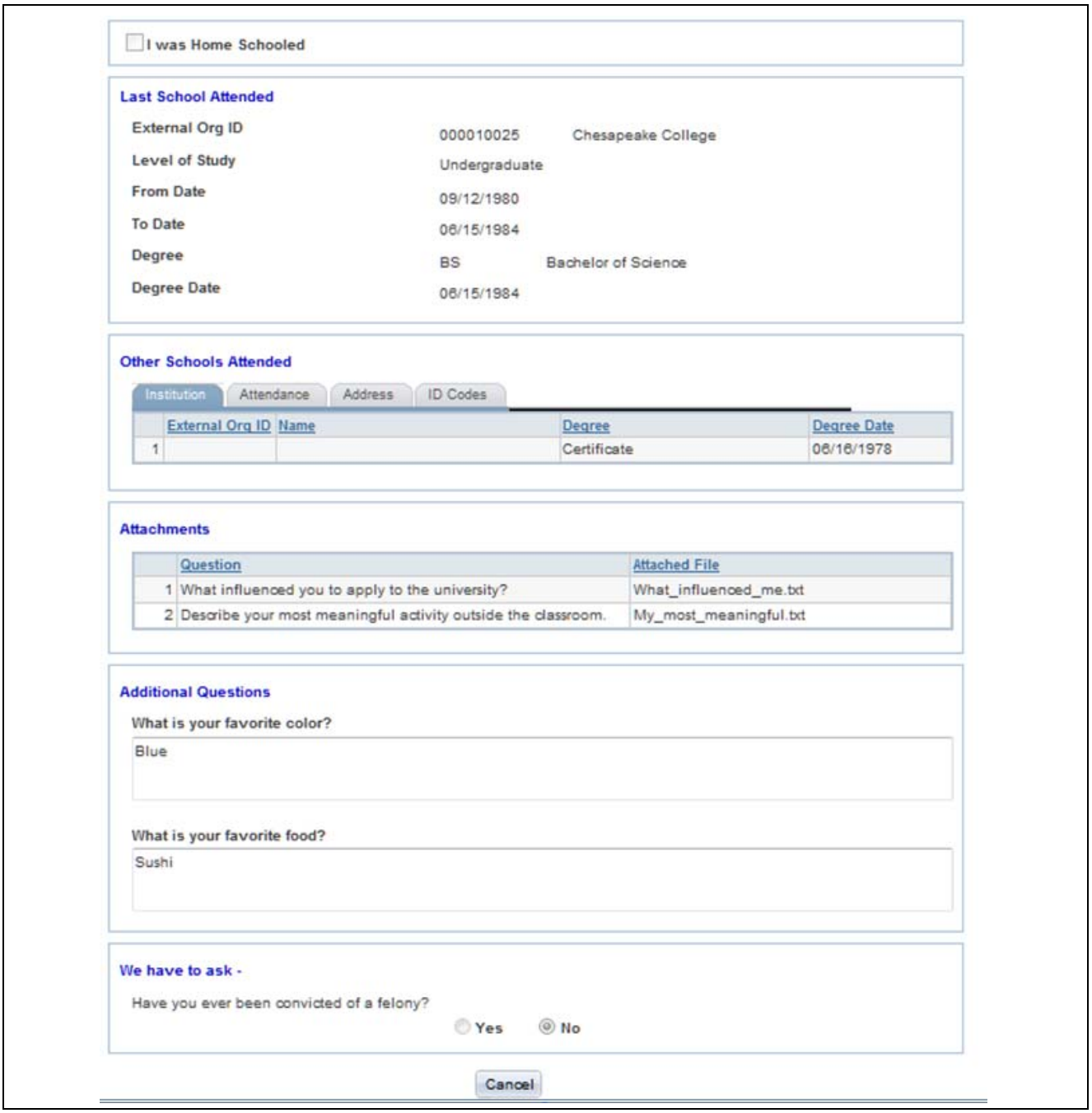

Application View page (3 of 3)

Note. Notice that External Org ID and Name are blank in the Other Schools Attended section. This is because the applicant indicated that he or she was unable to locate the school from the External Org ID list and the School Setup page does not have a default External Org ID.

4. For the remaining application(s) that have yet to be submitted, the applicant can update them as outlined in the previous Editing Existing Application subsection.

SOLA Pages for Entering Application Data

This subsection discusses the six SOLA pages that the applicant can use to enter application data.

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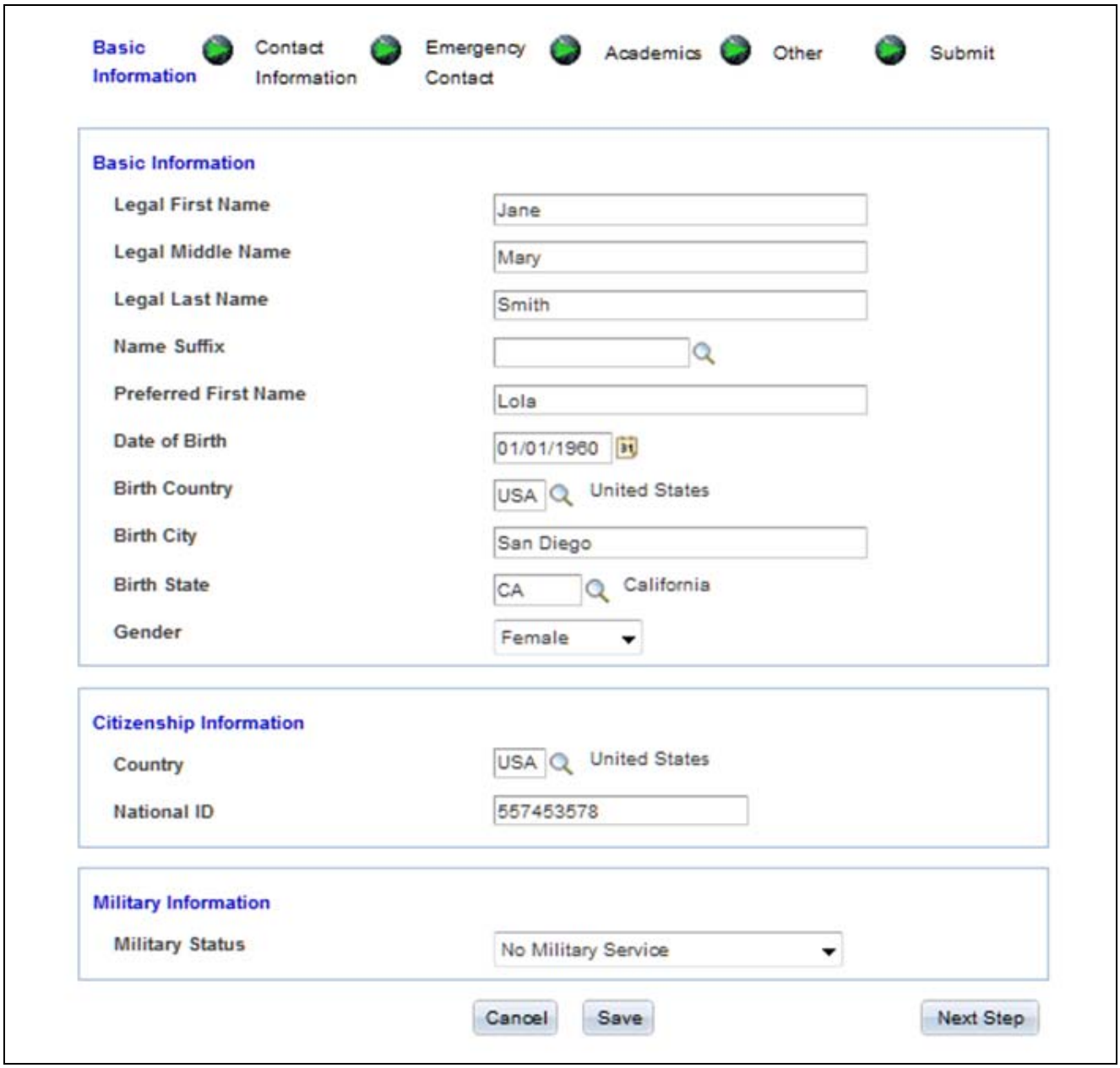
Basic Information page (SAD_OLA_BASIC)

This is an example of the Basic Information page:



Basic Information page

- This SOLA page captures basic biographical data (that is, name, gender, and birth information). The system saves the legal name entered here with the name type of *Primary*. If the applicant enters a name in the Preferred First Name field, an additional row is written to the SCC_STG_NAMES with a name type of *Preferred*.
- When the applicant accesses this page for the first time, the page hides the National ID field. When the applicant enters a value for Country, the system executes the *determineNIDType* method. This method determines whether to display the National ID field based on the setup within NID_TYPE_TBL.

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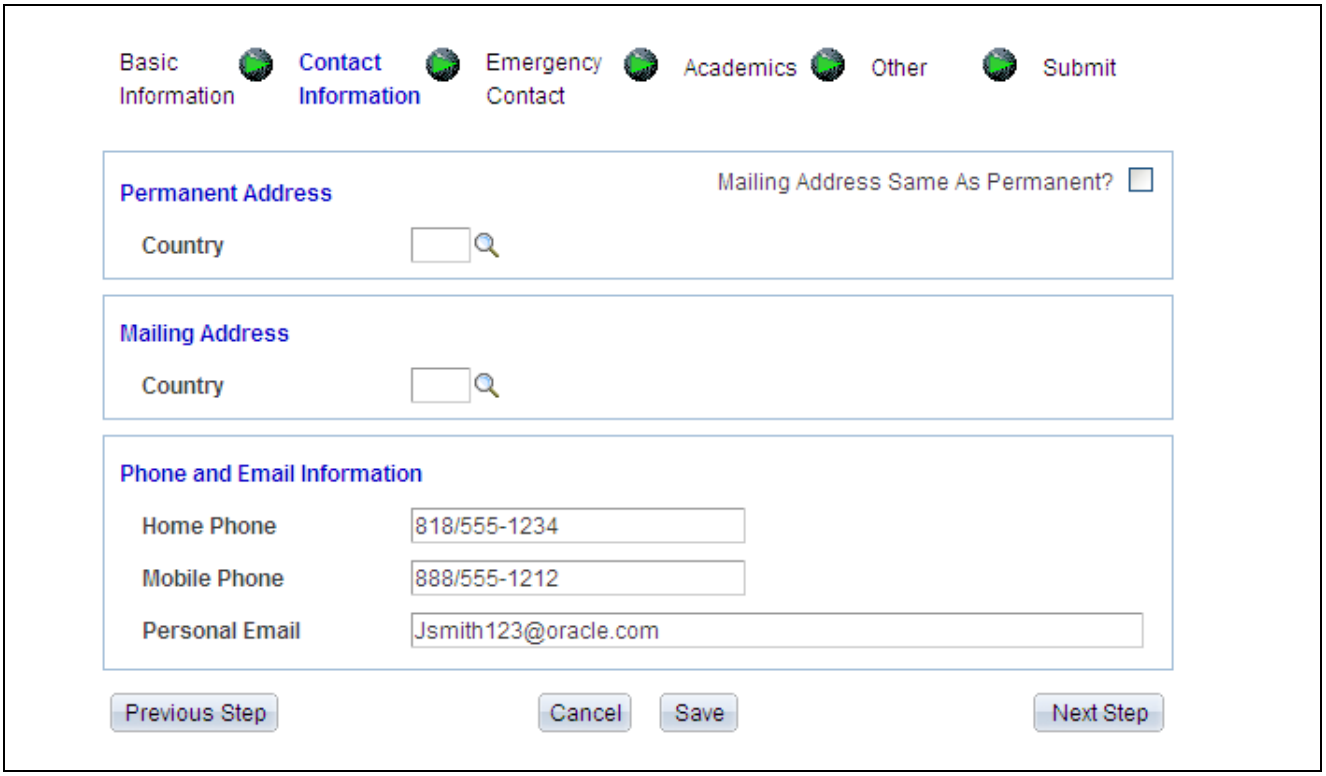
Note. If the National ID field appears, then the page applies the validation associated with that country's national ID number during the save process.

Contact Information page (SAD_OLA_CONTACT)

This is how the system presents the Contact Information page when the applicant accesses it for the first time. Note that the page hides the permanent and mailing address fields:



Contact Information page

- The page hides the address fields to support address formats based on a specific country. SOLA supports address formats for the following countries:
  - (ARG) Argentina
  - (AUS) Australia
  - (BRA) Brazil
  - (CAN) Canada
  - (CHN) China
  - (FRA) France
  - (IND) India
  - (SNG) Singapore
  - (USA) United States
- When the applicant selects anyone of these countries, SOLA will display the address format specific to that country:

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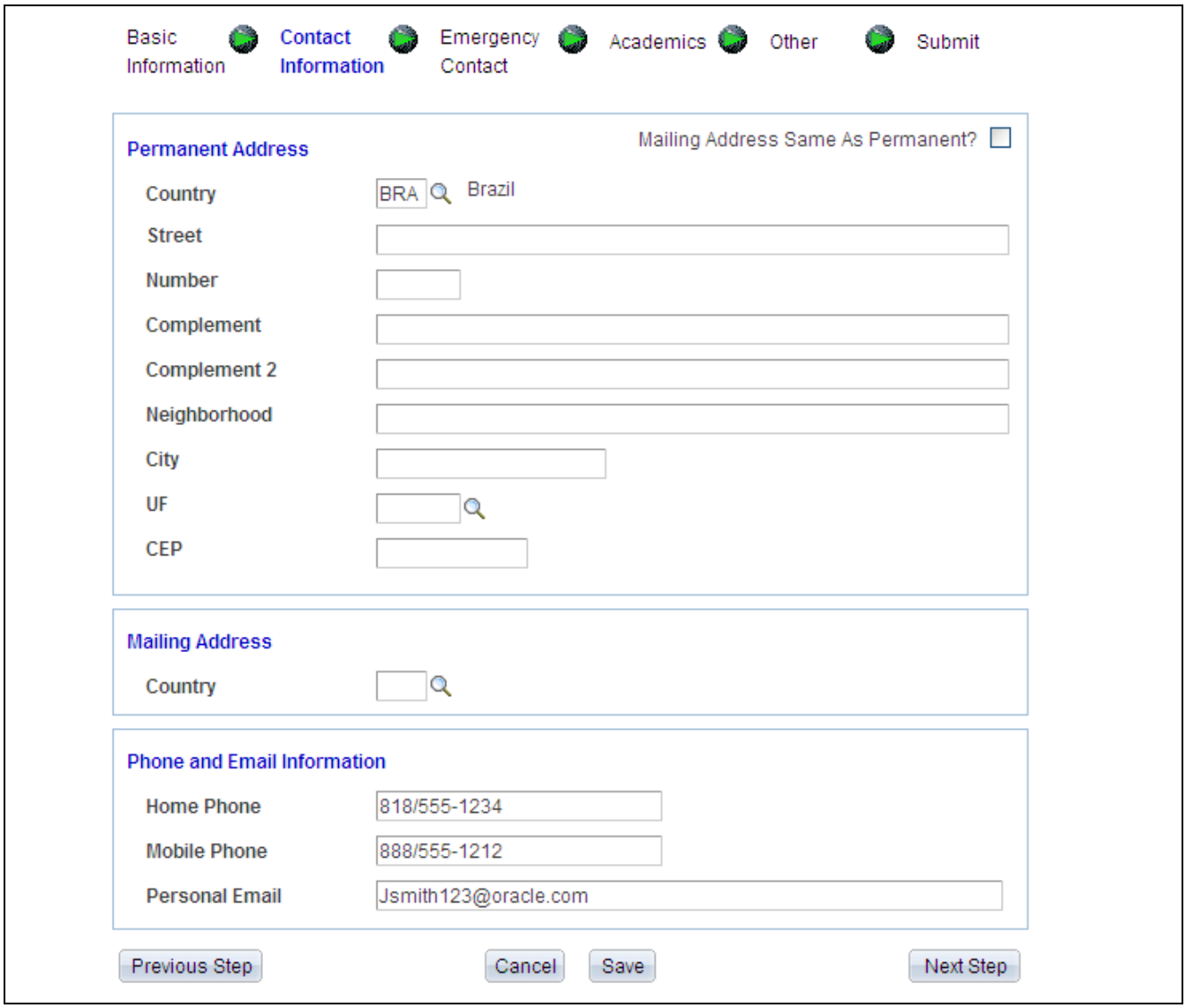

Contact Information page for a particular country

- If the applicant selects a country other than those mentioned previously, the page renders a default address format.
- To copy the permanent address values to the mailing address fields, the applicant can select the Mailing Address Same as Permanent check box. When the applicant selects this check box, the system executes the *copyPermAddressToMailAddress* method to copy the values supplied in the Permanent Address fields to the Mailing Address fields. After copying, the page hides this check box. However, on any subsequent return to this page, the check box will again appear.

Note. If the applicant changes the country value for any of the address types, this SOLA page will blank out any previously saved address information for that address type. The handling of name, address and other personal information in SOLA represents design examples of how delivered web services can support a user interface.

Emergency Contact page (SAD_OLA_CONTACT)

This is an example of the Emergency Contact page:

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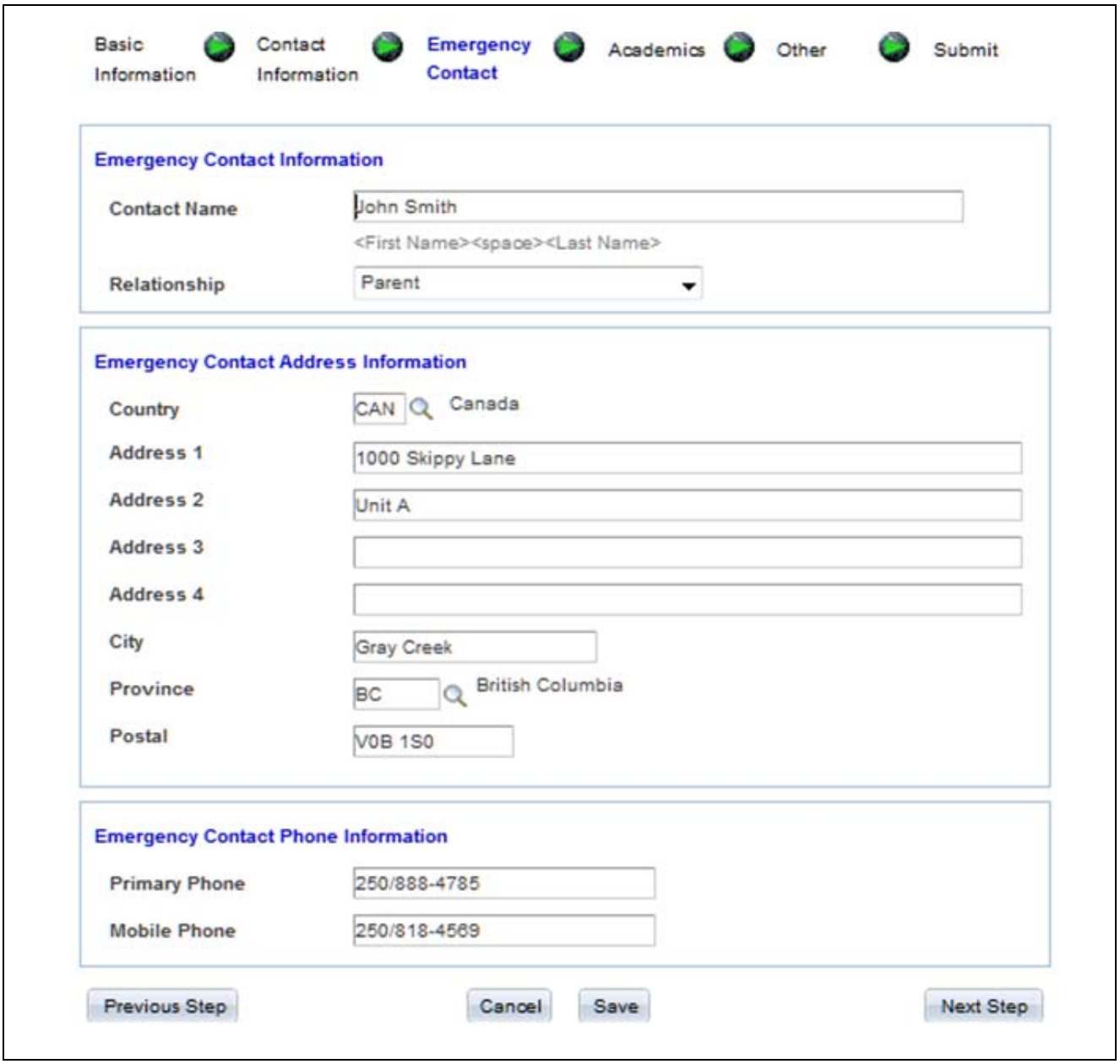

Emergency Contact page

The address functionality on this page is similar to the Contact Information page.

Academics page (SAD_OLA_ACAD)

This is an example of the Academics page:

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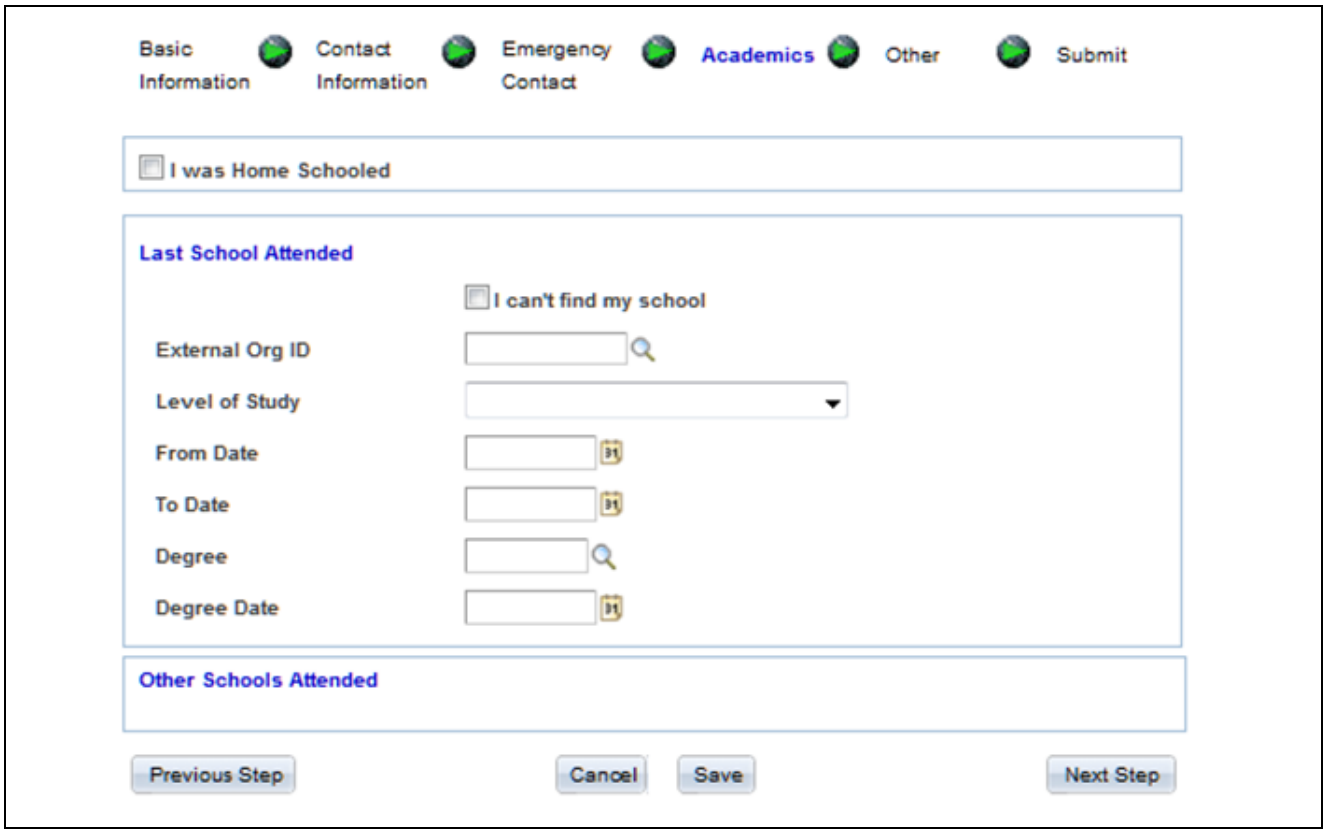

Academics page

- This is an example of how the Academics page is displayed when an applicant accesses it for the first time. This is done to preserve a predefined sequence numbering schema associated with the admissions application history.
- If the applicant indicates that he or she was home schooled, the system writes a row to SCC_STG_ACADHST with a sequence number of one. Information pertaining to the Last School Attended will be assigned a sequence number of 2. The system will increment the sequence number for each Other Schools Attended record that the applicant adds.
- If the applicant does not indicate that he or she was home schooled, then the information pertaining to the Last School Attended will get a sequence number of one.
- If the applicant is unable to find his or her institution in the External Org ID drop down list, then they have the option of indicating such by selecting the I can’t find my school check box. When the applicant selects this check box, the page displays additional fields that the applicant can use to specify the school details.

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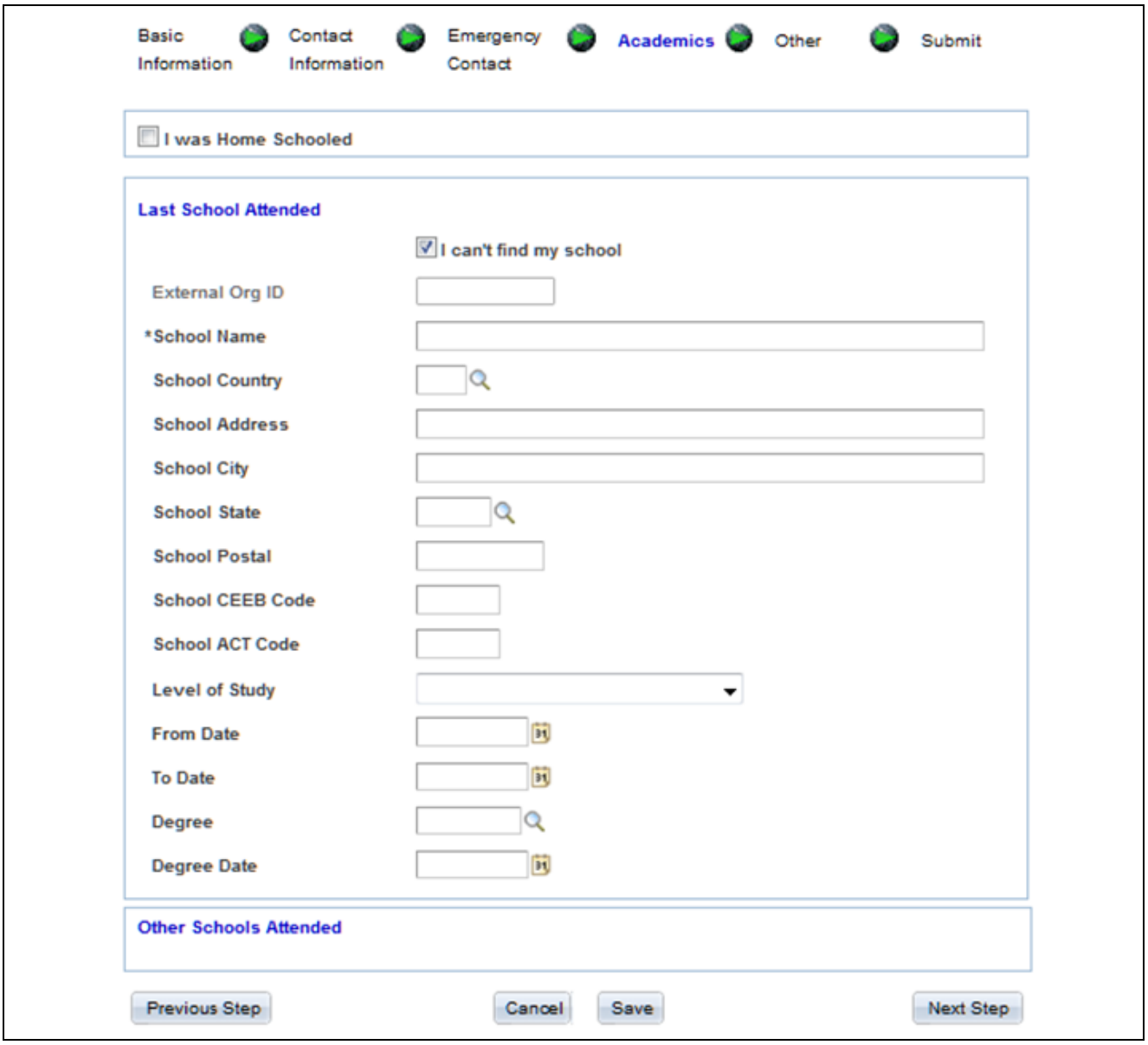

Academics page with the I can't find my school check box selected

- When the applicant selects the check box, the system disables the External Org ID field and marks the School Name field as a required field. All other fields are optional.

Note. Suppose you have indicated that the application requires manual reconciliation for both home school and unlisted school on the School Setup page of the Application Configuration component. In such a case, if the applicant indicates that he or she was either home schooled or is unable to locate his or her institution or indicates both, then the application will get a status of *Error* when submitted.

Suppose you have specified a default External Org ID for both home school and unlisted school on the School Setup. In such a case, if the applicant indicates that he or she was either home schooled or is unable to locate his or her institution or indicates both, then the system automatically populates the default External Org ID when application is submitted.

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Note. If the applicant provides more than one school identified as *I can't find my school*, only the first will receive the default Org ID and the subsequent schools Org IDs will be set to blank and a reconciliation error will be generated.

- If the applicant has entered the level of study and the dates attended, the system writes a row to SCC_STG_EXACDDT.

Note. The applicant must supply all three values: level of study (external career), and both to and from dates in order to write to SCC_STG_EXACDDT.

- If the applicant has entered a degree and the date in which the degree was obtained, the system writes a row to SCC_STG_EXTDEGR.

Note. The applicant must supply both the degree and degree date values to write to SCC_STG_EXTDEGR.

- When the applicant enters an External Org ID or a school name, then the fields in the Other Schools Attended group box become available. Same rules mentioned previously apply to the fields in the Other Schools Attended group box
- The applicant can enter as many additional Other Schools Attended records by clicking the plus sign button. Conversely, clicking the minus sign button will delete an Other Schools Attended record.

Note. The system performs duplicate checking on Org IDs when the applicant supplies both a *Last School Attended* and at least one *Other Schools Attended*. In addition, SOLA checks for duplicate Org IDs in the *Other Schools Attended* when more than one is supplied by the applicant.

Other page (SAD_OLA_OTHER)

This is an example of the Other page:

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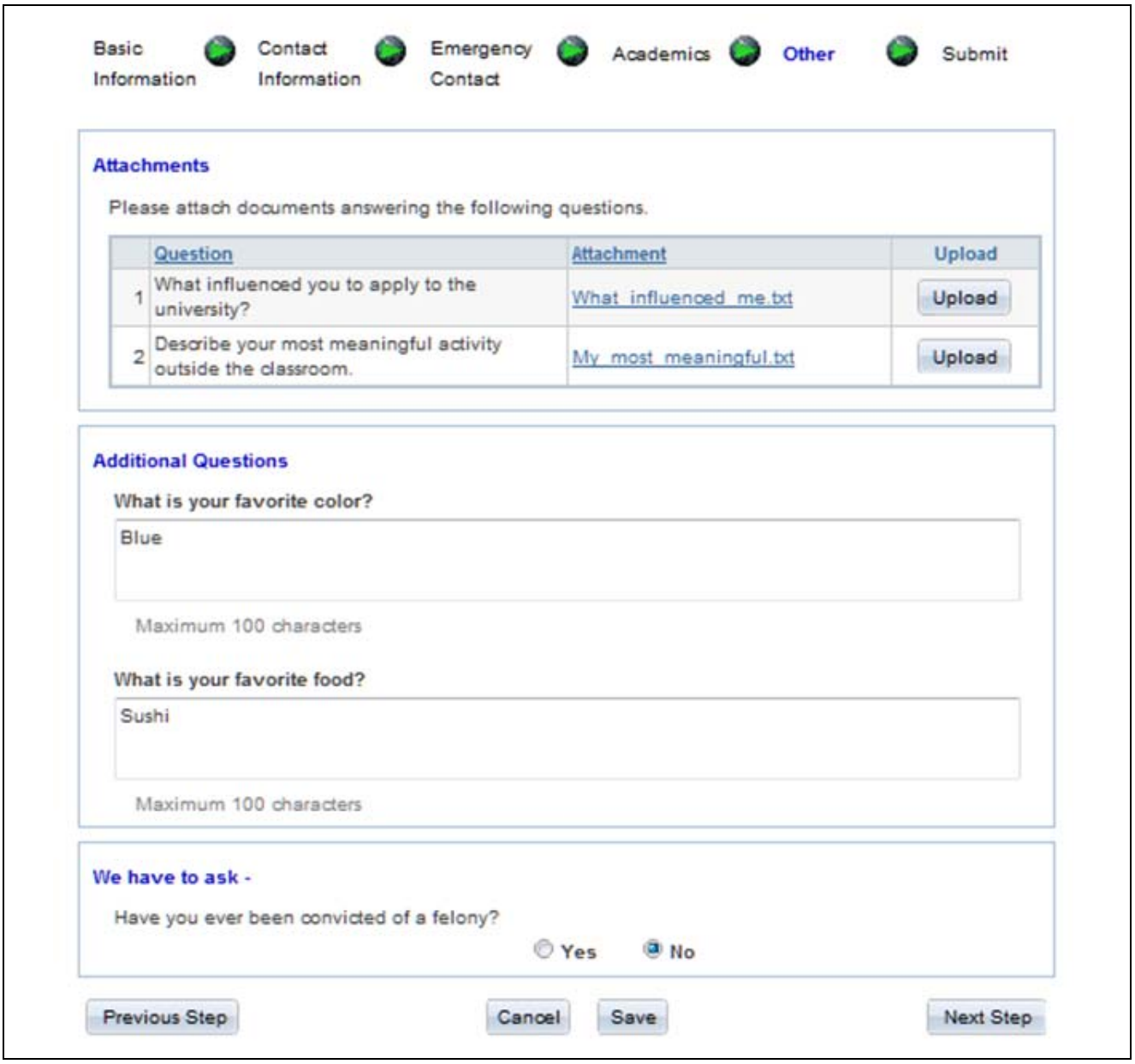

Other page

- The questions that appear in the Attachments and Additional Questions group boxes are derived from the PeopleTools message catalog.
- The Additional Questions group box uses the sample Q&A Application Extension entity.

Submit page (SAD_OLA_SUBMIT)

This is an example of the Submit page:

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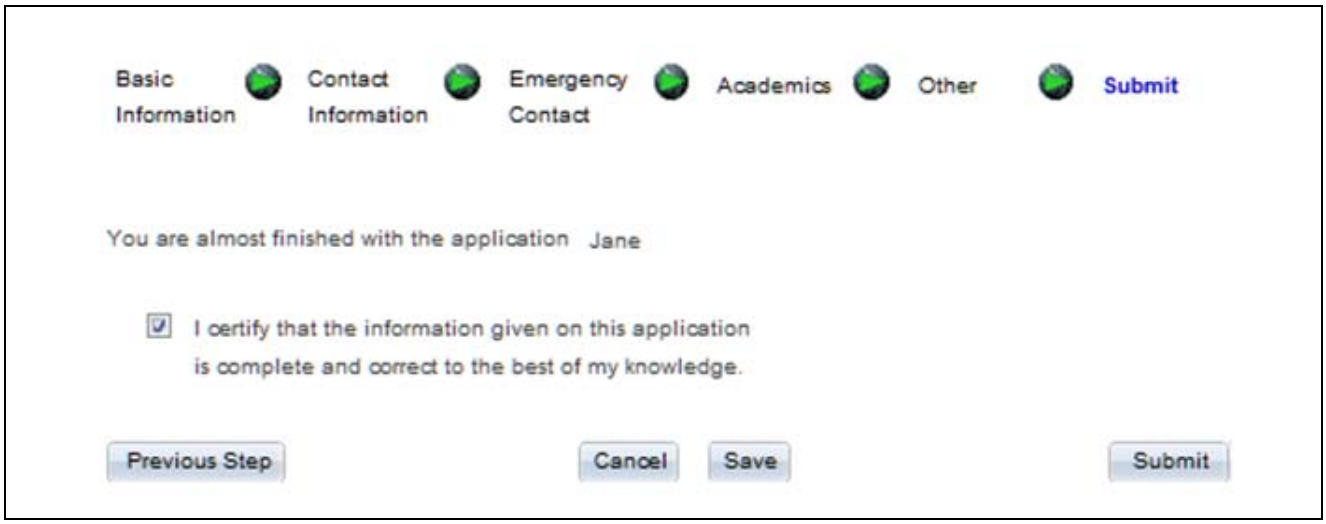


Submit page

- When the applicant electronically signs the application (that is, selects the I certify check box on the Submit page), the Submit button becomes available.
- Clicking the Submit button submits that application. Depending on how you have defined the application to be processed during submission, the application can take many routes. Refer to the "Setting Up Application Processing Centers" section in the Building Your Recruiting Structure chapter to fully understand the submit process.

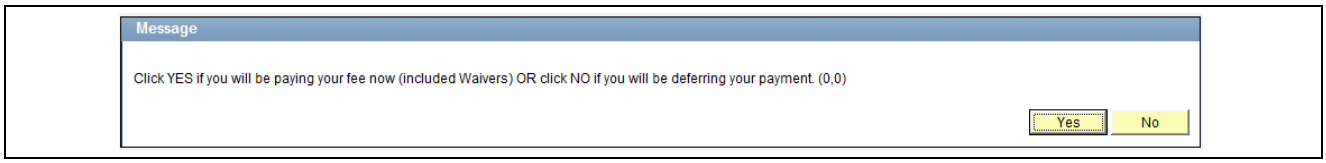
  See *PeopleSoft Recruiting and Admissions 9.0 PeopleBook*, Building Your Recruiting Structure, "Setting Up Application Processing Centers" to understand application fee processing on submission.

Note. The handling of attachments, additional questions, and messaging regarding the completion of an application illustrated by SOLA represents design examples of how delivered web services can support a user interface and these design examples are not intended to be deployed for your applicants.

Paying Application Fees or Requesting Fee Waiver After Submitting Application

Steps:

1. Once the applicant completes the application and is ready to submit the application, the applicant clicks the Submit button.
2. If a fee is required with the option to pay later as defined on the Application Center Table setup page, the applicant is presented with a message to pay the fee/request a waiver now or defer payment until later. If the student selects the Yes button, they are taken to the Fee/Waiver Page. If they select the No button, they are taken to the Submit Page.



Message for payment options

3. If a fee is required as defined on the Application Center Table setup page, the applicant is presented with the Fee/Waiver page (SAD_OLA_FEECALC), where he or she may request a waiver or pay the fee. Actions allowed on this page are governed by the options defined on the Application Center Table setup page.

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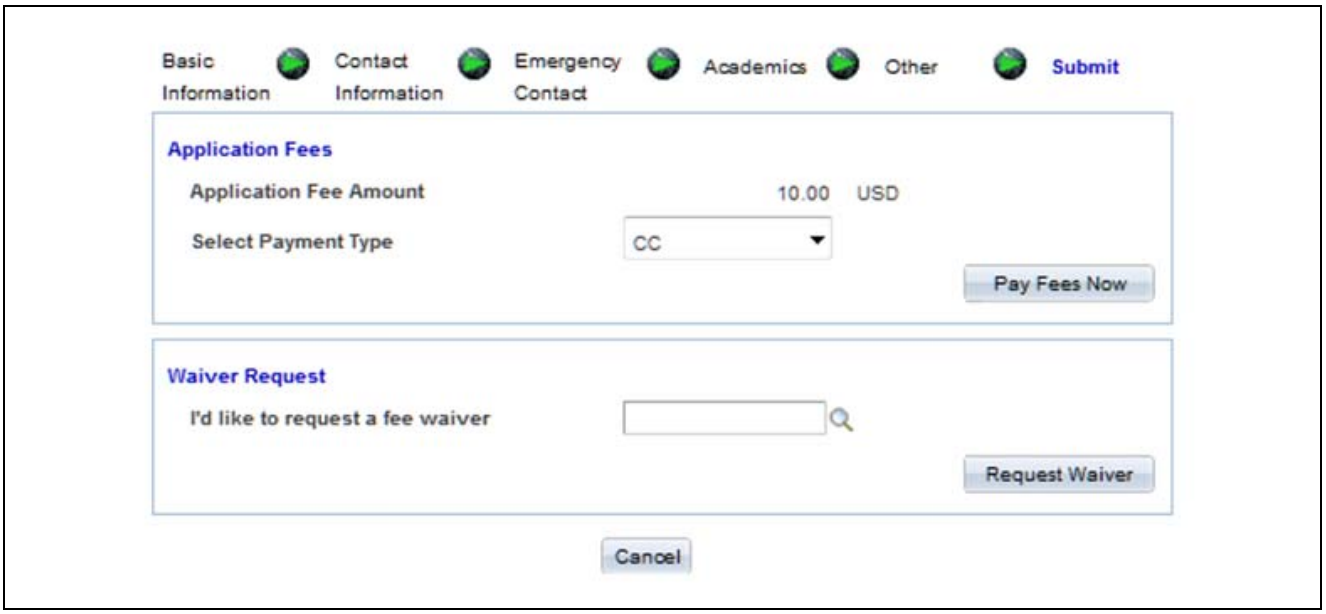

Fee/Waiver page (Paying Application Fees)

4. When the applicant clicks the Pay Fees Now button, the system invokes the SSF_INITIATE_EPAYMENT service operation. The system uses the information from the response of this service operation to redirect the applicant to the third party payment provider, where additional payment information is collected to pay the fees. This is accomplished by setting the value of the HTML_AREA on page SAD_OLA_3RDPARTY to the value of the element SCC_HTML_STRING from the SSF_INITIATE_EPAYMENT response. A transfer to page SAD_OLA_3RDPARTY will launch the applicant to the third party payment provider. For an example of the SCC_HTML_STRING, refer to the “Payment Integration Web Services Operations” section of the Using Admissions Application Web Services chapter.

Note. The third party payment provider will require return URLs in order to navigate the applicant back to Campus Solutions after processing the transaction. These return URLs should correspond to the Weblib functions defined in the Hosted Payment Adapter Settings. The system delivers iScripts for SOLA to handle the post back from the third party payment provider.

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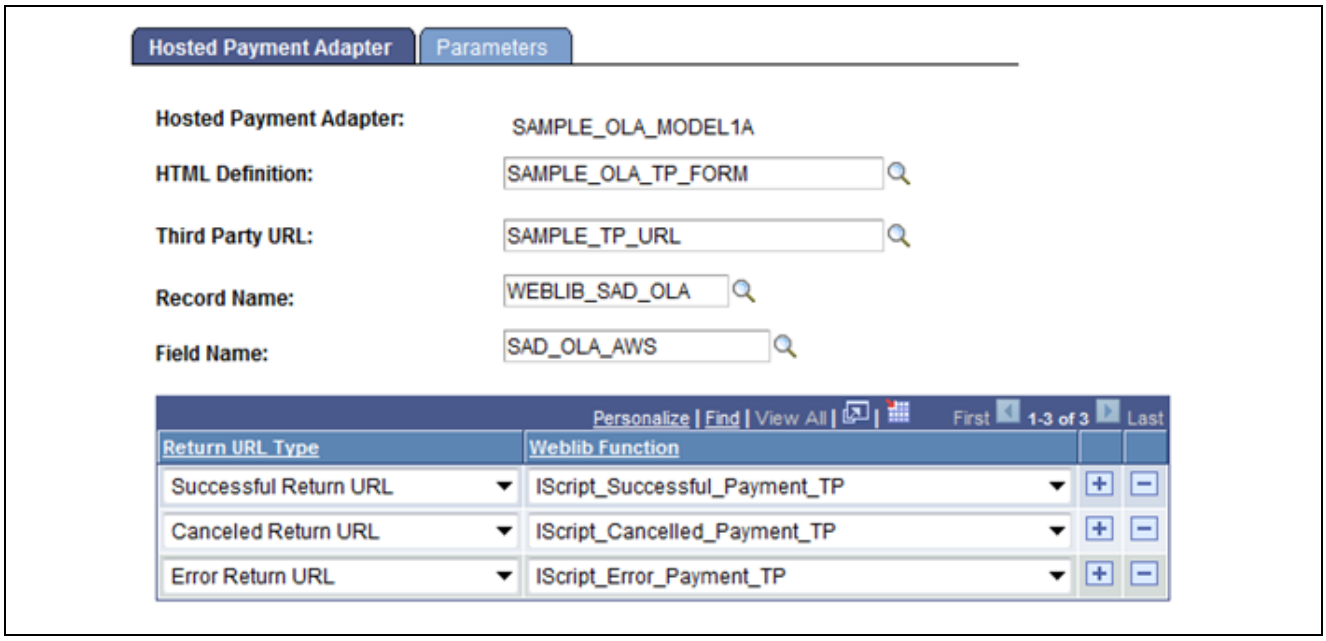
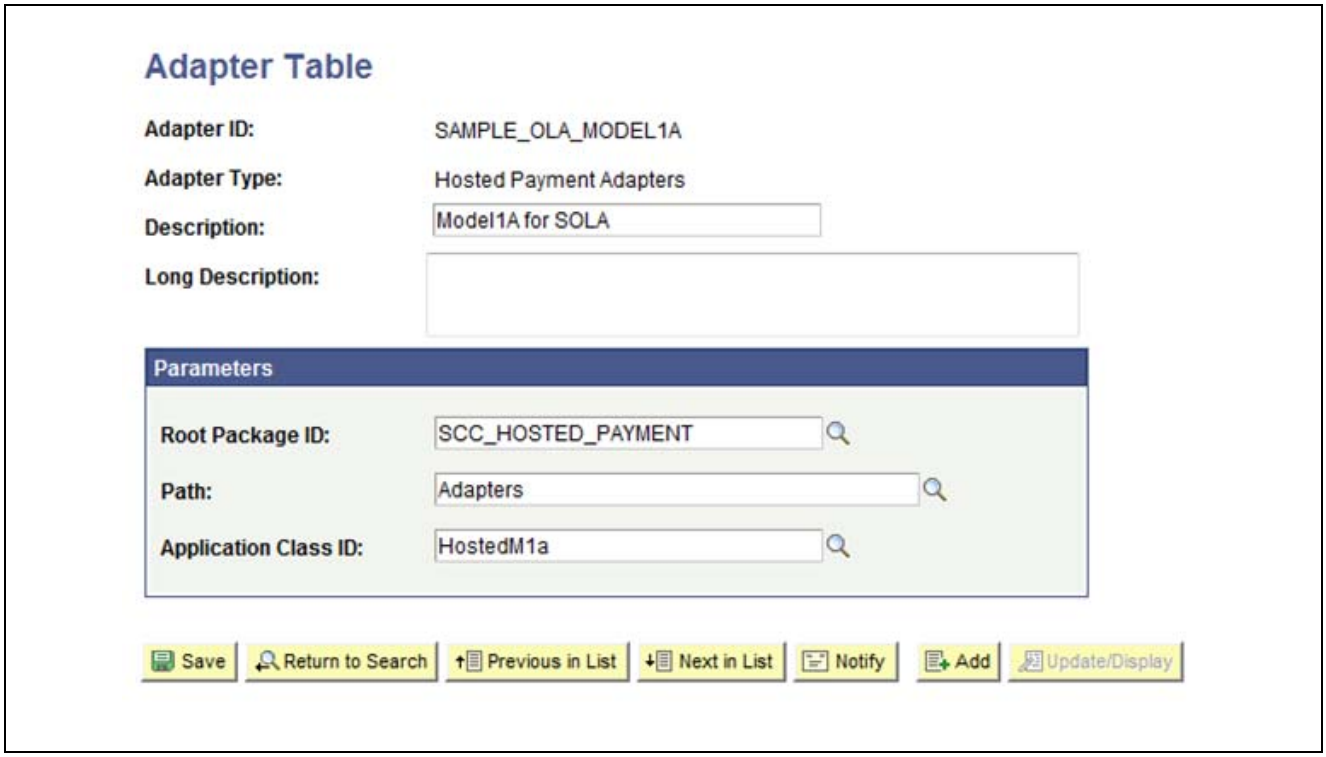


Hosted Payment Adapter page

In the above example graphic, the success URL can be defined in the third party payment provider site as *https://schoolserver/psc/ps/EMPLOYEE/HRMS/s/WEBLIB_SAD_OLA.SAD_OLA_AWS.FieldFormula.IScript_Successful_Payment_TP*.

Important! If the school is already using the Hosted Payment feature in Self Service Make a Payment or Cashiering, a new Hosted Payment Adapter needs to be created in order to use the delivered iScripts for SOLA. The new Hosted Payment Adapter may point to the same Application Class ID the school is already using.



Adapter Table page

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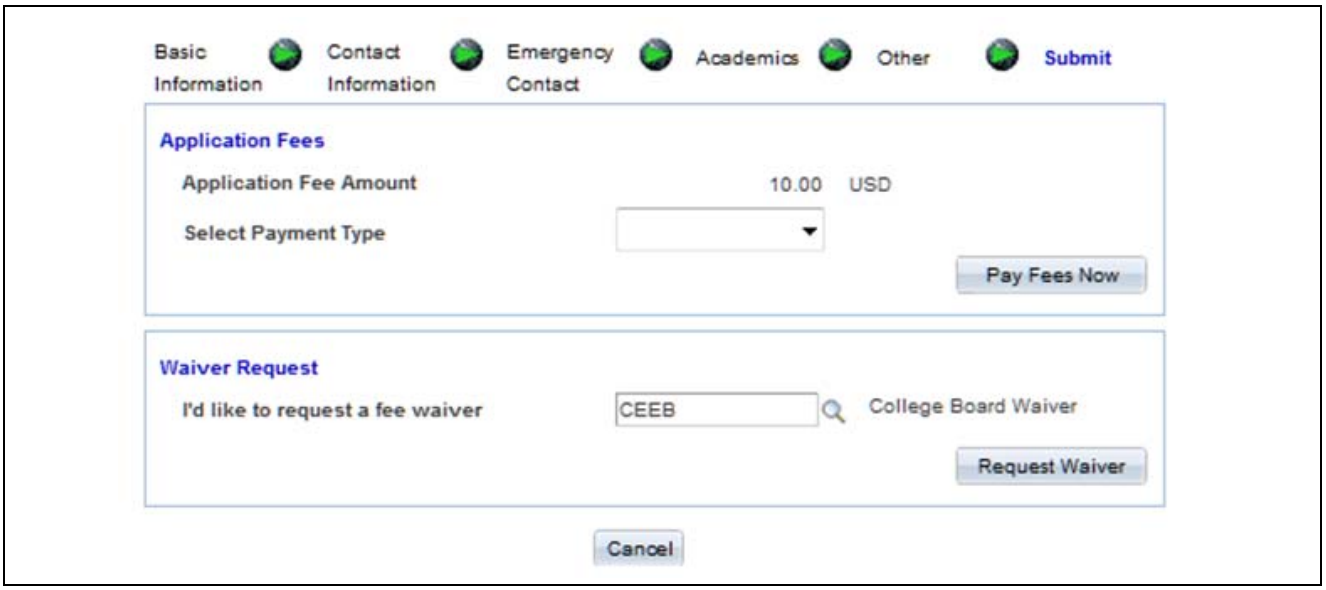
For more details, refer to the Campus Solutions 9.0 Electronic Payment Integration Developer's Reference Guide on how to set up the Hosted Payment Adapter Setting. In addition to creating a new adapter, the new iScripts will need to be defined in the permission list security for the applicant.

The new SOLA iScripts will invoke the SSF_COMPLETE_EPAYMENT service operation. This service operation will authorize the payment and complete the application.

5. If a fee waiver option has been selected within the Application Center Table component, then the applicant can request a waiver and click the Request Waiver button.



Fee/Waiver page (Requesting Waiver)

Note. The display of captured data and the use of application fee payment illustrated by SOLA represent design examples of how delivered web services can support a user interface.

Data Flow

This section discusses how the SOLA pages and the SQL tables exchange application data.

Campus Solutions SOLA Pages to SQL Tables

Flow:

1. The applicant enters data into the SOLA page.
2. The fields in each SOLA page reflect one or more SQL views. Each view represents the specific type of data that SOLA is collecting (that is, address, emergency contact, academic data and so on.). The views themselves are not traditional database views, but *hollow views* that exist merely to collect and display the data on the SOLA page.
3. When the applicant clicks the Save or Submit button, SOLA copies the data within each view to the view's corresponding entity in the Entity Registry. This is how SOLA processes the data into the entity:
   - The method associated with each entity performs any necessary data validation.
   - The toXMLNode method then converts the entity content into an XML representation that the SOAP-based web services require.

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- Once all the data is entered in the SOLA pages and their respective views have been processed, SOLA sends the XML request and invokes the SAD_SAVEAPPL web service operation.
- The SAD_SAVEAPPL service operation then takes the XML request string and deconstructs it node by node back into an entity.
- As each node is filled up with data, SAD_SAVEAPPL invokes the corresponding Entity Registry ID.

Note. SOLA may look like any standard component in Campus Solutions, but the key concept to understand is that the data entered on the SOLA pages never directly interact with the SQL table(s) as it does in other Campus Solutions pages.

SQL Tables to Campus Solutions SOLA Pages

Flow:

1. The applicant signs into institution's Admissions Application home page and accesses the SOLA component.
2. Assuming that this is not the first time the applicant is visiting the Admissions Application page, SOLA invokes the SAD_GETAPPLS web service operation. The SAD_GETAPPLS_RESP XML message contains all the key values for the applicant's applications.
3. This *key* information is presented in a grid format for the applicant to choose from, the applicant also has the option to create an entirely new application.
4. The applicant clicks the View button or the Edit button for an existing application and SOLA passes the key values for that specific application to the SAD_GET_APPL web service operation.
5. The SAD_GETAPPL_RESP XML response message contains all the data (both constituent and academic) associated with that specific application.
6. SOLA deconstructs the XML response message node by node and moves this deconstructed message to the corresponding SQL Views within the application page(s) in SOLA.
7. Once the XML response has been deconstructed, SOLA displays the page(s) to the applicant.

SOLA Setup and Verification

This section discusses the required setup and the verification to ensure that SOLA is configured properly.

Step 1: Update Admissions URL

Procedure:

1. Access the URL Maintenance component (PeopleTools, Utilities, Administration, URLs).
2. Enter *SAD_APPL_ATCH* in the Search by field:

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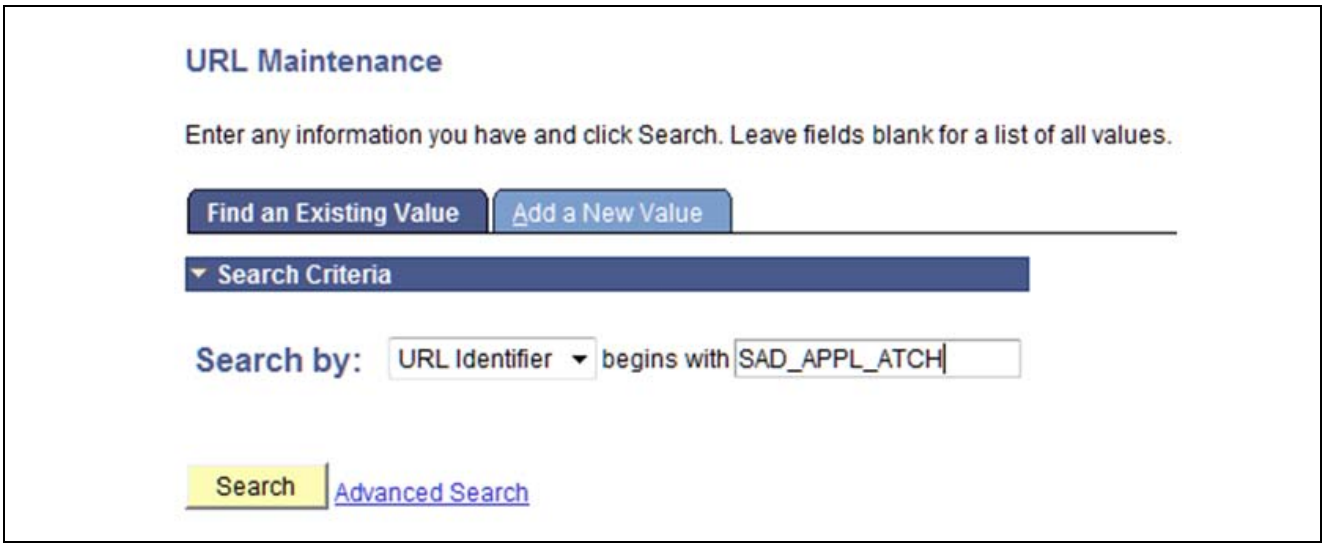


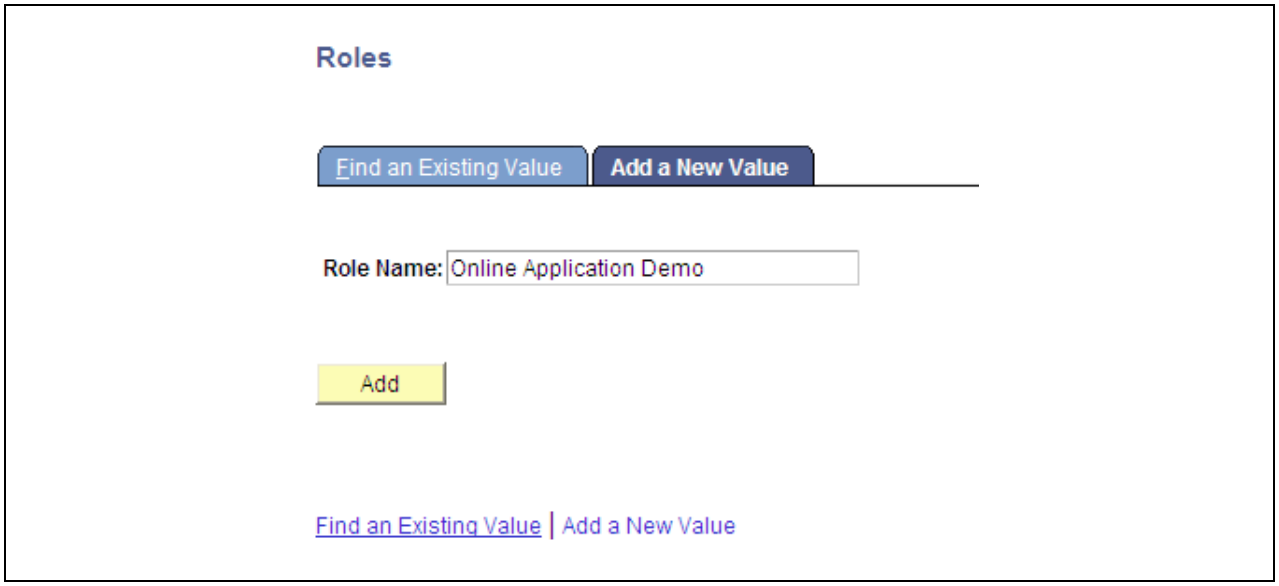
Searching for SAD_APPL_ATCH

3. Click the Search button.
4. Verify whether a URL value (either a File Server or Database) has been supplied.

Step 2: Create New Roles

Procedure:

1. Access the Roles component (PeopleTools, Security, Permissions & Roles, Roles).
2. For *New User Registration*, see the Using New User Registration Framework chapter for setup instructions on how to add role name *CS - NUR GateKeeper*.
3. For *SOLA*, complete the following steps:
   a. Add role name as *Online Application Demo*:



Adding a role for SOLA

   b. Click the Add button.

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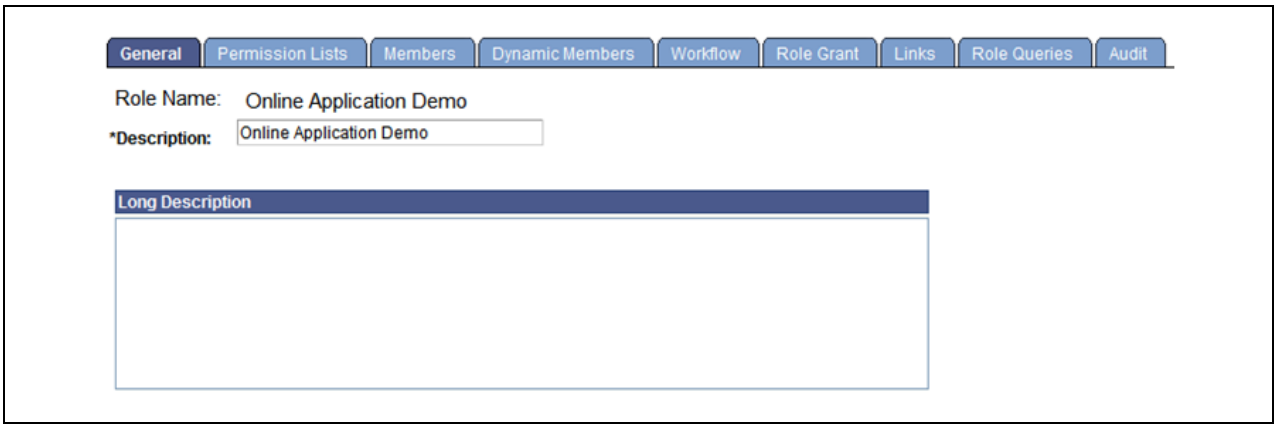
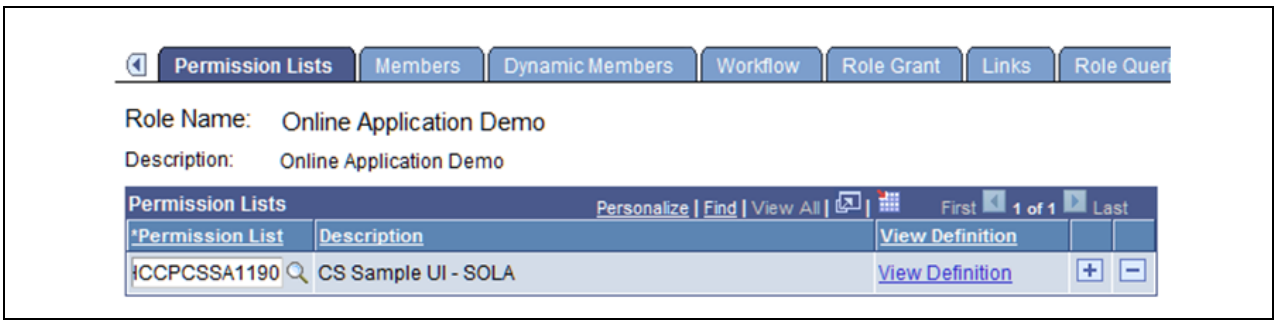
c. Add the description as *Online Application Demo*:



Adding description for the SOLA role

d. Add the permission list *HCCPCSSA1190*:



Adding a permission list for the SOLA role

Step 3: Create New User Accounts

Procedure:

1. Access the User Profiles component (PeopleTools, Security, User Profiles).
2. Add *SCC_GUEST*.

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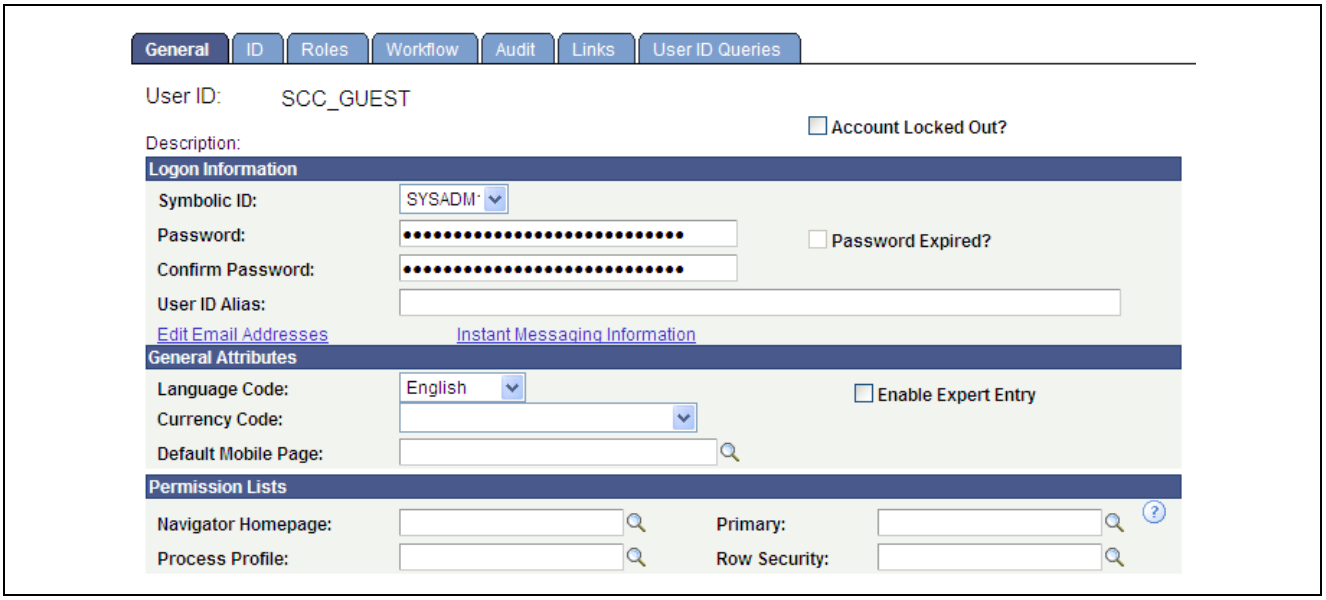
Adding the guest account

3. On the General page, enter values as shown in the following graphic:

Note. For password, choose a password of your choice.



General page

4. On the ID page, enter values as shown in this graphic:

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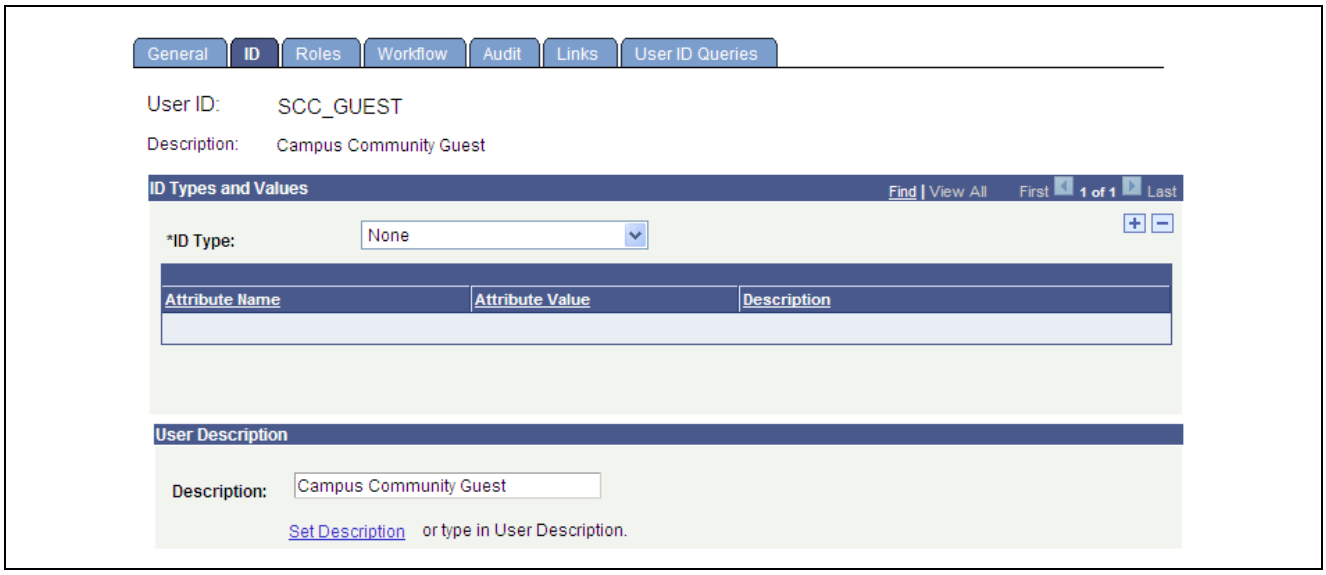
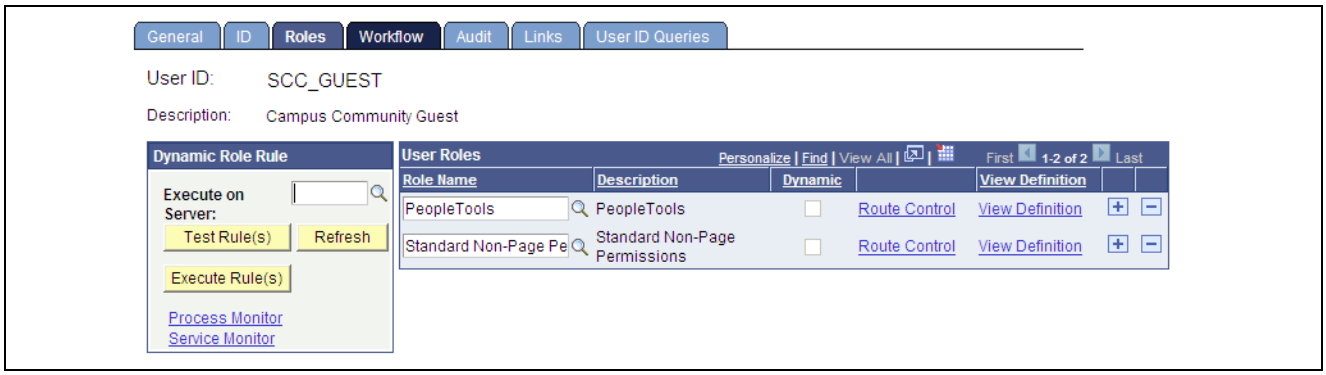


ID page

5. On the Roles page, enter values as shown in this graphic:



Roles page

6. Save your changes.

Step 4: Set Up Integration Broker (IB)

Verify that minimal IB setup and service configuration is performed.

Verifying IB Gateway

Procedure:

1. Access the Gateways component (PeopleTools, Integration Broker, Configuration, Gateways).
2. Select that Integration Gateway ID for which the Local Gateway is set to *Y*.
3. Verify that the URL is pointing to the correct gateway.
4. Ensure that the gateway can be pinged by clicking the Ping Gateway button. You should see this page if the gateway is pinged successfully:

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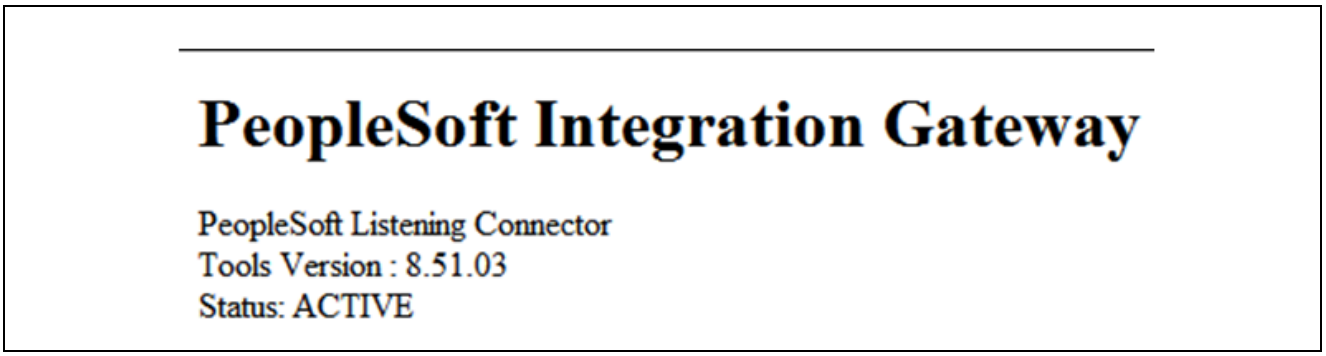

PeopleSoft Integration Gateway page

Verifying IB Nodes

Procedure:

1. Access the Nodes component (PeopleTools, Integration Broker, Integration Setup, Nodes).
2. Click the Search button and scroll through the search results list looking for the Node Name where the Default Local Node is *Y*. There should be only one default local node.
3. On the Connectors page, click the Ping Node button.
4. Verify that the Gateway ID is pointing to the local gateway that you previously just pinged. If it is not, change the Gateway ID so that it is.
5. When you click the Ping Node button, you should see *Success* in the message text.

Verifying that the Domain Status is Active

Procedure:

1. Access the Domain Status page (PeopleTools, Integration Broker, Service Operations Monitor, Administration, Domain Status).
2. Verify that the domain status is *Active*.

Verifying Service Configuration

Procedure:

1. Access the Service Configuration page (PeopleTools, Integration Broker, Configuration, Service Configuration).
2. Verify that a service configuration exists.

Note

Do not continue if any of the verification steps mentioned in this section “Step 4: Set Up Integration Broker (IB)” fail. Resolve the failed steps before continuing.

Step 5: Configure Routings

Procedure:

1. Access the Services page (PeopleTools, Integration Broker, Integration Setup, Services).
2. Generate Any to Local and Local to Local routings for the following six web service operations of the SAD_ADMISSIONS web service:

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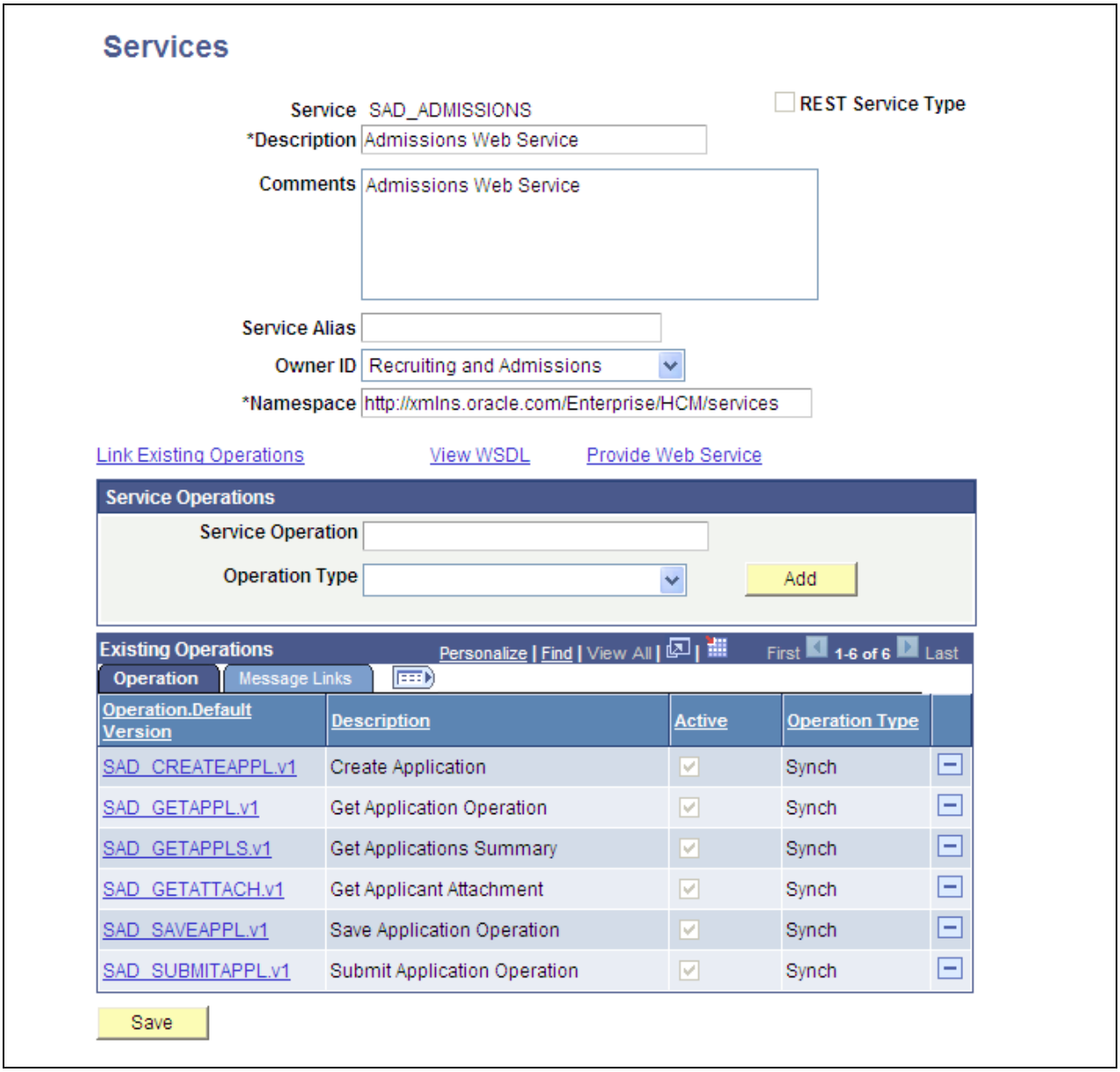
- SAD_CREATEAPPL.v1
- SAD_GETAPPL.v1
- SAD_GETAPPLS.v1
- SAD_GETATTACH.v1
- SAD_SAVEAPPL.v1
- SAD_SUBMITAPPL.v1



The six service operations of SAD_ADMISSIONS service

To generate these routings and verify that the operation status is *Active*:

1. For each operation, on the General page select both the Generate Any to Local check box and the Generate Local to Local check box.
2. Make sure that the service operation is *Active*. If the status is not active, select the Active check box.

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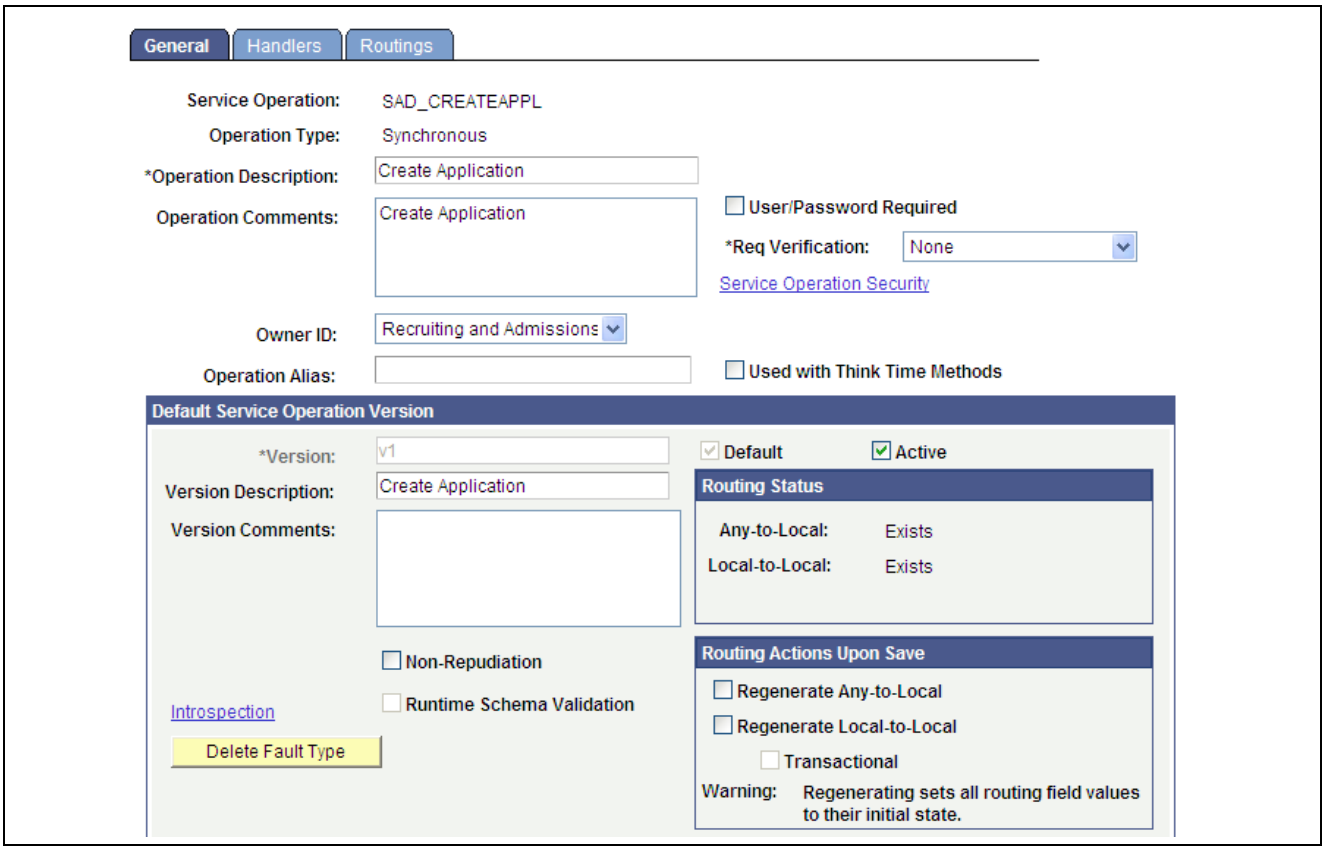
3. Save your changes. When you save, the system updates the routing status to *Exists* for both routing actions:



General page after save (1 of 2)

General page after save (2 of 2)

4. Click the Return to Service link.
5. Repeat the steps 1 through 4 for the remaining operations.

For new user registration also you must perform the same steps:

1. Access the Services page (PeopleTools, Integration Broker, Integration Setup, Services).
2. Generate Any to Local and Local to Local routings for the following two web service operations of the SCC_USERREG web service:
   - SCC_USERREG_AUTHENTICATE.v1

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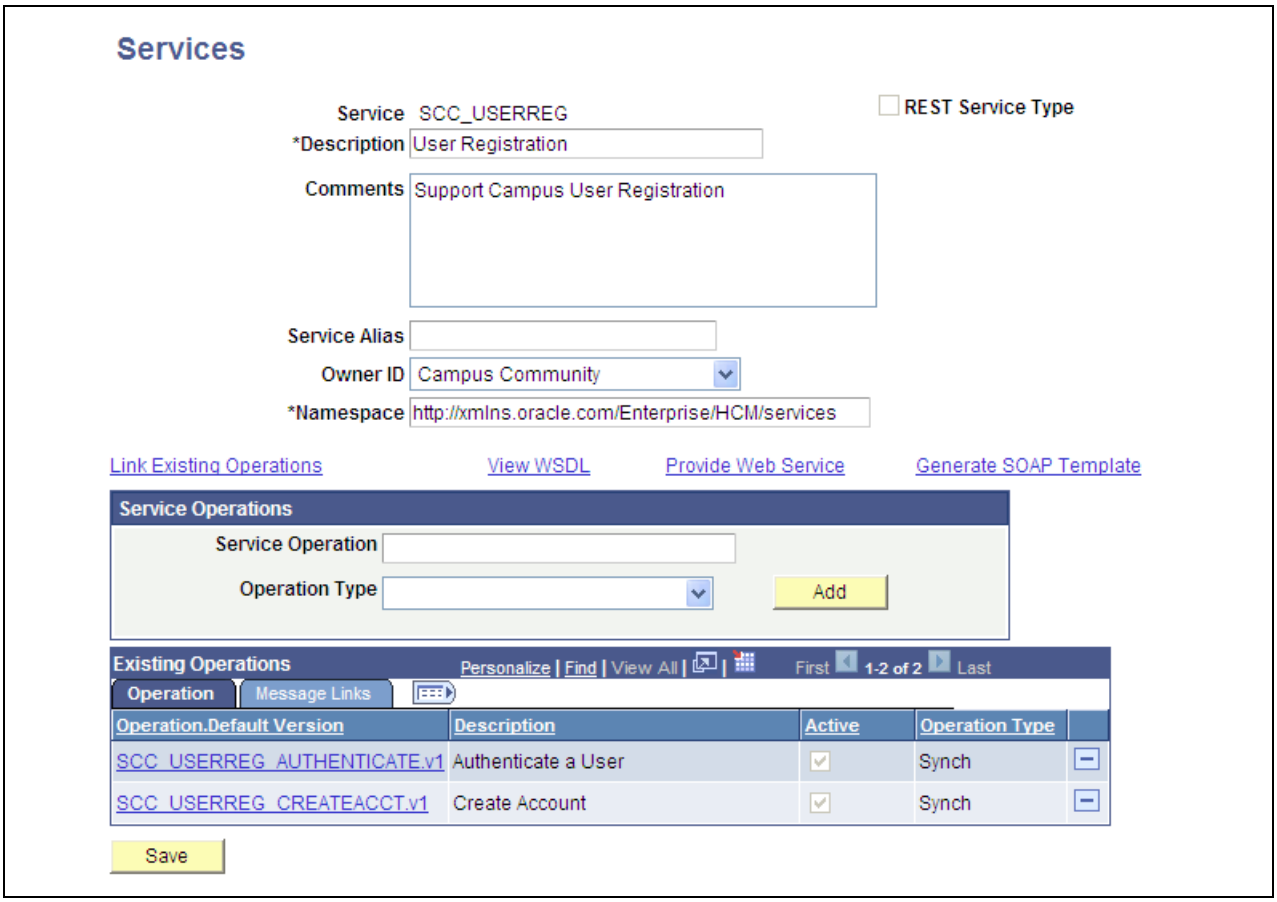
- SCC_USERREG_CREATEACCT.v1



The two service operations of SCC_USERREG service

3. Repeat the preceding steps for generating routings and ensuring that the status is *Active*.

Step 6: Set Up Integration Broker – ANONYMOUS Node

Procedure:

1. Access the Nodes component (PeopleTools, Integration Broker, Integration Setup, Nodes).
2. Search for the ANONYMOUS node name.
3. On the Node Definitions page, change the Default User ID to *SCC_GUEST*.

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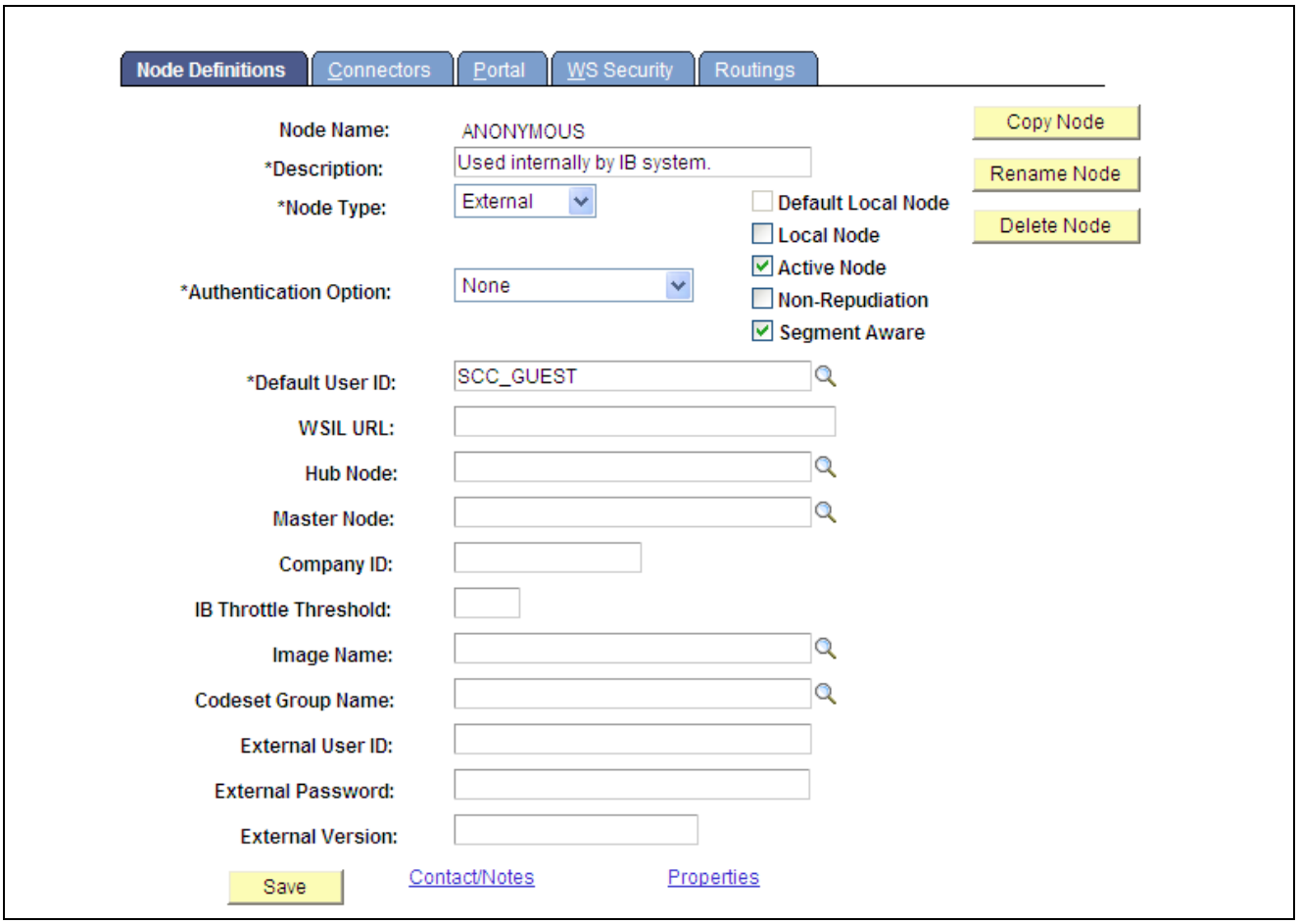

Node Definitions page

4. On the WS Security page, change the Authentication Token Type to *Username Token*.

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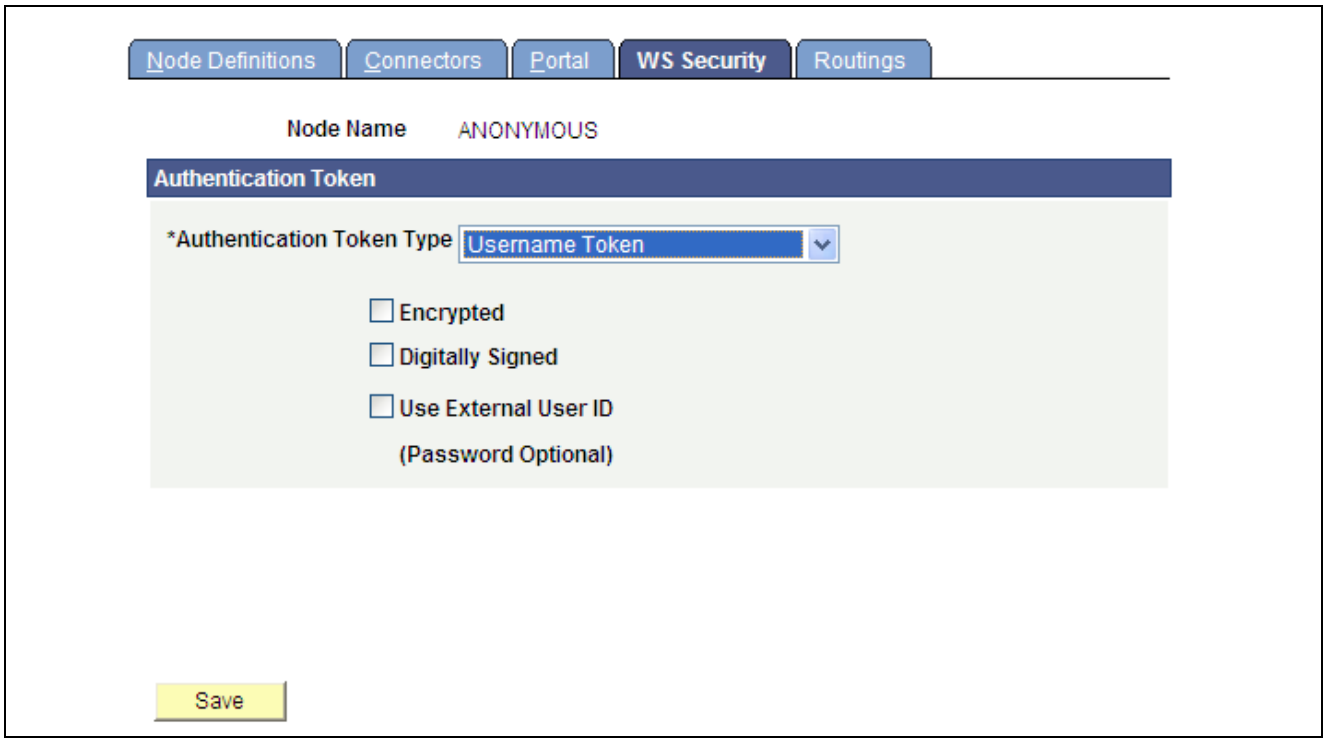

WS Security page

5. Save your changes.

Step 7: Publish Web Services

Procedure:

1. Access the Provide Web Service Wizard (PeopleTools, Integration Broker, Web services, Provide Web Service).
2. Ensure all the operations for the SAD_ADMISSIONS and SCC_USERREG web services are published.

   Search for *SAD_ADMISSIONS* service name:

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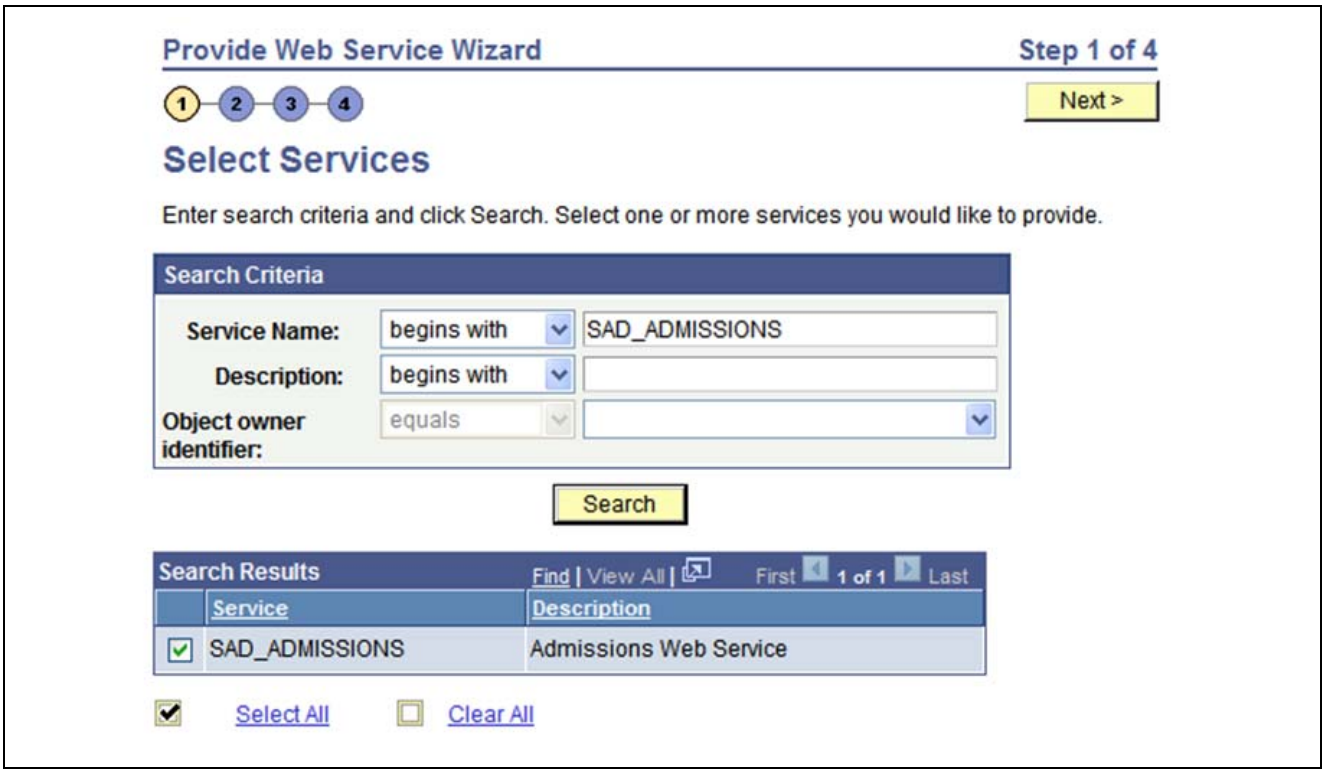
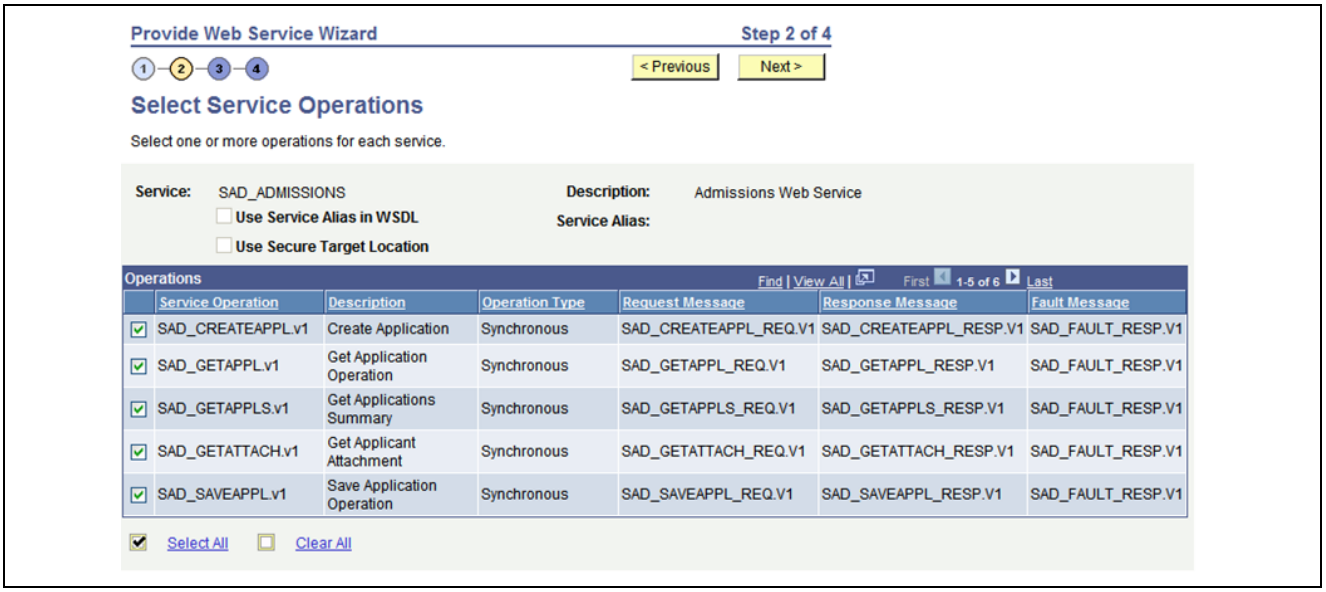


Select Services page

3. Click the Select All button and click the Next button.
4. On the Select Service Operations page, click the Select All button and click the Next button.



Select Service Operations page

5. On the View WSDL page, click the Next button.

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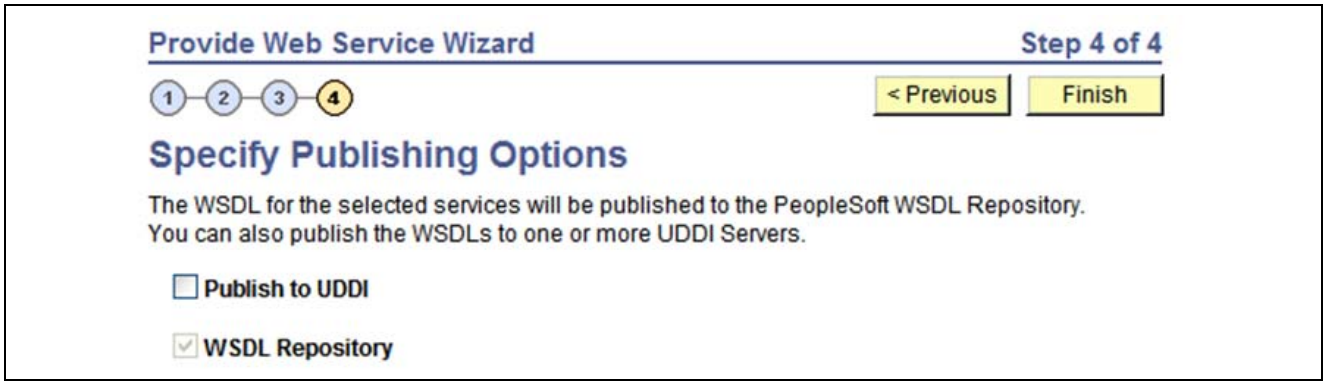
View WSDL page

6. On the Specify Publishing Options page, click the Finish button.



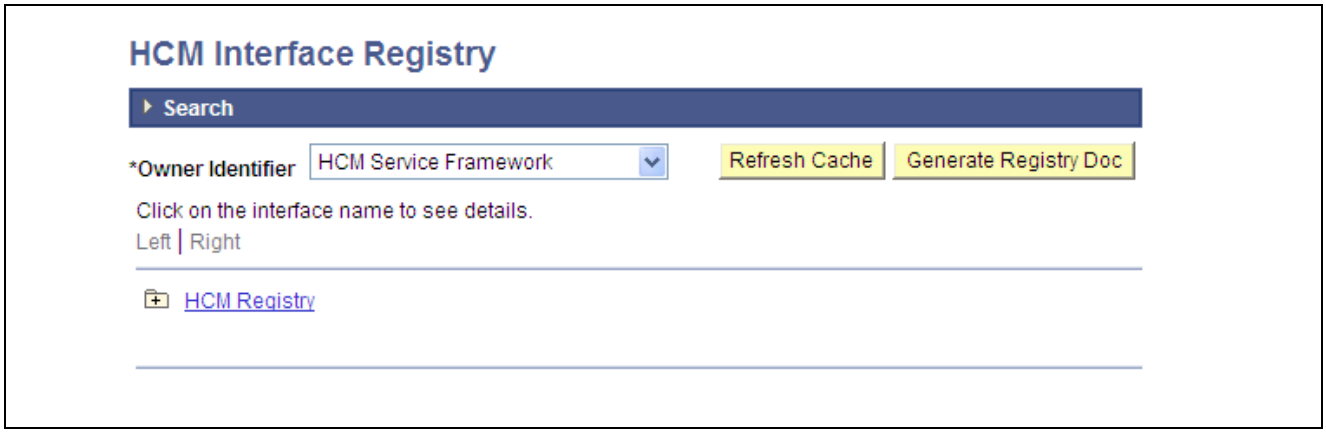
Specify Publishing Options page

7. Repeat the steps for the SCC_USERREG web service.

Step 8: Refresh HCM Registry Cache

Procedure:

1. Access the HCM Interface Registry page (Set Up HRMS, System Administration, HCM Registry, Service Registry).



HCM Interface Registry page

2. Click the Refresh Cache button.

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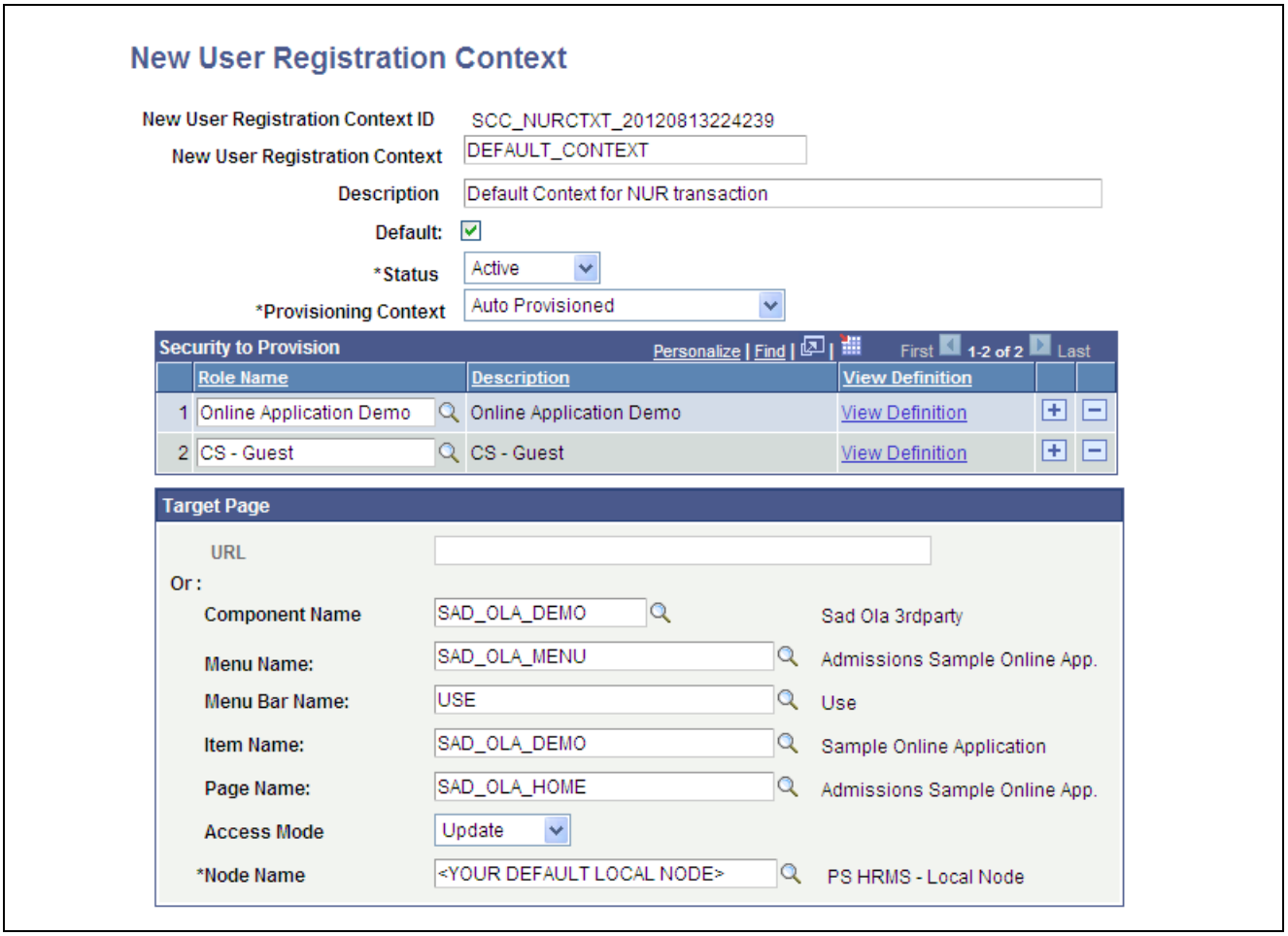
Note. The message *Processing* displays and remains on the page. There is no other message displayed.

Step 9: Set Up New User Registration Tester

Procedure:

1. Access the New User Registration Context component (Set Up SACR, System Administration, Utilities, New User Registration, New User Registration Context).
2. Click the Add a New Value tab.
3. Add the *DEFAULT_CONTEXT* New User Registration Context as shown in this graphic:



New User Registration Context for SOLA

4. Select the Default check box.
5. In the Node Name field, you must select a node marked as Default Local Node = *Y*.
6. Save your changes.

Step 10: Verifying Your SOLA Setup

Procedure:

1. Sign into Campus Solutions using your institution's master user ID and password.

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Signing into CS

2. Access the New User Registration Tester page (Set Up SACR, System Administration, Utilities, Sample User Interfaces, New User Registration Tester).

New User Registration Tester page with sign-in fields

3. Select the Need a User ID? Yes/No check box.
4. Fill out the New User Registration Tester page as shown in this figure:

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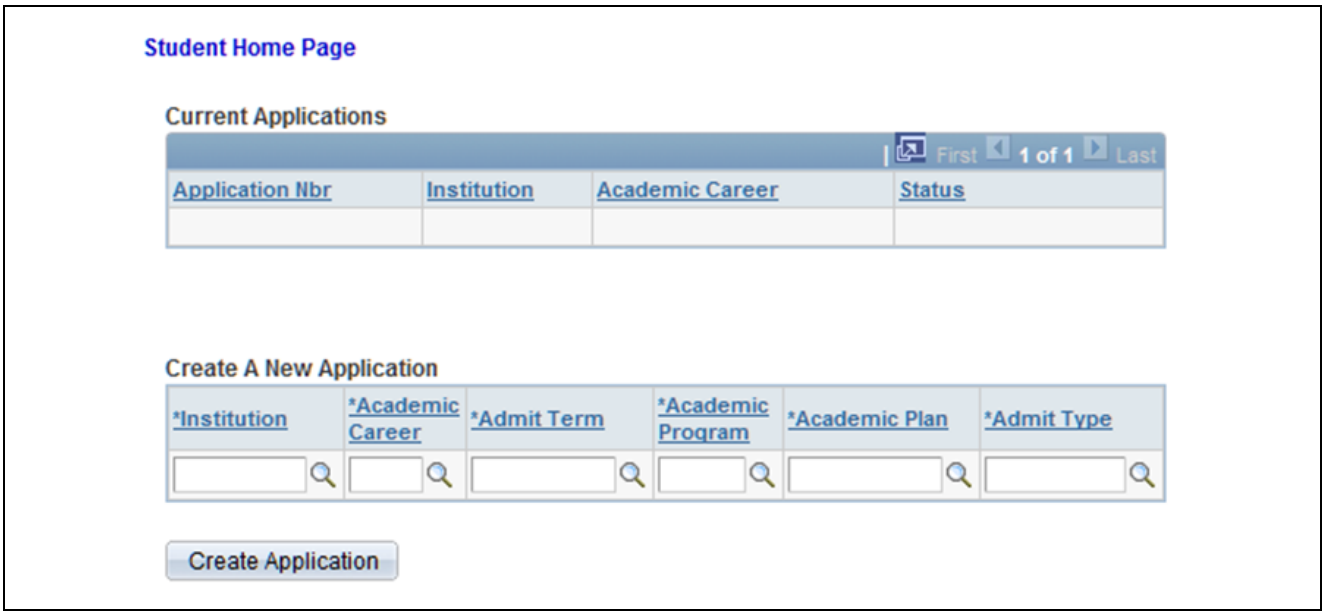
New User Registration Tester page with the filled out user registration fields

Note. For the password field, choose a password of our own.

5. Click the Create User button. On clicking this button, the system transfers you to Sample Online Application home page:



Blank Online Application Home page

6. Fill out the Create A New Application section. Select values for:
   - Institution.
   - Academic Career.
   - Admit Term.

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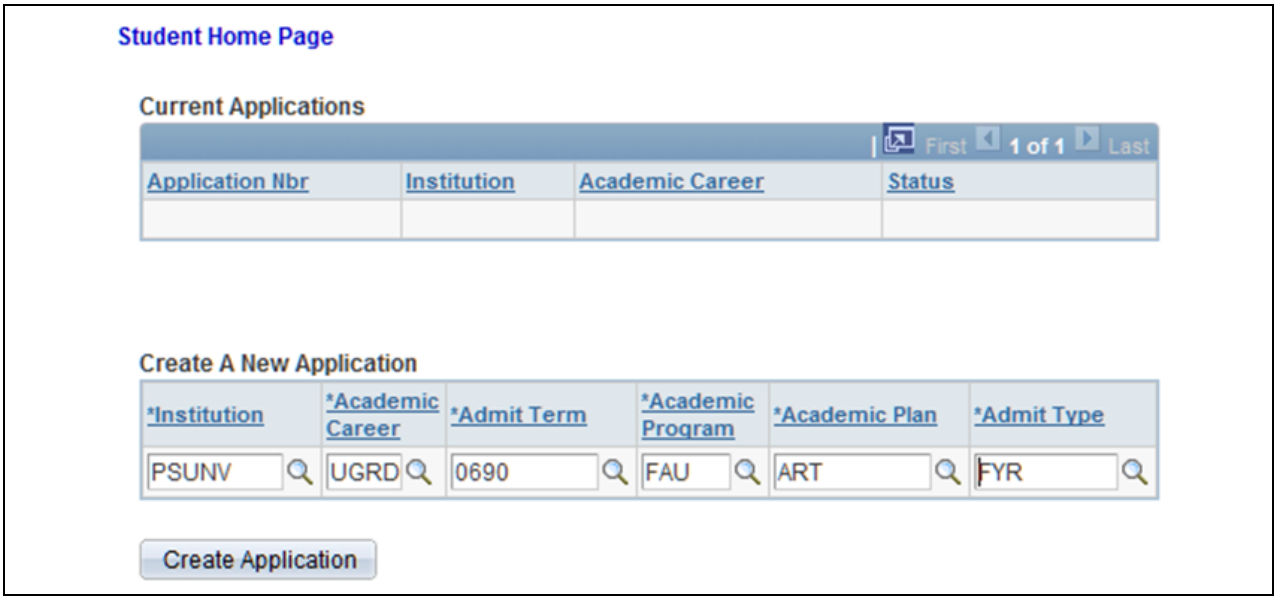
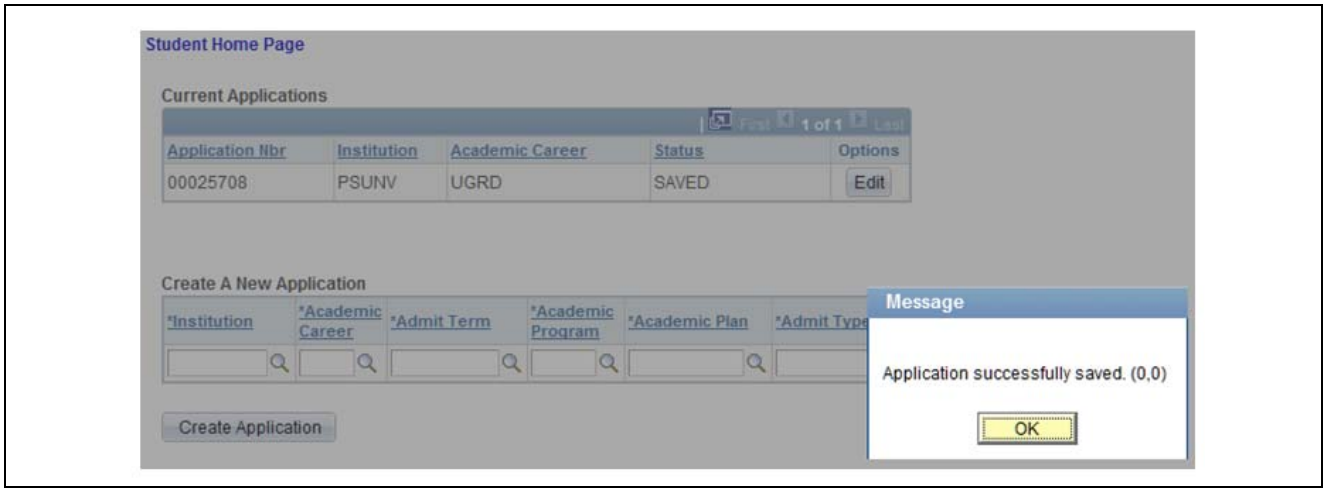
- Academic Program.
- Academic Plan.
- Admit Type.



Home page with the values for creating a new application

7. Click the Create Application button.
8. Change the value for the Gender field to *Female*.
9. Save your changes. When you save, a message should be displayed indicating that the application was successfully saved:



Message indicating that application has been saved

10. Click OK and sign out.
11. Sign back in using the newly created ID (that is, JSmith):

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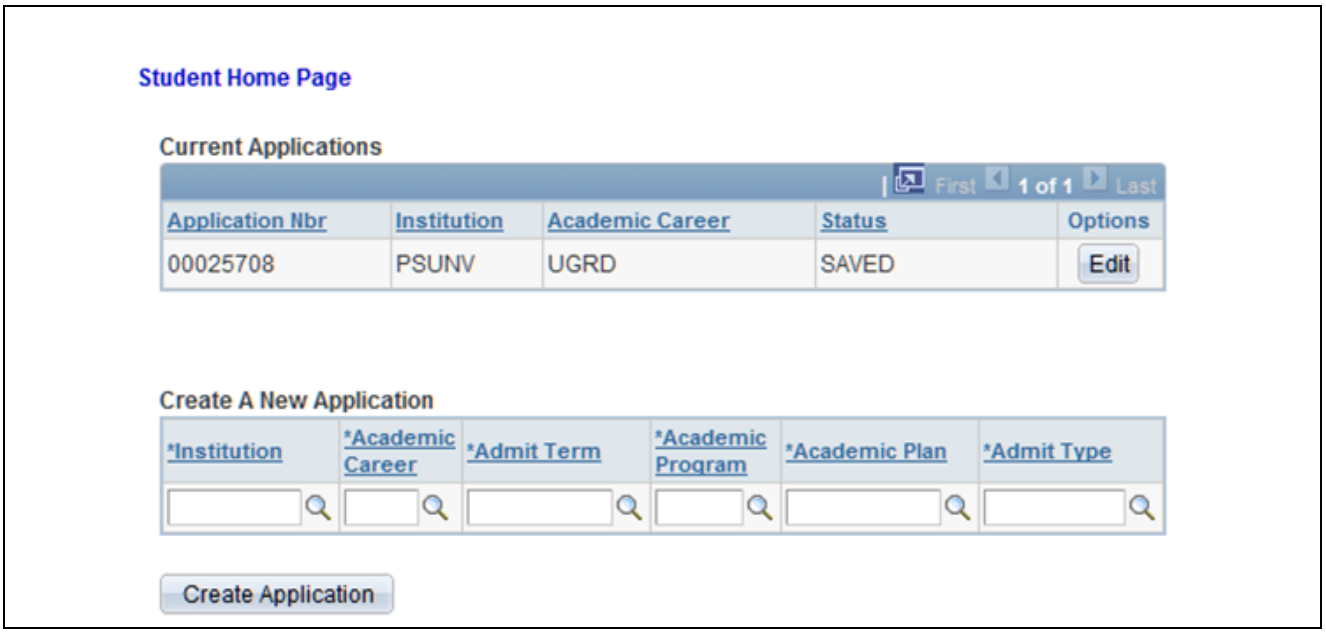
Signing into CS using the ID created through New User Registration tester page

12. Access the Sample Online Application component (Set Up SACR, System Administration, Utilities, Sample User Interfaces, Sample Online Application).



Home page with the saved application

13. Click the Edit button.
14. You should be able to see the application you started and the previously saved Gender change.

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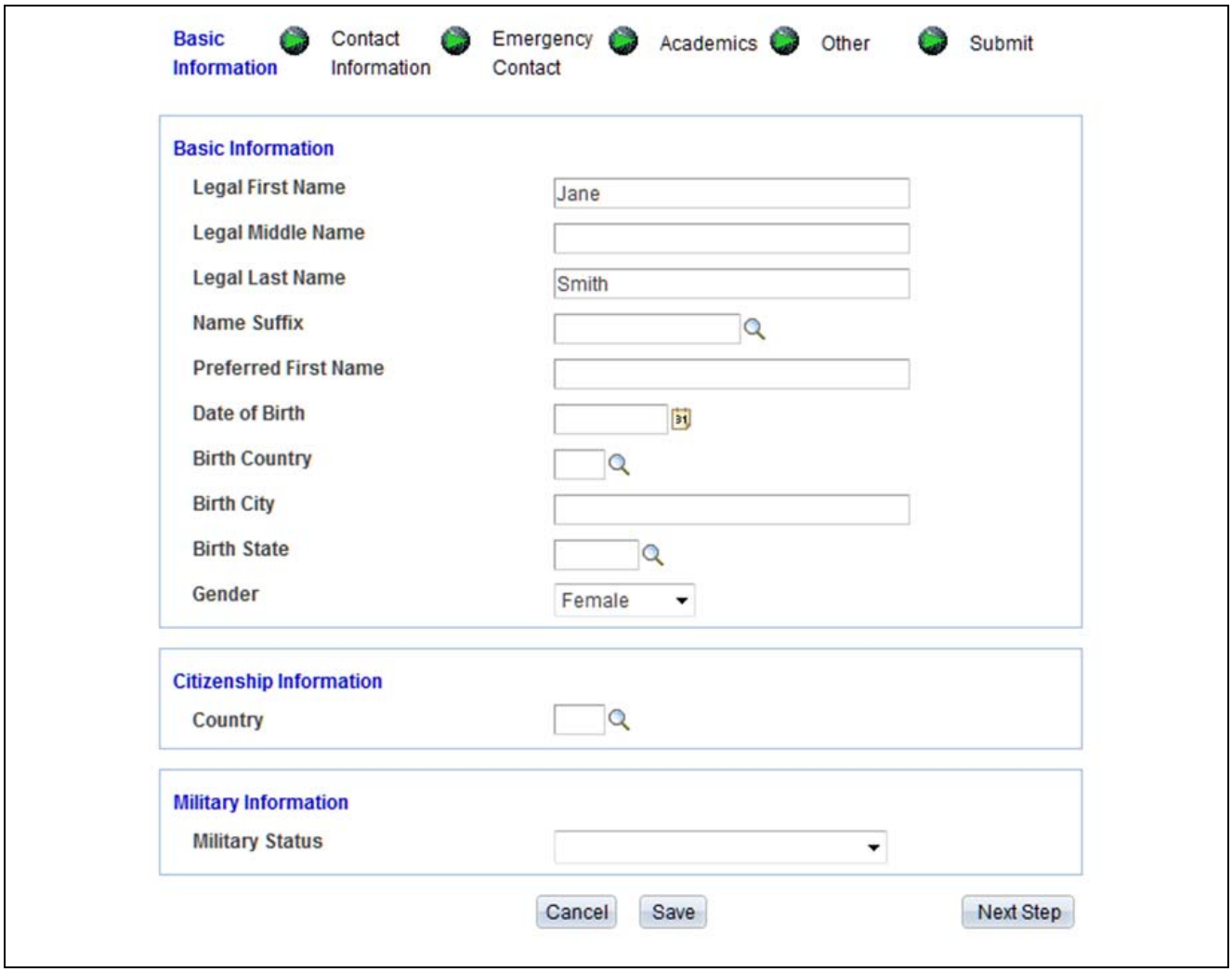

Basic Information page with the saved value

15. If you have made it this far, then the database is configured correctly for AAWS, SOLA, and New User Registration. If not, then verify that the preceding setup steps have been performed correctly.

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