ACADEMIC SUCCESS - EDUCATION NETWORKING PORTAL

A website portal to ensure a helping hand in determining academic success of the students.

PROJECT DOCUMENTATION

CENTENNIAL COLLEGE

Centennial College

Assignment

Part A – Project Inception – Problem Statement & Business Model Assignment

Professor : Mohamed Khan

Course Code : COMP246

Course Title : Object Oriented Software Engrg (SEC. 062)

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Submitted By:

Last Name	First Name	Student Number	Section
Banjara	*Shalin*	*300719199*	*062*
Patel	*Sanket*	*300717401*	*062*

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PROBLEM STATEMENT

To create an academic networking portal that helps students to communicate with members of their own academic community domain. Also the Portal focuses on providing information and guidelines to future students.

The three main users of the portal are

- Students
- Institutes
- Global Visitors

The portal allows the user to explicitly use features depending on their identity as student, institute or Global Visitors. This web portal is divided into three major sections as described below

- **Communities**
  - Students in the system are categorized into different communities depending on their institute, School and area of study.
- **Institutes**
  - This includes multiple departments of the institutes and also the student Union.
- **Global Visitors**
  - Individuals seeking information to make Toronto as their future study destination.

The portal has different features with respect to the above mentioned sections. Each section has their own set of exclusive features that would help the students to explore unique information in each and every section.

These are the sectional features:

- Communities
  - Students are grouped in an exclusive community by unique User-Id and password.
  - Students are allowed to view all the community members along with their contact information.
  - Students can volunteer to help their community members with their skill sets.
  - Students are able to search people with specific skillsets within their community for help.

- Students can buy, sell or exchange academic notes or used books.
- Students can read testimonials and success stories of graduated students of the same

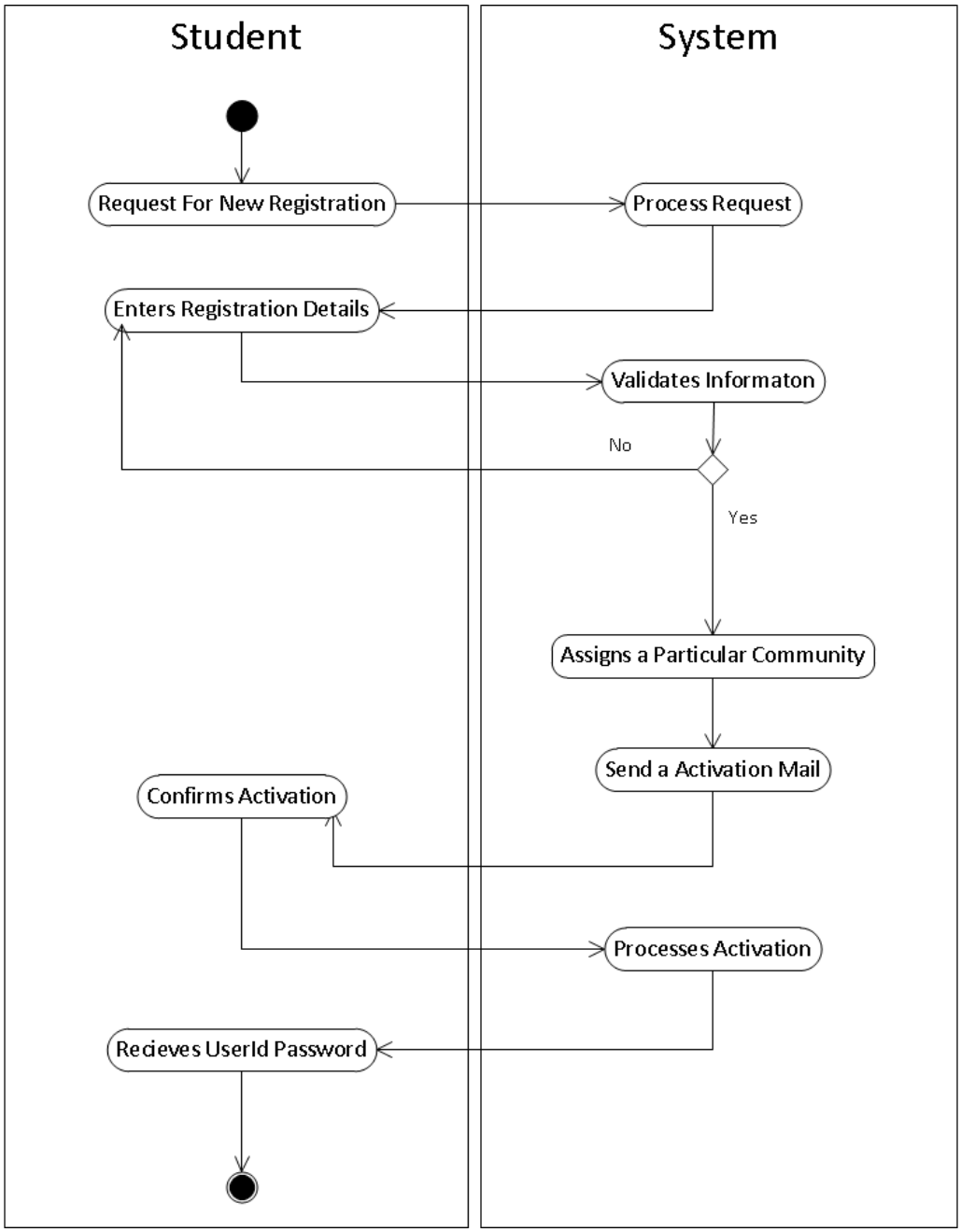
- Institutes
  - Each institute has its own set of communities and is allocated with a specific set of usernames and passwords depending on the number of departments and hierarchy of users.
  - Institutes can post news and upcoming events for its own set of communities.
  - Institutes are able to inform their students about offers and promotions within their campus.
- Visitors / International Students
  - In this section viewers have to provide their Name, Country and Email to view the information.
  - This section provides general information about Toronto in terms of Government Rules & Regulations, Transit System, Education System, Banking System, Accommodation System and Telecommunication system.

PORTAL PAGES, PROCESSES AND ACTIVITY DIAGRAMS

REGISTRATION

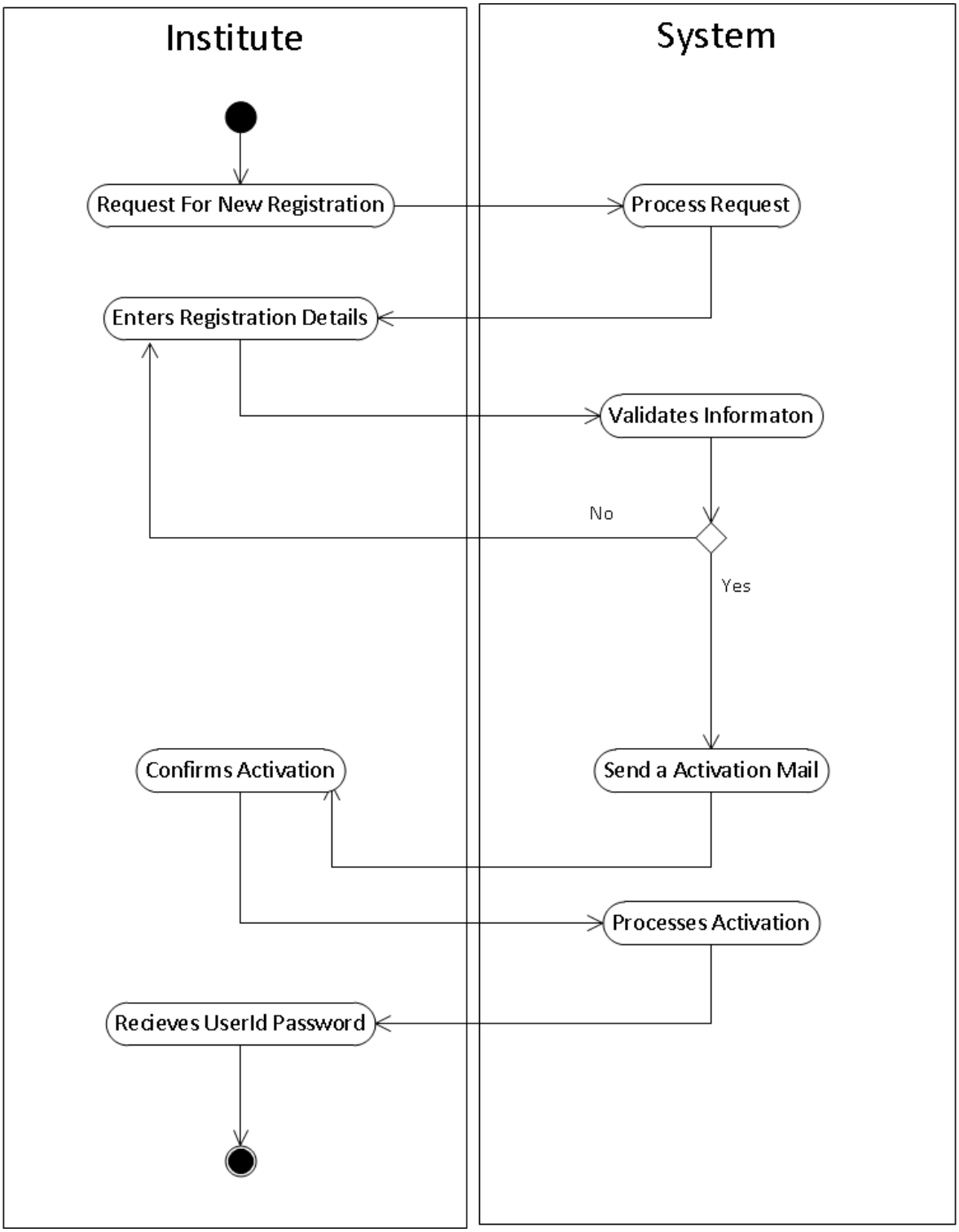
STUDENT REGISTRATION

This registration module is for students, where they fill in the required information and the system supplies them with a user ID and password after validating their details.



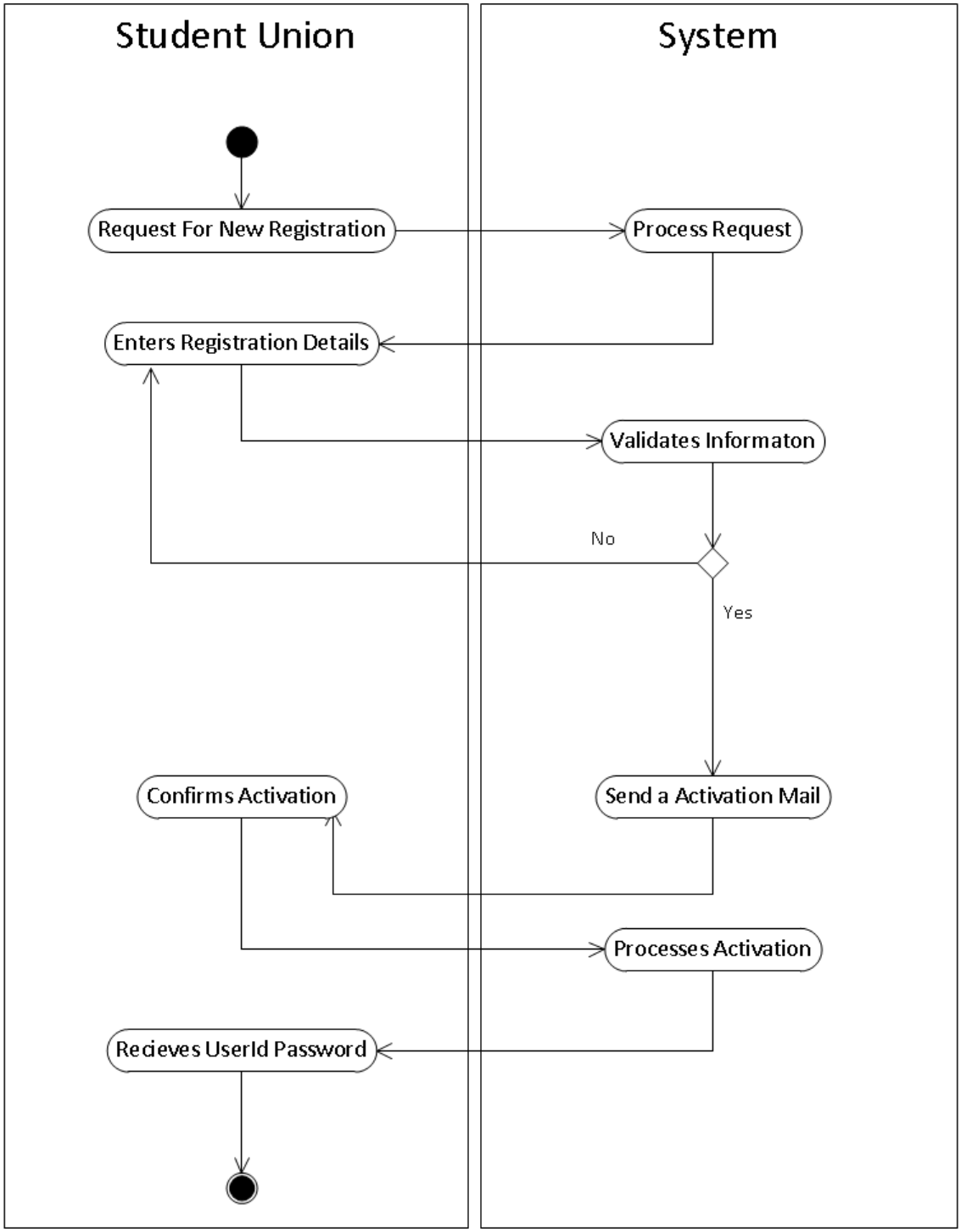
INSTITUTE REGISTRATION

This registration module is for Institute, where they fill in the required information and the system supplies them with a user ID and password after validating their details.



STUDENT UNION REGISTRATION

This registration module is for Student Union, where they fill in the required information and the system supplies them with a user ID and password after validating their details.

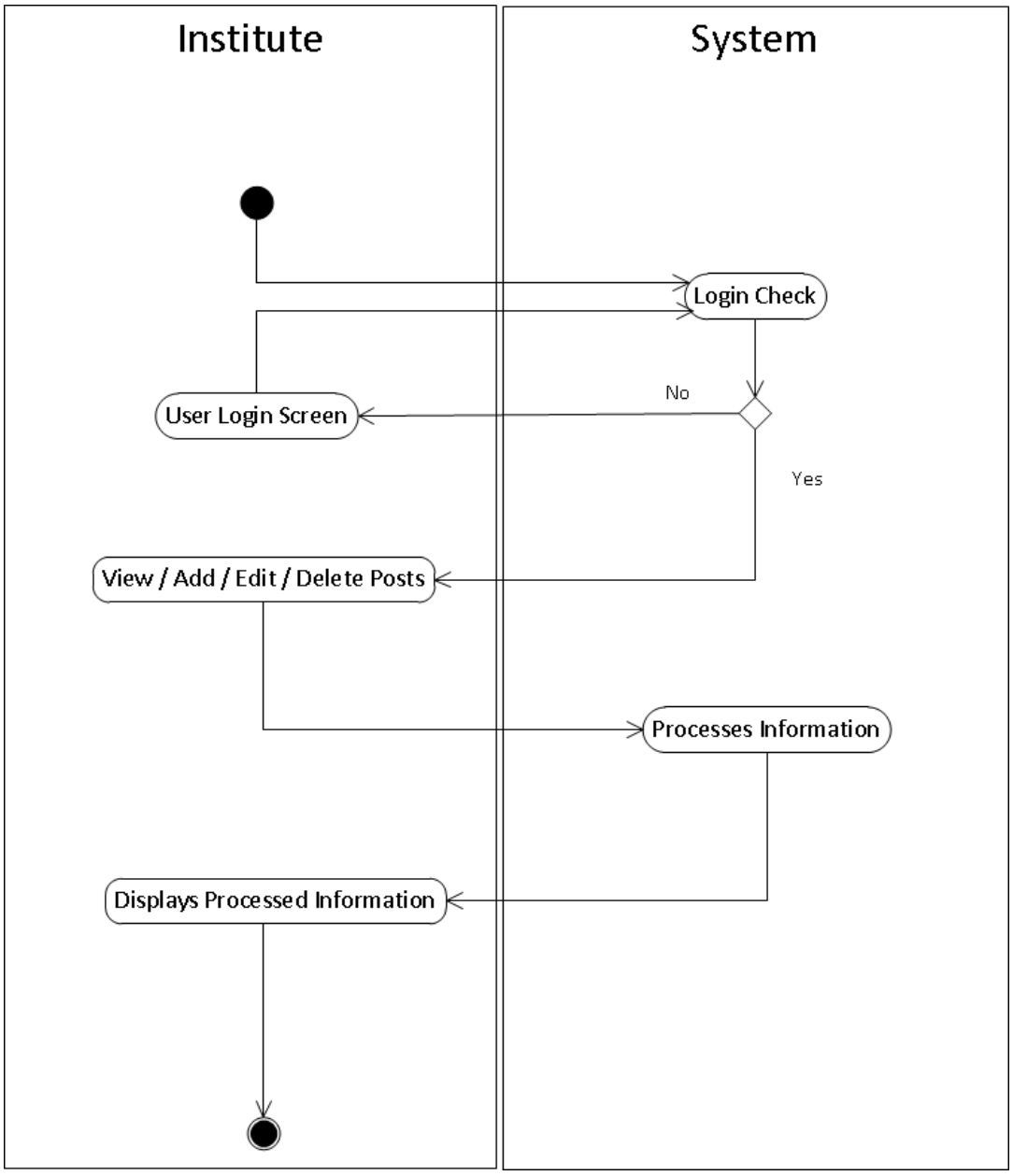


NEWS AND EVENTS

VIEW/ADD/EDIT OR DELETE POST

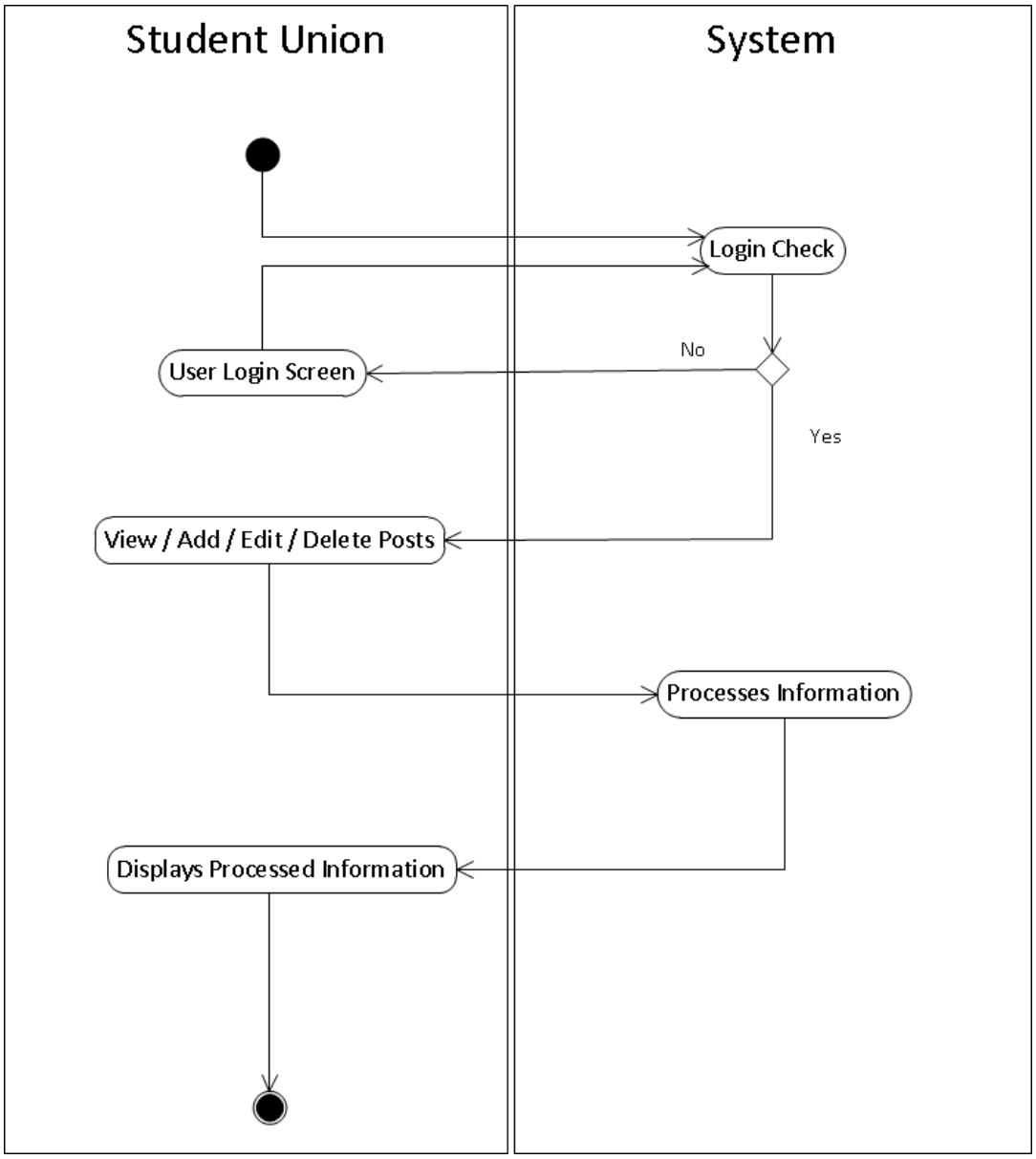
INSTITUTE CAN POST NEWS AND EVENTS

Institutes here can view/add/edit or delete entries to post news and events.



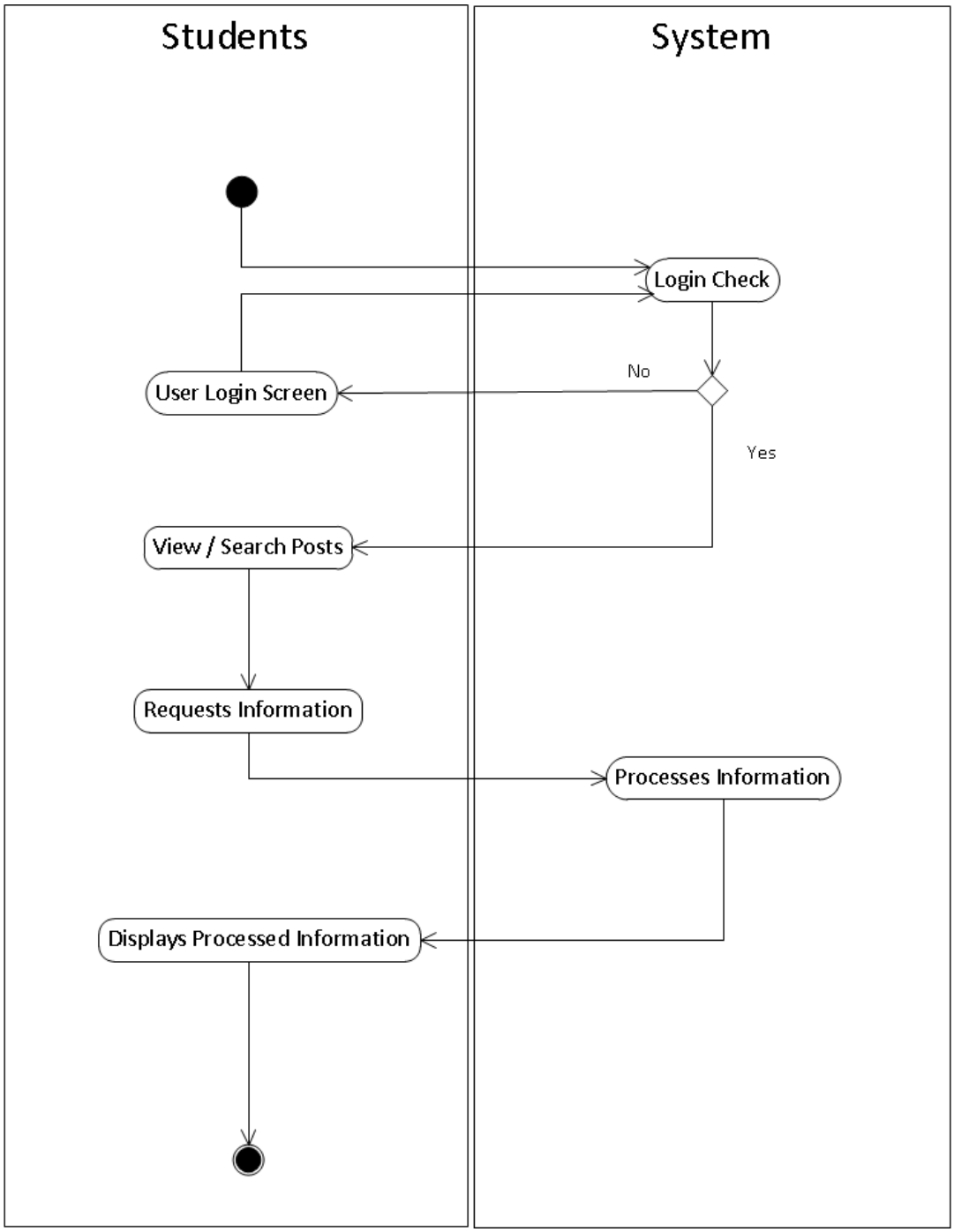
STUDENT UNION CAN POST NEWS AND EVENTS

Student Union here can view/add/edit or delete entries to post news and events.



STUDENTS CAN VIEW ALL THE POST

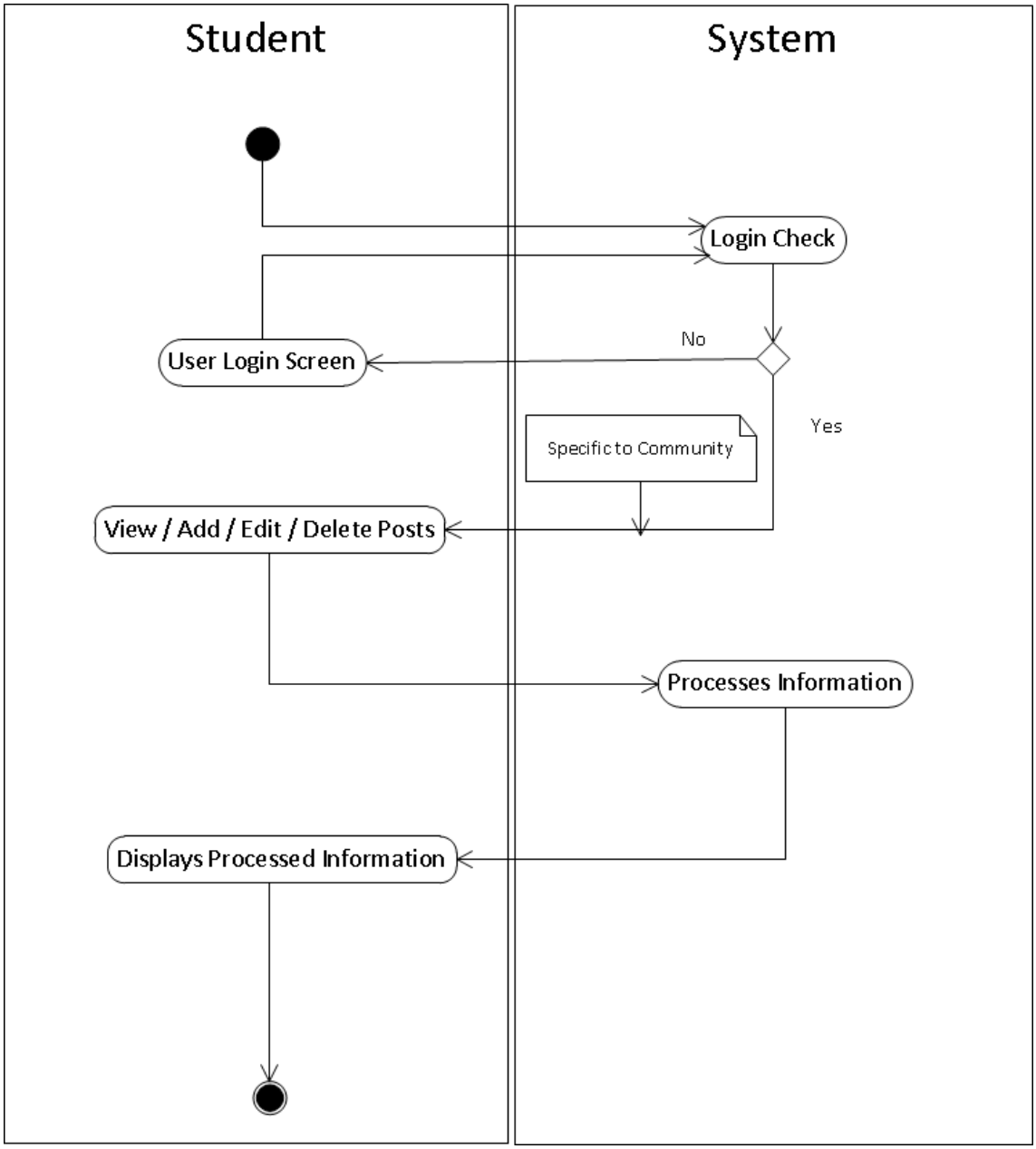
Students here can view news and events.



COMMUNITY JOINT

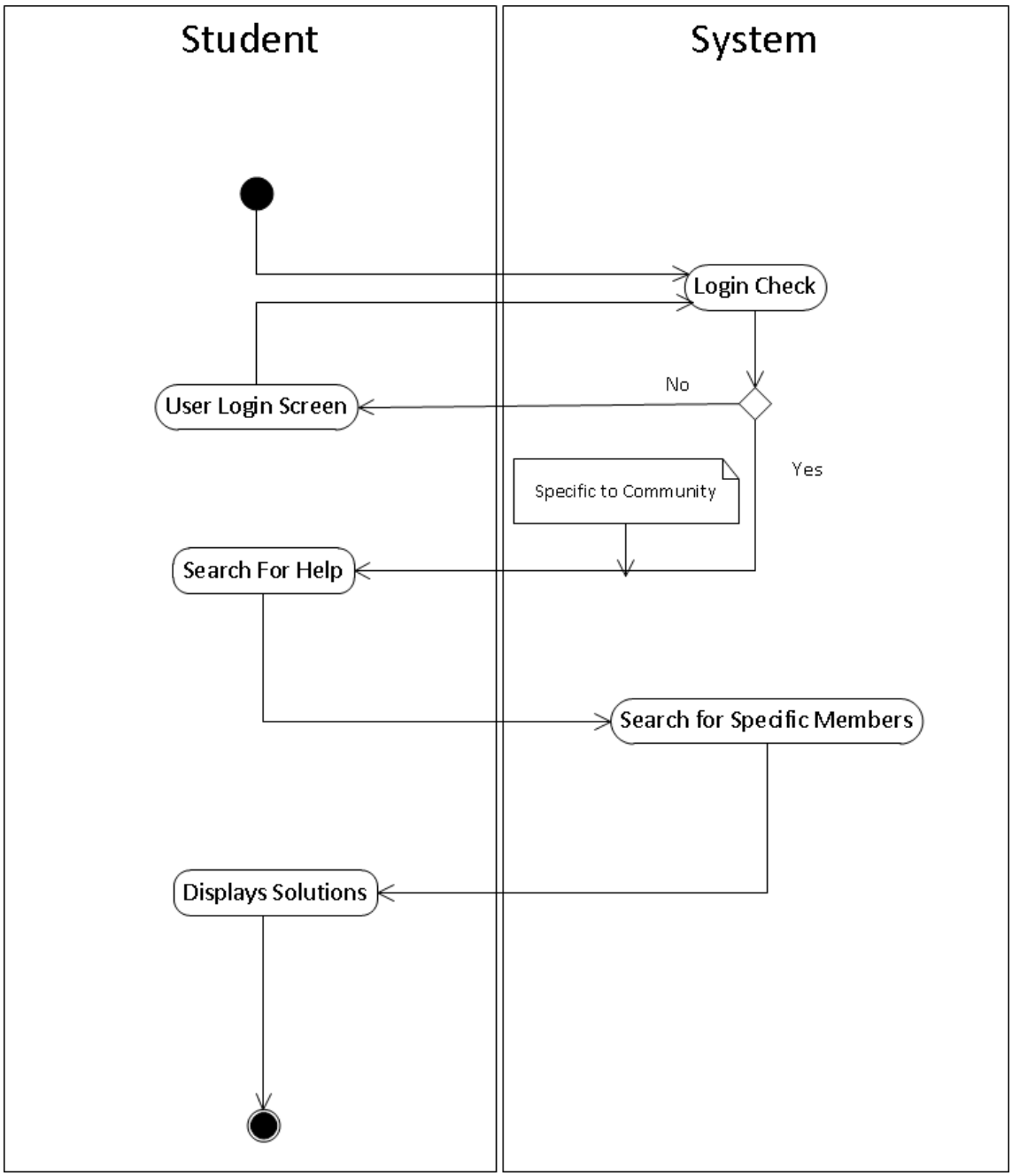
COMMUNITY FORUM

This section is explicitly for students. Students can view/add/edit/delete post within their community.



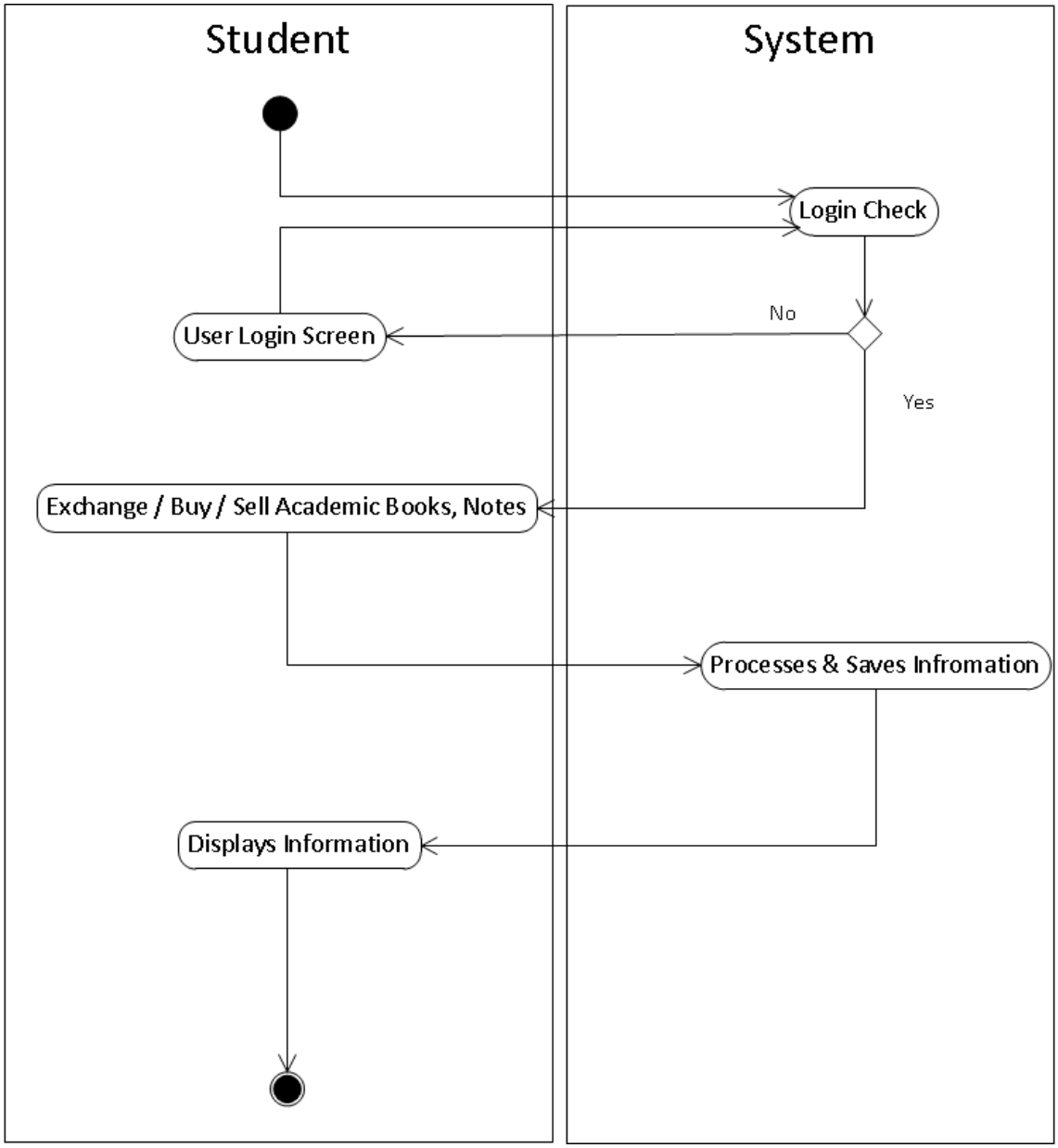
SEARCH FOR HELP

Student here can search other members in their group who are willing to lend help with specific skillsets.



EXCHANGE/BUY/SELL - ACADEMIC NOTES OR USED BOOKS

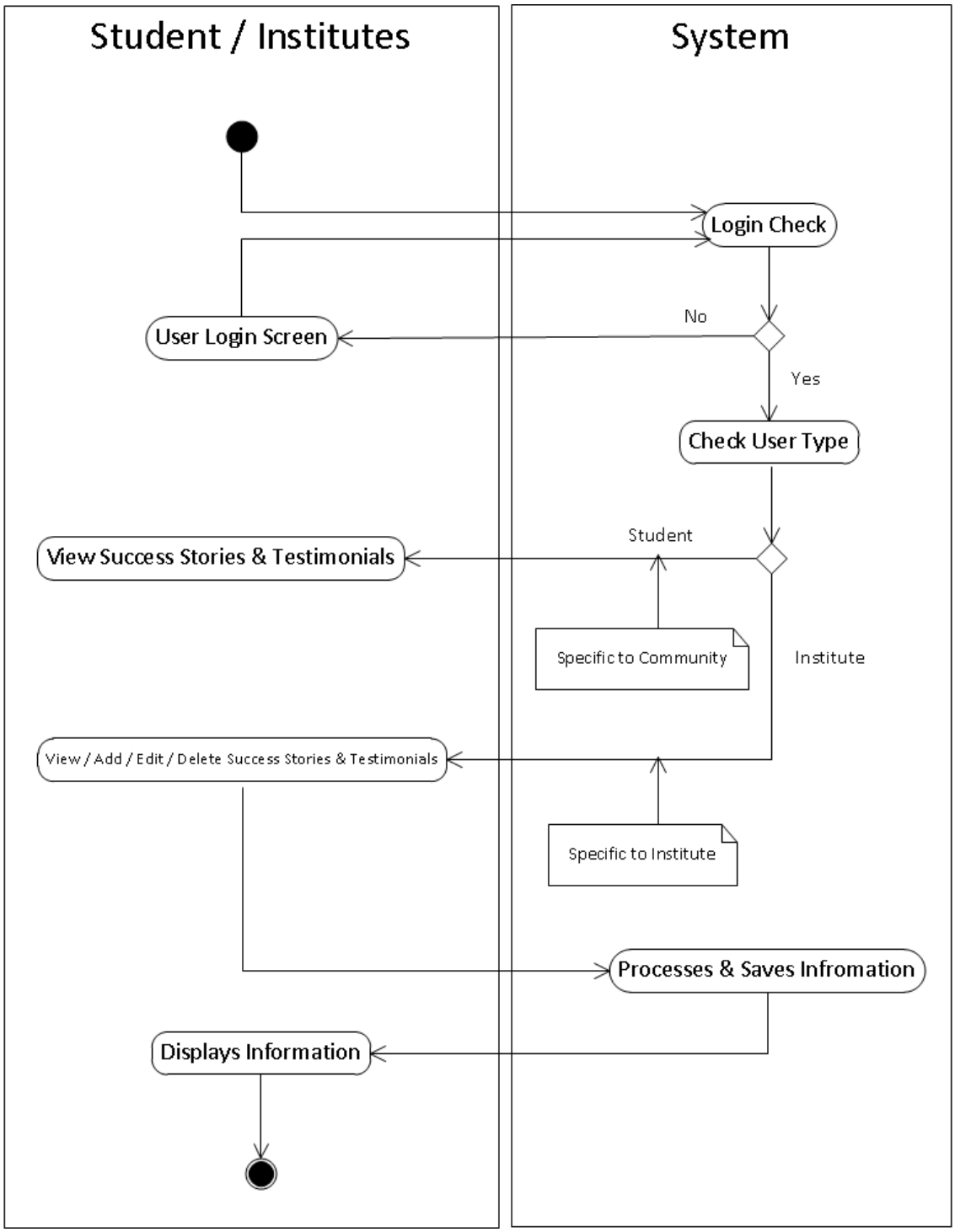
In this section students can post entries to sell their used books, notes. Other students can view/search these entries to buy them.



Showcase

Add/Edit or Delete a success stories or testimonials

Different Departments of the institutes can post success stories and testimonials. Students can view success stories & testimonials of graduate students of their specific community.

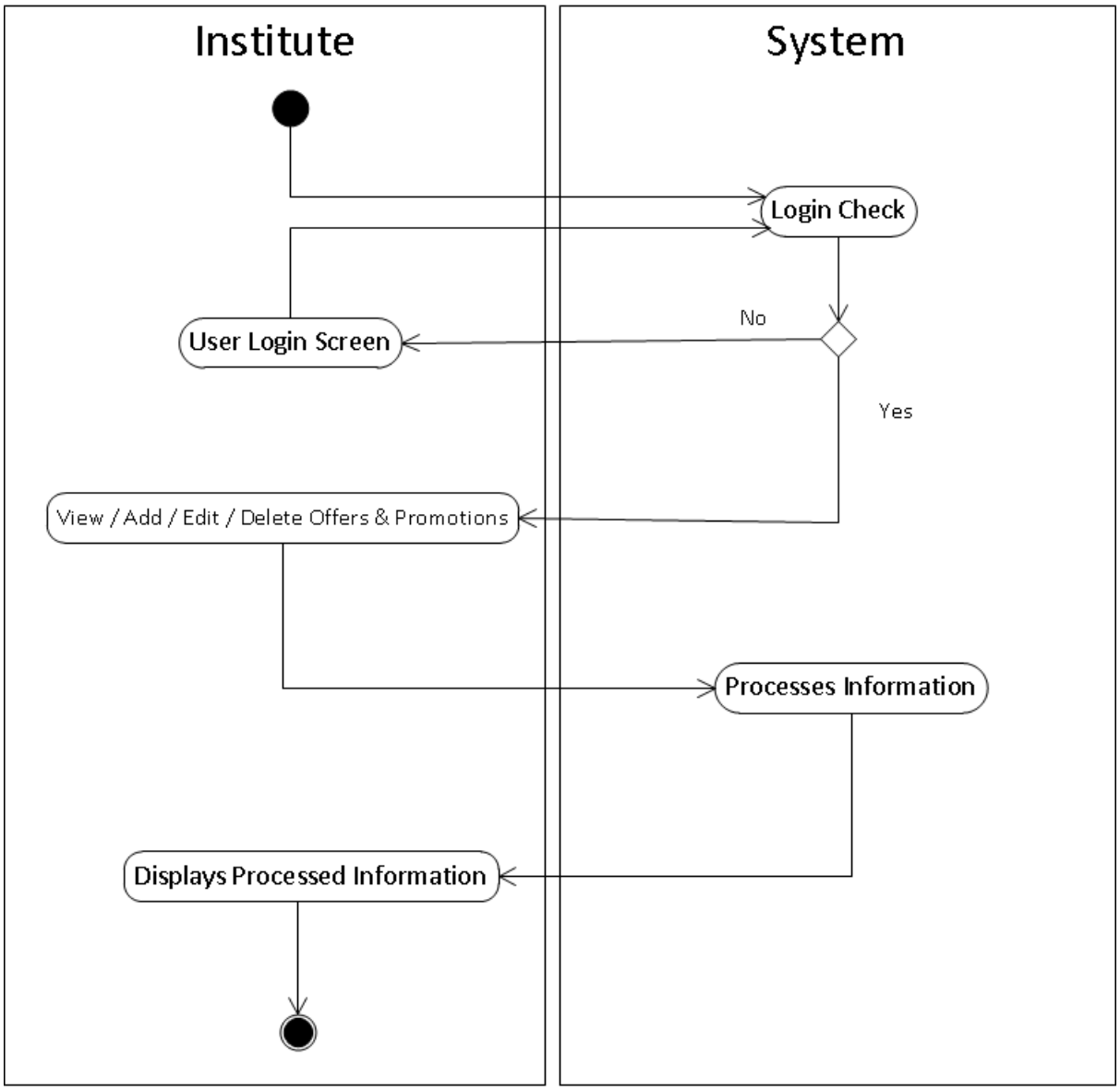


Offers & Promotions

Add/Edit or Delete a post

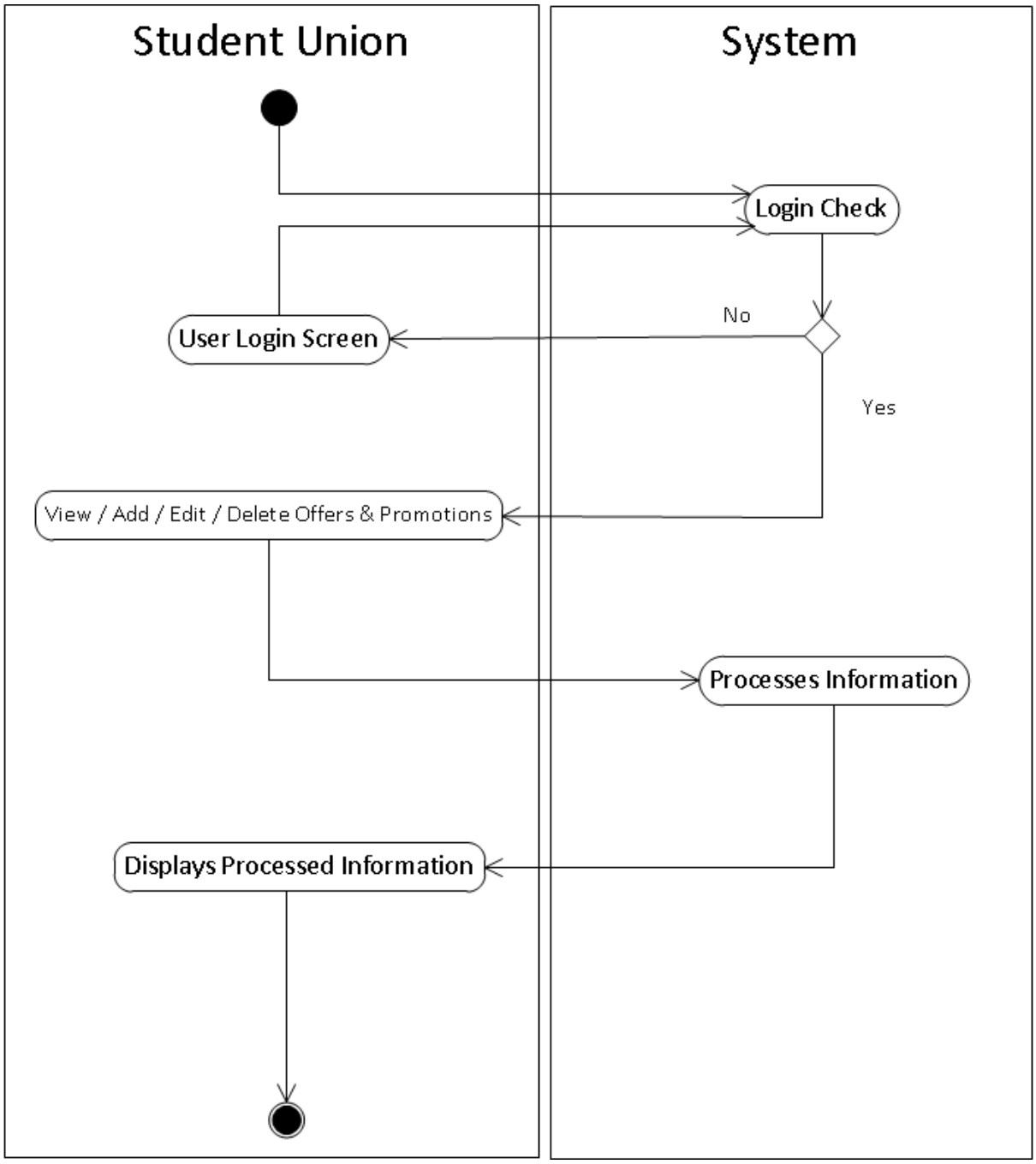
Institutes can post Offers and Promotions

Institute can post their offers and promotions in this section.



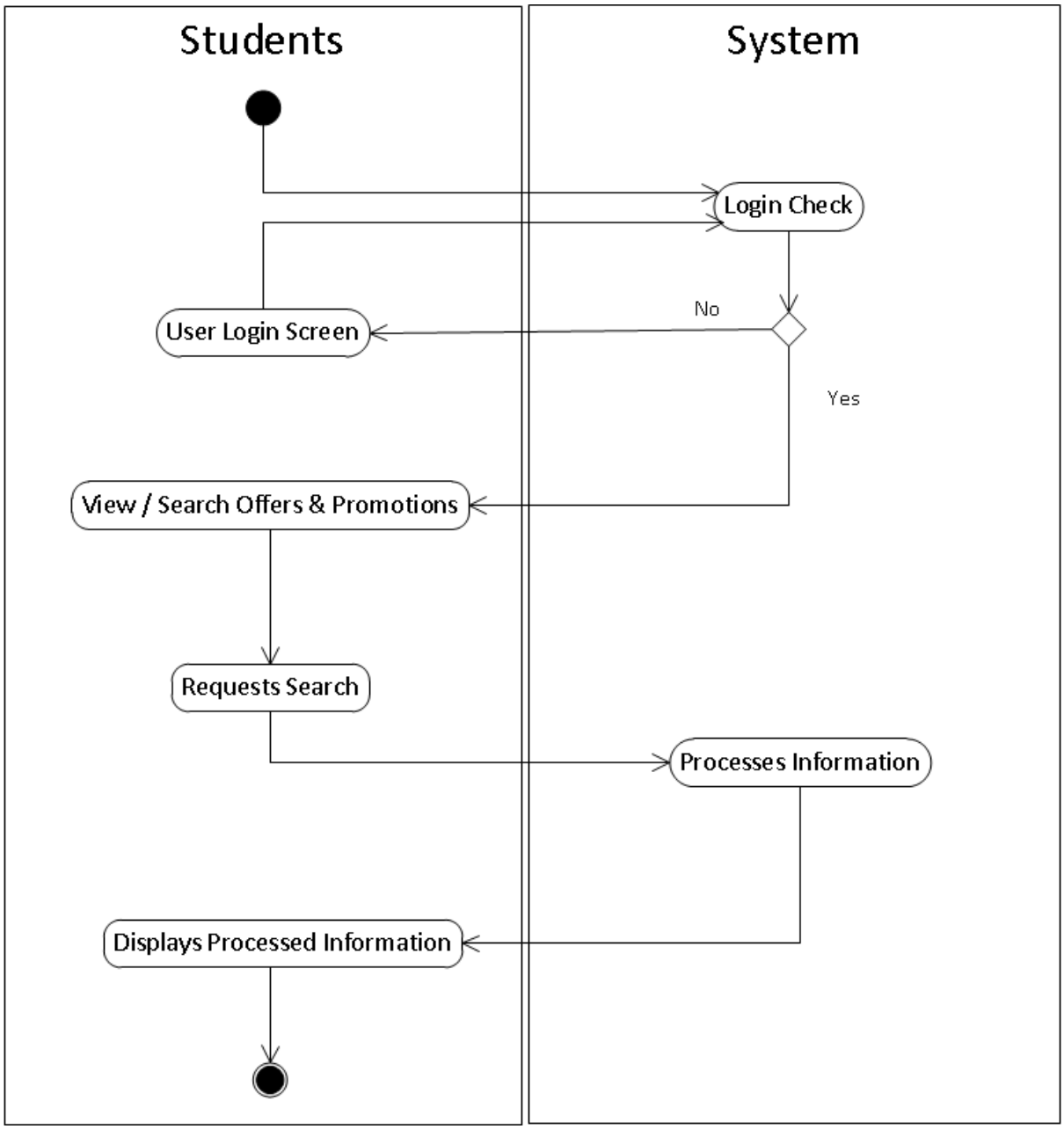
Student Union can post Offers and Promotions

Student Union can post their offers and promotions here.



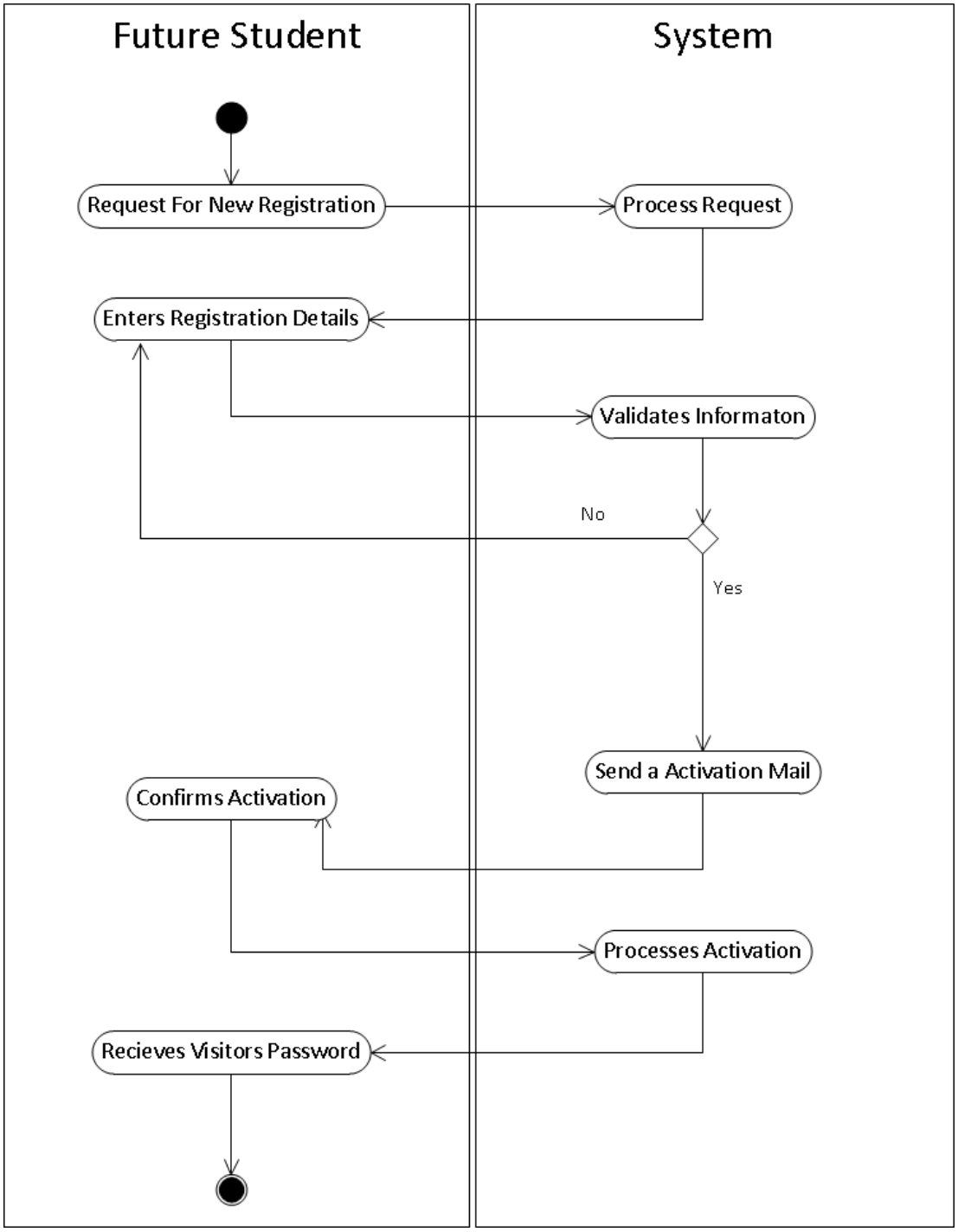
Students can view News and Event

Students can view the ongoing offers and promotions in their institute and student union.

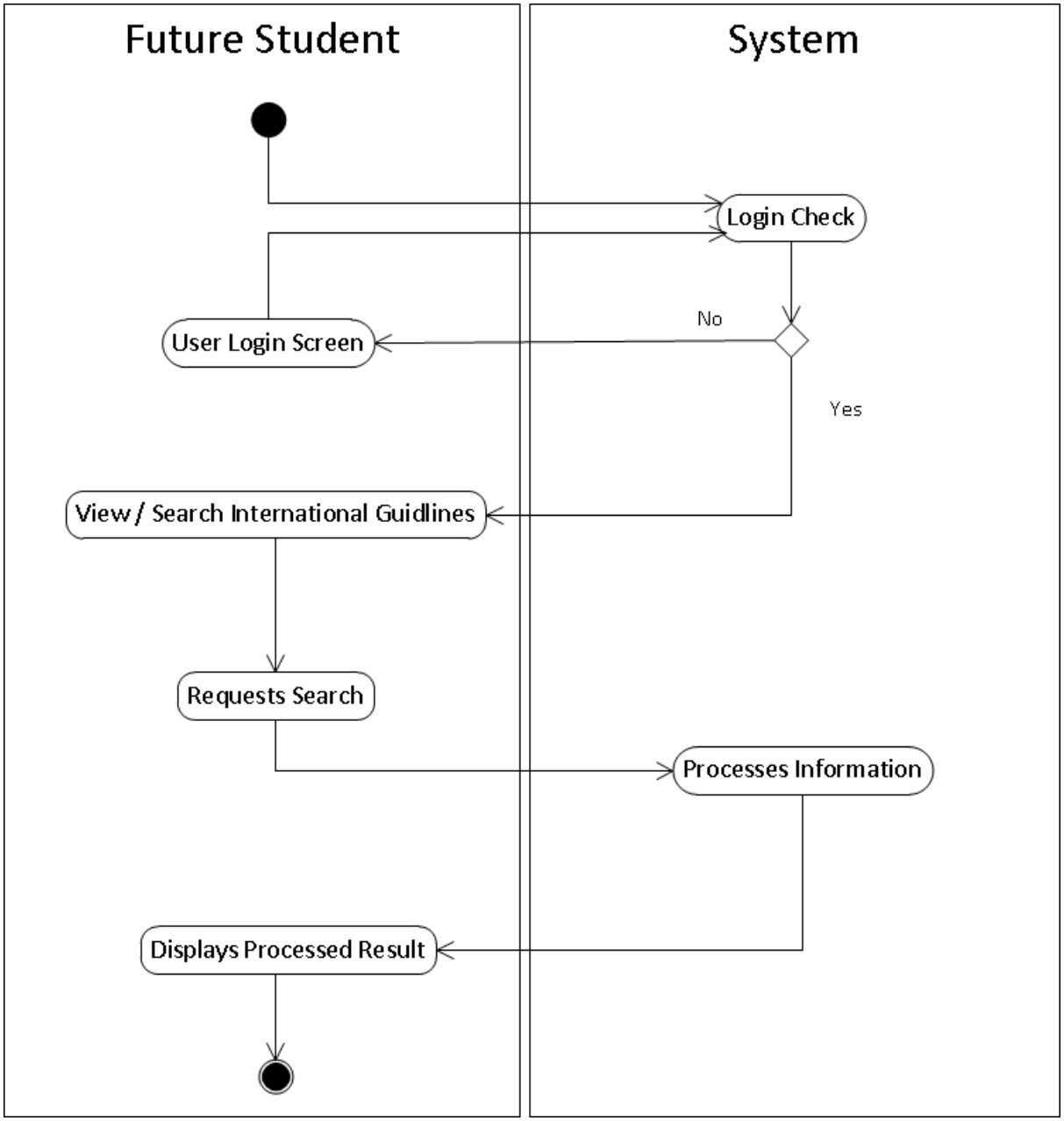


Visitors Registration

In this section the visitor needs to provide their basic information. The system supplies them with their visitor password to access the International Student Information Section after validating their information.



Future Students from all over the world are able to view general information about Toronto in terms of Government Rules & Regulations, Transit System, Education System, Banking System, Accommodation System and Telecommunication system.



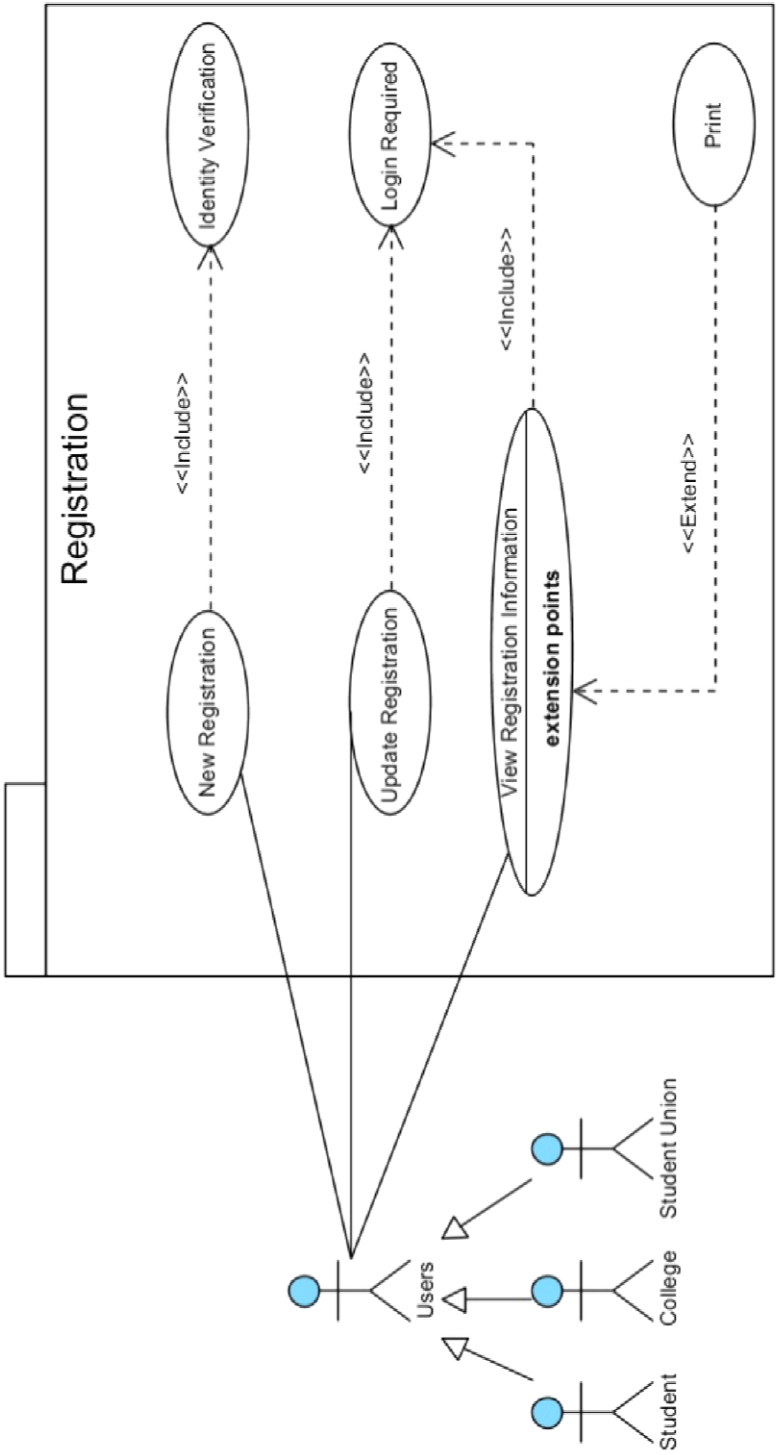
USE CASES

USE CASE LIST

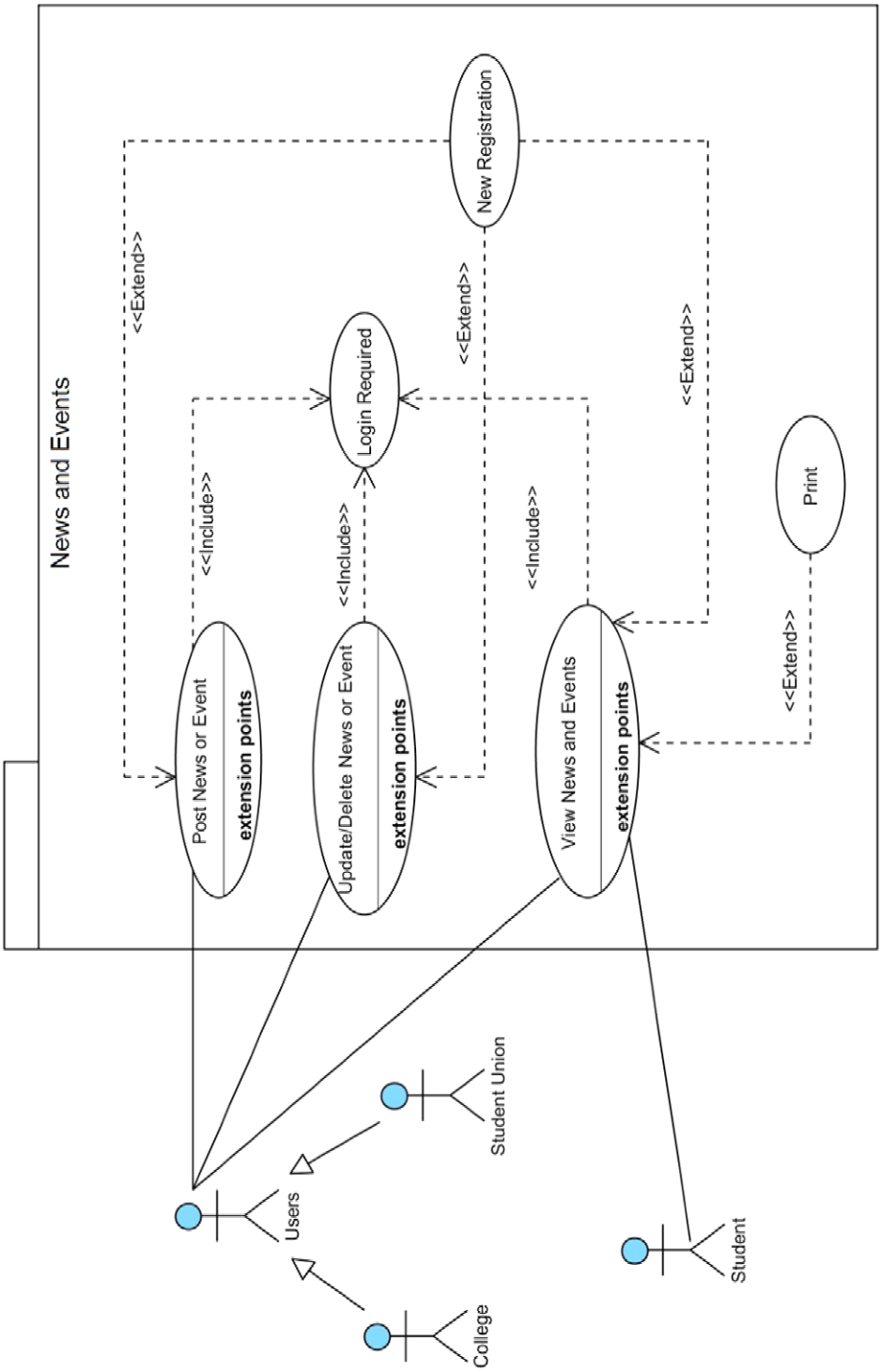
Packages	Sub Packages	Use Case ID	Goal Use Case	Description	Include	Extend	Generalization	Actor
Registation		1.0						
			New Registration	Register a new user and assign specific community if eligible. Provide username and password after verification	Verify Identity	Assign Community		Students College Student Union
			Update Registration	Update the registration information	Login Required			
			View Registration Information	Check user's current status and provide their registration information	Login Required			
News and Events		2.0						
			Post News or Event	Colleges and Student Union can post news and events.	Login Required	New Registration		CollegeStudent Union
			Update/Delete News or Event	Colleges and Student Union can modify or delete posted news and events.	Login Required			
			View News & Events	Students, Colleges and Student Union can view posted news and events	Login Required	New Registration, Print		Students/ College/ Student Union
Community Joint		3.0						
	Community Forum	3.1						
			New Post	Student can post any information in their community forum.	Login Required	New Registration		Students
			Update/Delete Post	Student can modify or delete their post.	Login Required			
			View Posts	Students can view all the post of their community.	Login Required	New Registration, Print		
	Search For Help	3.2						
			Search Help	Students can search for other people with specific skill set in their community willing to help.	Login Required	New Registration, Print		Students
	Book Joint	3.3						
			Add Book/Note	Students can post advertisement to buy or exchange books or notes.	Login Required	New Registration		Students
			Update or Delete Book/Note	Student can modify or delete the advertisement posted by them.	Login Required			
			Search Books/Notes	Students can search for available books or notes.	Login Required	New Registration, Print		
	Showcase	3.4						
			Add Success Story or Testimonial	College can post success stories and testimonials of old students.	Login Required	New Registration		College
			Update/Delete Success Story or Testimonial	College can modify or delete success stories and testimonials.	Login Required			
			View Success Stories & Testimonials	Students can view success stories and testimonials of old students who belonged to their community.	Login Required	New Registration, Print		Students / College

USE CASE DIAGRAMS

REGISTRATION (UC-1.0)

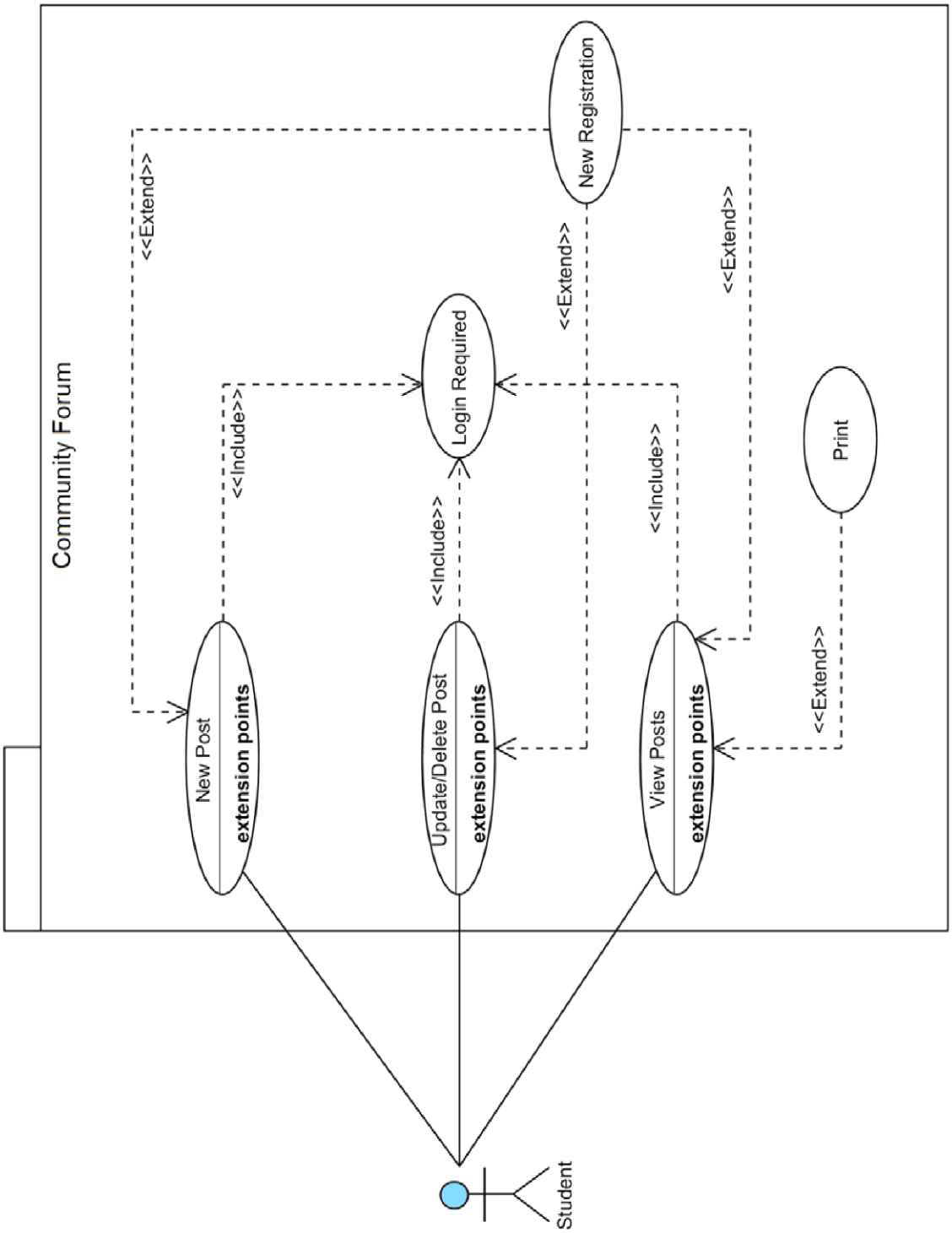


NEWS AND EVENTS (UC-2.0)

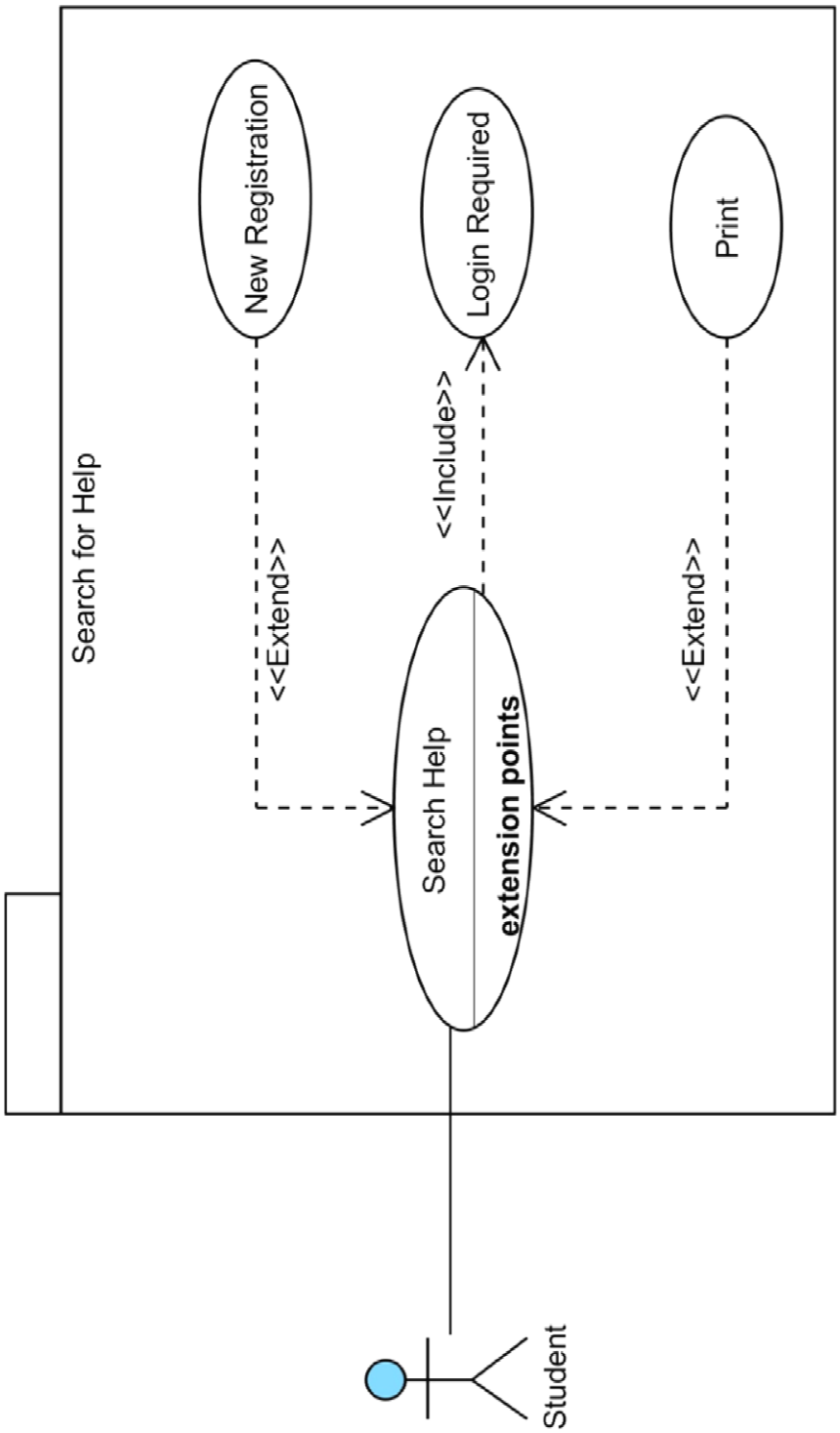


COMMUNITY JOINT (UC-3.0)

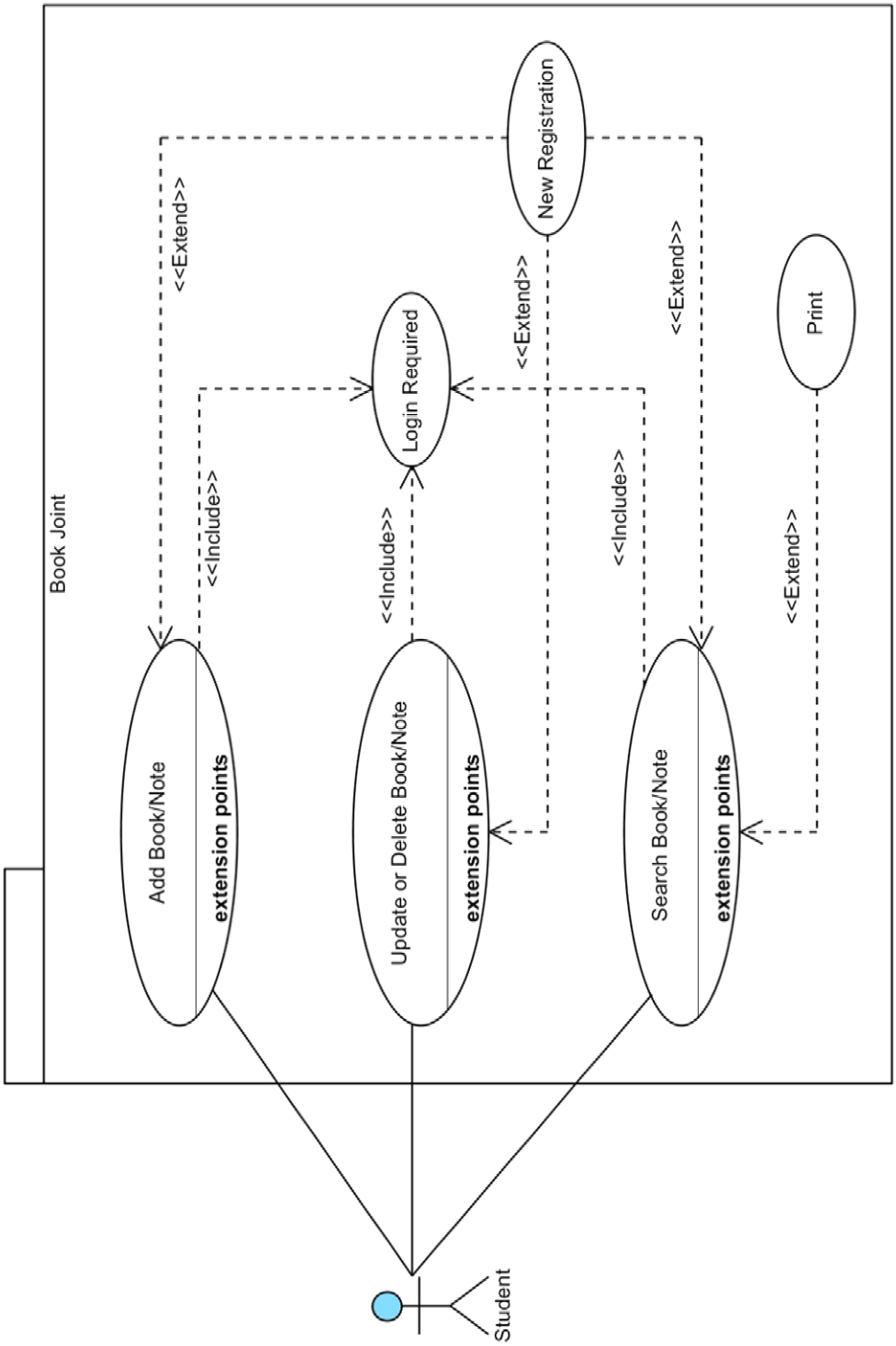
COMMUNITY FORUM (UC-3.1)



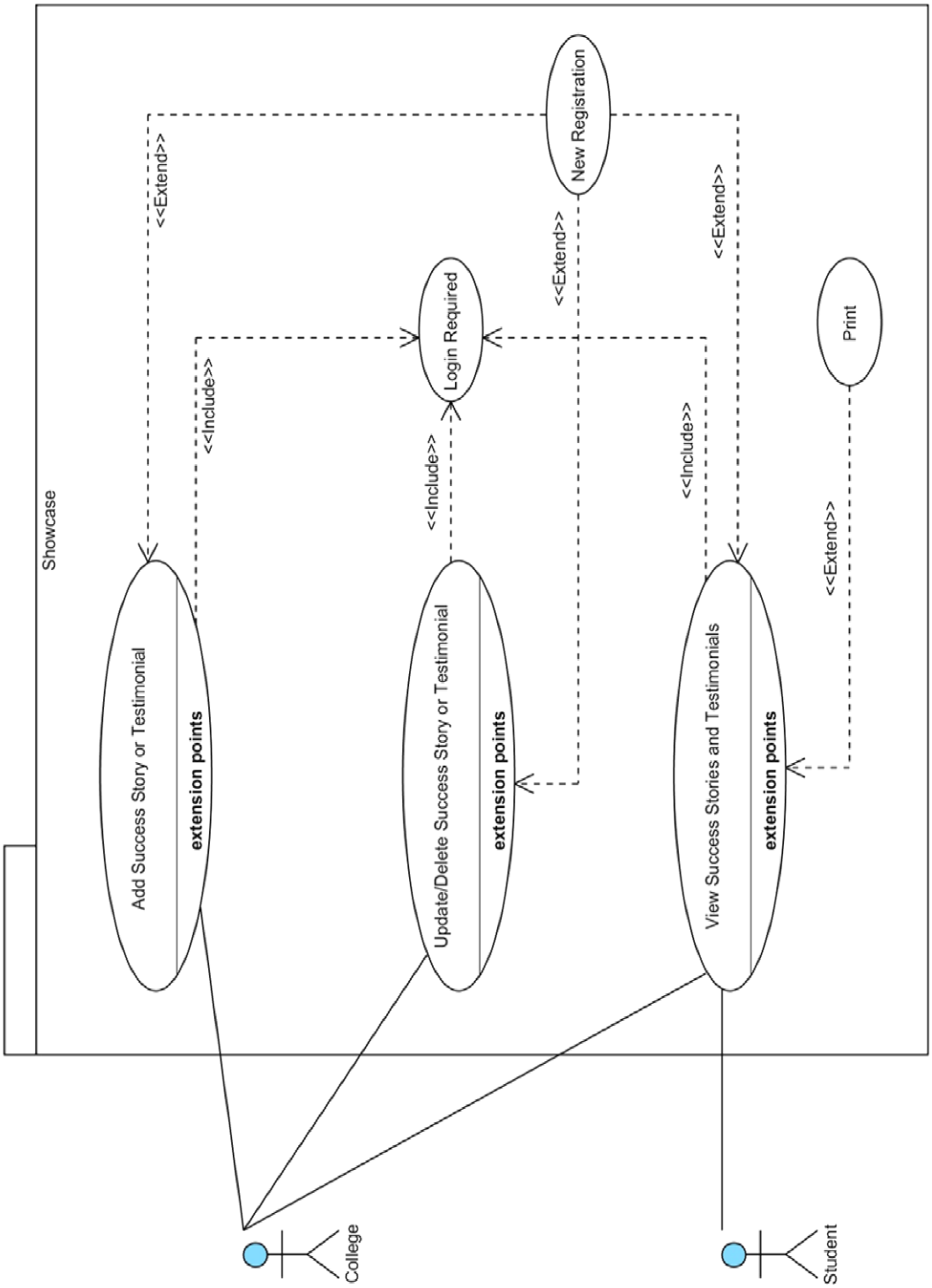
SEARCH FOR HELP (UC-3.2)



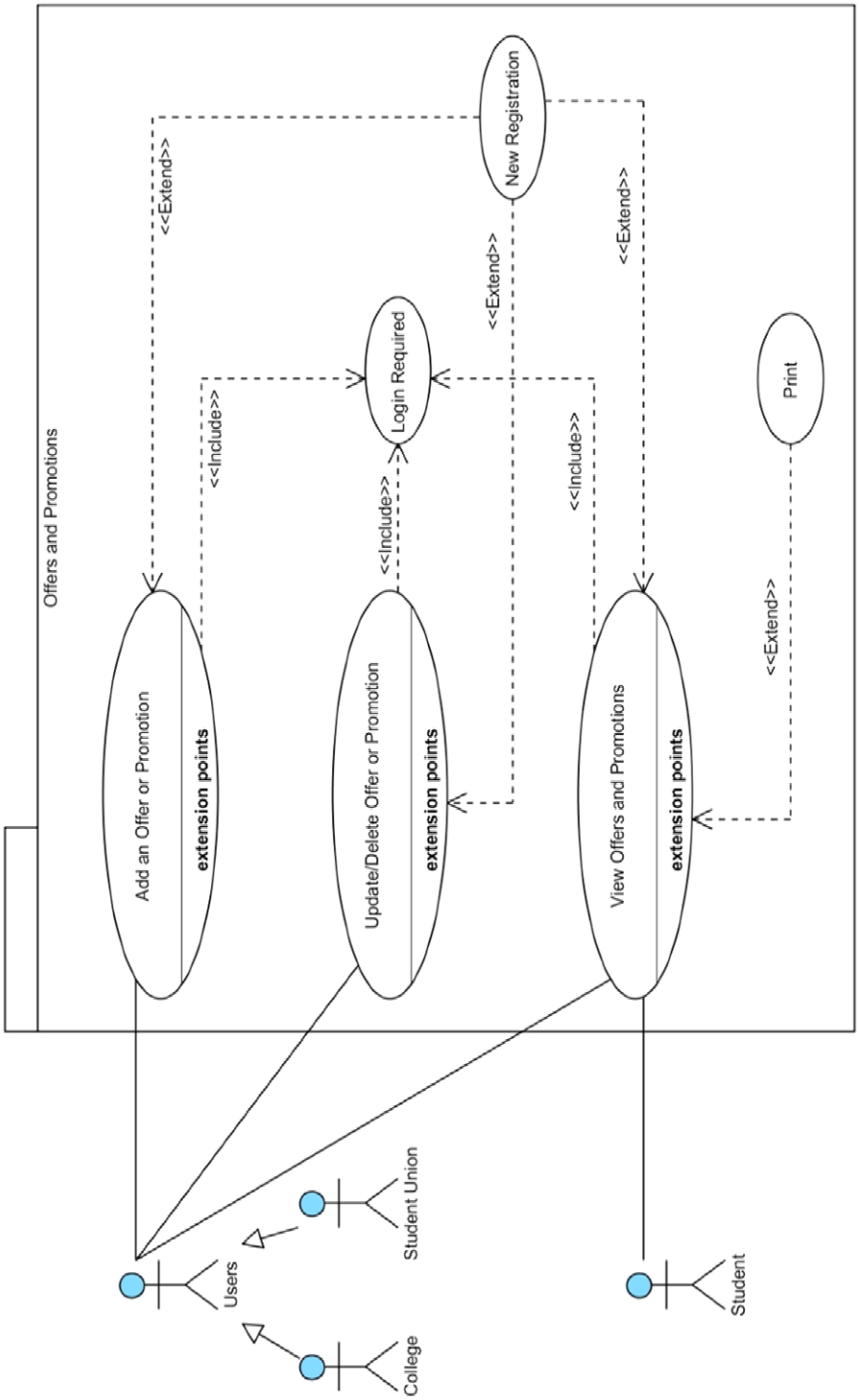
BOOK JOINT (UC-3.3)



SHOWCASE (UC-3.4)

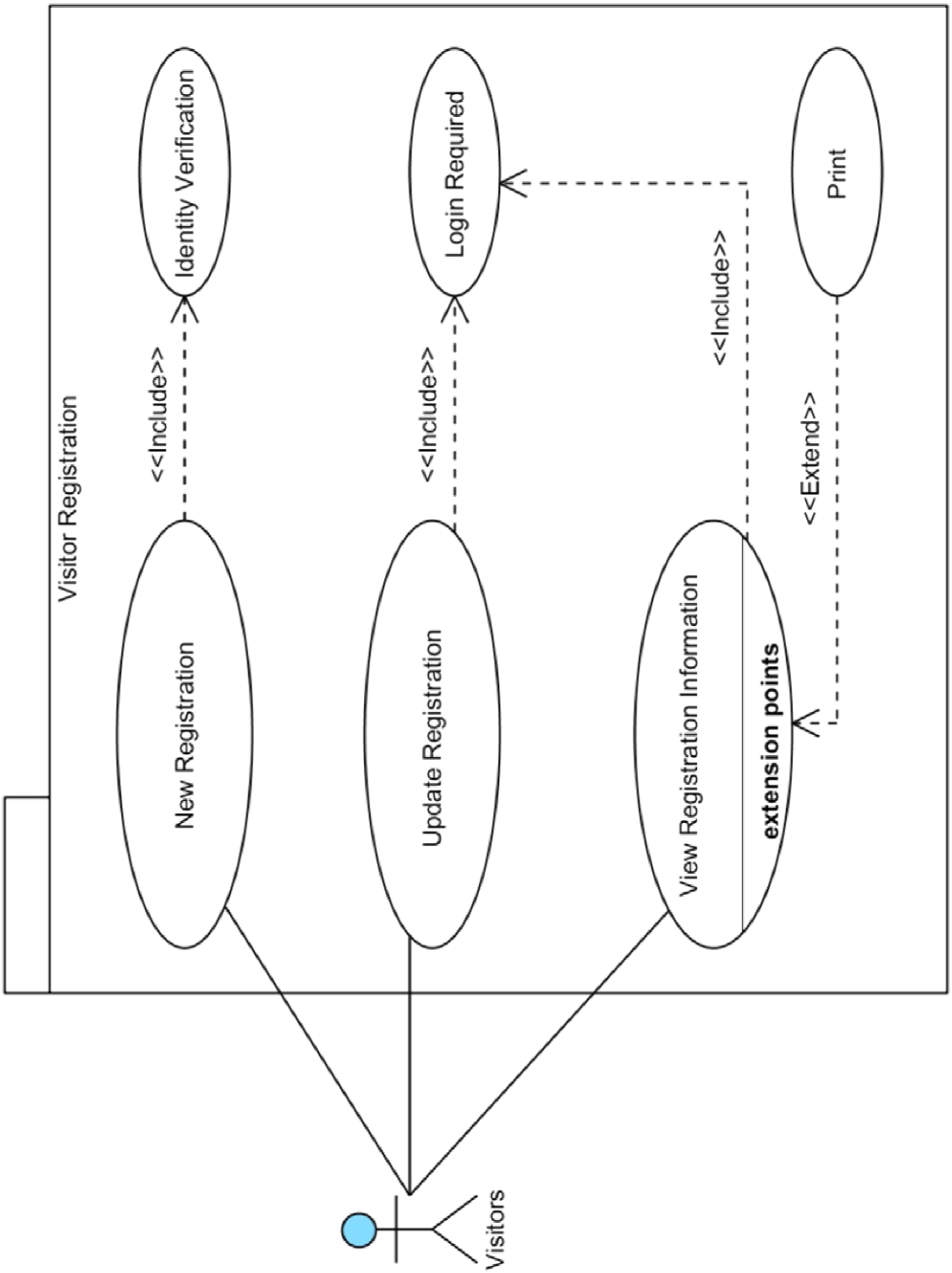


OFFERS AND PROMOTIONS (UC-4.0)

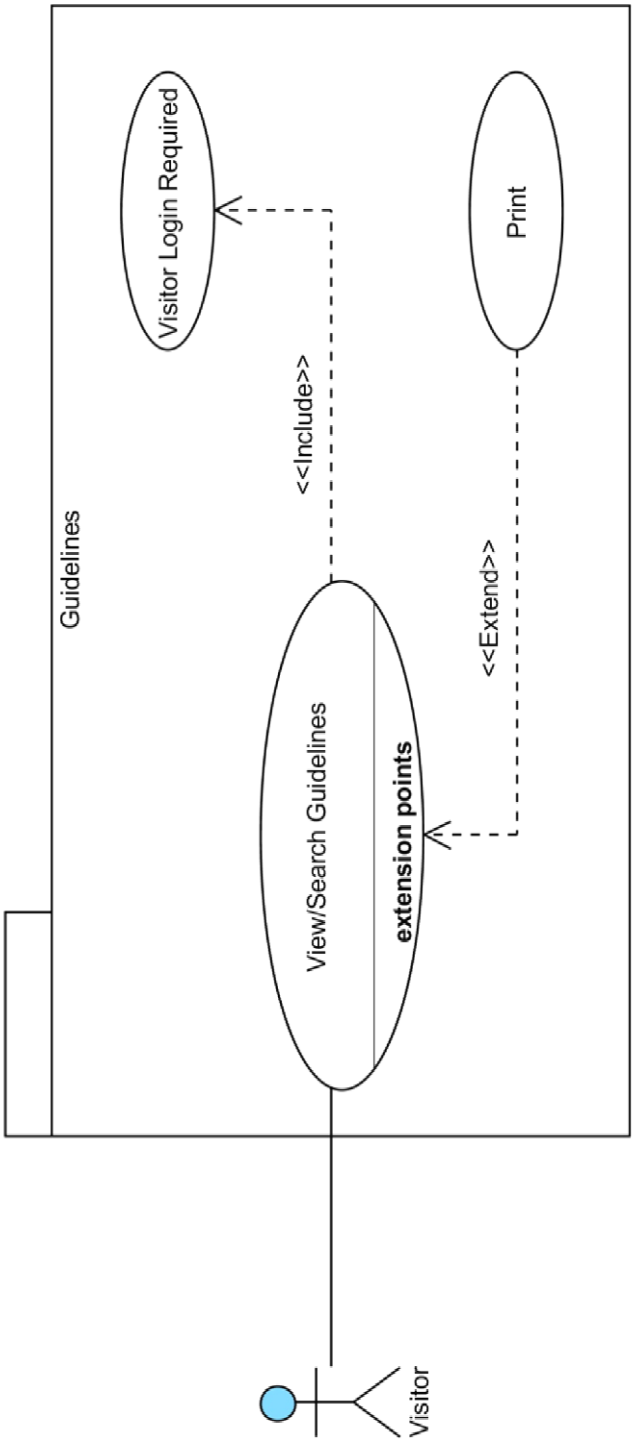


INTERNATIONAL GUIDELINES (UC-5.0)

VISITOR REGISTRATION (UC-5.1)



GUIDELINES (UC5.2)



USECASE DESCRIPTIONS

REGISTRATION

Package	Registration	
Sub-Package	-	
Use Case Name	New Registration	
Use Case ID	UC-1.0	
Actor(s)	Student, College, Student Union.	
Brief Description		
Pre-Condition(s)	User must have their official college email id.	
Post-Condition(s)	User's information is saved in the database and user is assigned a specific community along with a	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	i. Clicks on Registration.	
		i. Shows a Registration form.
	ii. Enters appropriate information along with course name and college email id. Clicks on VERIFICATION Button.	
		ii. Validates the form information like availability of the username and password strength and sends an activation number with username and password to the user's college email id.
	iii. Accesses their college mail account to retrieve the activation number and enters it in the form and clicks the REGISTER Button.	
		iii. Process the information, assigns an appropriate community and stores information in the database. Allows the user to log into the portal for the first time.

Package	Registration
Sub-Package	-
Use Case Name	Update Registration
Use Case ID	UC-1.0
Actor(s)	Student, College, Student Union.
Brief Description	User retrieves their information entered during registering and can make required changes that are updated.
Pre-Condition(s)	User must be logged into the portal.
Post-Condition(s)	Changes are updated into the database.

Flow of Event(s)	**Actor Input**	**System Process and Response**
	Click on Update Registration Information.	
		Show an Update Registration Information form with the data retrieved from the database.
	Edit or delete the information and click on save	
		Save the updated information in the database.

Package	Registration	
Sub-Package	-	
Use Case Name	View Registration Information	
Use Case ID	UC-1.0	
Actor(s)	Student, College, Student Union.	
Brief Description	User can view their information and status on the portal.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print his registration information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	Click on View Registration Information.	
		Show users Registration information and their status in the portal.
	User can click on the print button.	
		Print the information displayed or save it as a PDF file.

NEWS AND EVENTS (UC-2.0)

Package	News and Events	
Sub-Package	-	
Use Case Name	Post News or Event.	
Use Case ID	UC-2.0	
Actor(s)	College and Student Union.	
Brief Description	User can post a news or event.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Information is stored in the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Post News or Post Event	
		System shows an appropriate form.
	User enters appropriate details in the form and clicks Post Button.	
		System stores information in the database and display's it on the user screen.

Package	News and Events	
Sub-Package	-	
Use Case Name	Update/Delete News or Event	
Use Case ID	UC-2.0	
Actor(s)	College and Student Union.	
Brief Description	User updates or deletes a news or event.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Update or Delete Button under the posted news or event.	
		System asks the user for delete confirmation if they have clicked a Delete button. System show an Update News or Event form if the user has clicked Update button.
	User confirms if he has pressed the delete button. User edits or deletes the information in the update form and click's on Save Changes button if the update button was clicked.	

		System deletes the posted news or event if the user has confirmed the deletion. System save's the updated information in the database if the user has clicked the Save Changes button.

Package	News and Events	
Sub-Package	-	
Use Case Name	View News and Events	
Use Case ID	UC-2.0	
Actor(s)	Student, College and Student Union.	
Brief Description	User can view all the posted News and Events.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on View News and Events Button.	
		System displays all the news and events on the
	User can sort the news and events date wise or can search for a particular news or	
		System processes the query and shows the resultant information on the user

COMMUNITY JOINT (UC-3.0)

COMMUNITY FORUM (UC-3.1)

Package	Community Joint	
Sub-Package	Community Forum	
Use Case Name	New Post	
Use Case ID	UC-3.1	
Actor(s)	Student	
Brief Description	User can add a post in their assigned community during registration for sharing information.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Information is stored in the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on Add Post button.	
		System displays the Add post form.
	User enters appropriate details in the form and clicks on Post Button.	
		System stores information in the database and displays the post to the user.

Package	Community Joint	
Sub-Package	Community Forum	
Use Case Name	Update/Delete Post	
Use Case ID	UC-3.1	
Actor(s)	Student	
Brief Description	User can update or delete their post.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Update or Delete Button under the post.	
		System asks the user for delete confirmation if the user has clicked a Delete button. System show an Update Post form if the user has clicked Update button.

	User confirms if he has pressed the delete button. User edits or deletes the information in the update post form and click's on Save Changes button if the update button was clicked.	
		System deletes the post if the user has confirmed the deletion. System save's the updated information in the database if the user has clicked the Save Changes button.

Package	Community Joint	
Sub-Package	Community Forum	
Use Case Name	View Posts	
Use Case ID	UC-3.1	
Actor(s)	Student	
Brief Description	User views all the post of their assigned community.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor**	**System Process and Response**
	User clicks on View Posts Button.	
		System displays all the post from the user's assigned community.
	User can sort the posts or can search for particular information.	
		System processes the query and shows the resultant information on the user screen.

SEARCH FOR HELP (UC-3.2)

Package	Community Joint	
Sub-Package	Search of Help	
Use Case Name	Search Help	
Use Case ID	UC-3.2	
Actor(s)	Student	
Brief Description	User can search other members of their community with particular skillsets willing to lend	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor**	**System Process and Response**
	User clicks on Search Help Button.	
		System displays the Search Help Form.
	User enters appropriate details and selects appropriate options in the form and clicks on Search Button.	
		System processes the form and shows the Name and Contact information of the appropriate members from user's assigned community.

BOOK JOINT (UC -3.3)

Package	Community Joint	
Sub-Package	Book Joint	
Use Case Name	Add Book/Note	
Use Case ID	UC-3.3	
Actor(s)	Student	
Brief Description	User can post an advertisement to sell or exchange a book or note.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Information is stored in the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on Add Book/Note button.	
		System displays the Add book or note Form.
	User enters appropriate details in the form and clicks on Add Advertisement button.	
		System processes the form and stores information in the database and displays the posted advertisement to the user.

Package	Community Joint	
Sub-Package	Book Joint	
Use Case Name	Update or Delete Book /Note	
Use Case ID	UC-3.3	
Actor(s)	Student	
Brief Description	User updates or deletes an advertisement regarding book or note posted by them.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Update or Delete Button under	
		System asks the user for delete confirmation if the user has clicked a Delete button. System show an Update Post form if the user has clicked Update button.
	User confirms if he has pressed the delete button. User edits or deletes the information in the update post form and click's on Save Changes button if the update button was clicked.	

		System deletes the post if the user has confirmed the deletion. System save's the updated information in the database if the user has clicked the Save Changes button.

Package	Community Joint	
Sub-Package	Book Joint	
Use Case Name	Search Book/Note	
Use Case ID	UC-3.3	
Actor(s)	Student	
Brief Description	User view can all the advertisements or can search for a particular Book or Note.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor**	**System Process and Response**
	User clicks on Search Book/Note.	
		System displays all the advertisement in the book joint section.
	User can sort the post or can search for particular Book or Note.	
		System processes the query and shows the resultant advertisements on the user screen.

SHOW CASE (UC-3.4)

Package	Community Joint	
Sub-Package	Showcase	
Use Case Name	Add Success Story or Testimonial	
Use Case ID	UC-3.4	
Actor(s)	College	
Brief Description	User can post a success story or testimonial of a student.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Information is stored in the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on Add Success story or Add	
		System display's a Add success story or Add testimonial form.
	User enters appropriate details in the forms and clicks the Post Button.	
		System processes the form, stores the information in the database and view's the post to the user.

Package	Community Joint	
Sub-Package	Showcase	
Use Case Name	Update/Delete Success Story or Testimonial	
Use Case ID	UC-3.4	
Actor(s)	College	
Brief Description	User can update or delete a success story or testimonial.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Update or Delete Button under their posted Success Story or Testimonial.	
		System asks the user for delete confirmation if the user has clicked a Delete button. System show an Update Success Story or T estimonial form if the user has clicked Update button.
	User confirms if he has pressed the delete button. User edits or deletes the information in the Update Success Story or Testimonial form and click's on Save Changes button if the update button was clicked.	

		System deletes the post if the user has confirmed the deletion. System save's the updated information in the database if the user has clicked the update button.

Package	Community Joint	
Sub-Package	Showcase	
Use Case Name	View Success Stories and Testimonials	
Use Case ID	UC-3.4	
Actor(s)	Student and College	
Brief Description	User views all the success stories and testimonials of students that were in their assigned community.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on View Success Stories and	
		System displays all the success stories and testimonials posted in assigned user's community.
	User can sort them or can search for particular one.	
		System processes the query and shows the resultant information on the user screen.

OFFERS AND PROMOTIONS (UC-4.0)

Package	Offers and Promotions	
Sub-Package	-	
Use Case Name	Add an Offer or Promotion	
Use Case ID	UC-4.0	
Actor(s)	College and Student Union	
Brief Description	User can post an ongoing offer or promotion.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Information is stored in the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Post Offer and Promotion.	
		System shows an Add offer and promotion form.
	User enters appropriate details in the form and clicks Post Button.	
		System stores information in the database

Package	Offers and Promotions	
Sub-Package	-	
Use Case Name	Update/Delete Offer or Promotion	
Use Case ID	UC-4.0	
Actor(s)	College and Student Union	
Brief Description	User updates or deletes a posted offer or promotion.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User click on Update or Delete Button under the posted offer and promotion.	
		System asks the user for delete confirmation if they have clicked a Delete button. System show an Update News or Event form if the user has clicked Update button.
	User confirms if he has pressed the delete button. User edits or deletes the information in the update form and click's on Save Changes button if the update button was clicked.	

		System deletes the posted news or event if the user has confirmed the deletion. System save's the updated information in the database if the user has clicked the Save Changes button.

Package	Offers and Promotions	
Sub-Package	-	
Use Case Name	View Offers and Promotions	
Use Case ID	UC-4.0	
Actor(s)	Student, College and Student Union	
Brief Description	User can view all the posted Offers and Promotions.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print the information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on View Offers and Promotions.	
		System displays all the Offers and Promotions on the user screen.
	User can sort the Offers and Promotions or can search for a particular offer or promotion.	
		System processes the query and shows the resultant information on the user screen.

INTERNATIONAL GUIDELINES (UC-5.0)

VISITOR REGISTRATION (UC-5.1)

Package	International Guidelines	
Sub-Package	Visitor Registration	
Use Case Name	New Registration	
Use Case ID	UC-5.1	
Actor(s)	Visitor	
Brief Description	User can register themselves as an visitor to the website to get information about the colleges,	
Pre-Condition(s)	User must have their personal email id.	
Post-Condition(s)	User can login the portal using their username and password.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	ii. Clicks on New Registration.	
		iii. Shows a Registration form.
	iv. Enters appropriate information along with a valid email id. Clicks on VERIFICATION Button.	
		iv. Validates the form information like availability of the username and password strength and sends an activation number with username and password to the user's college email id.
	v. Accesses their college mail account to retrieve the activation number and enters it in the form and clicks the REGISTER Button.	
		iv. Process the information, assigns an visitor status to the user and stores information in the database. Allows the user to log into the International Guideline Section for the first time.

Package	International Guidelines
Sub-Package	Visitor Registration
Use Case Name	Update Registration
Use Case ID	UC-5.1
Actor(s)	Visitor

Brief Description	User retrieves their information entered during registering and can make required changes that are updated.
Pre-Condition(s)	User must be logged into the portal.

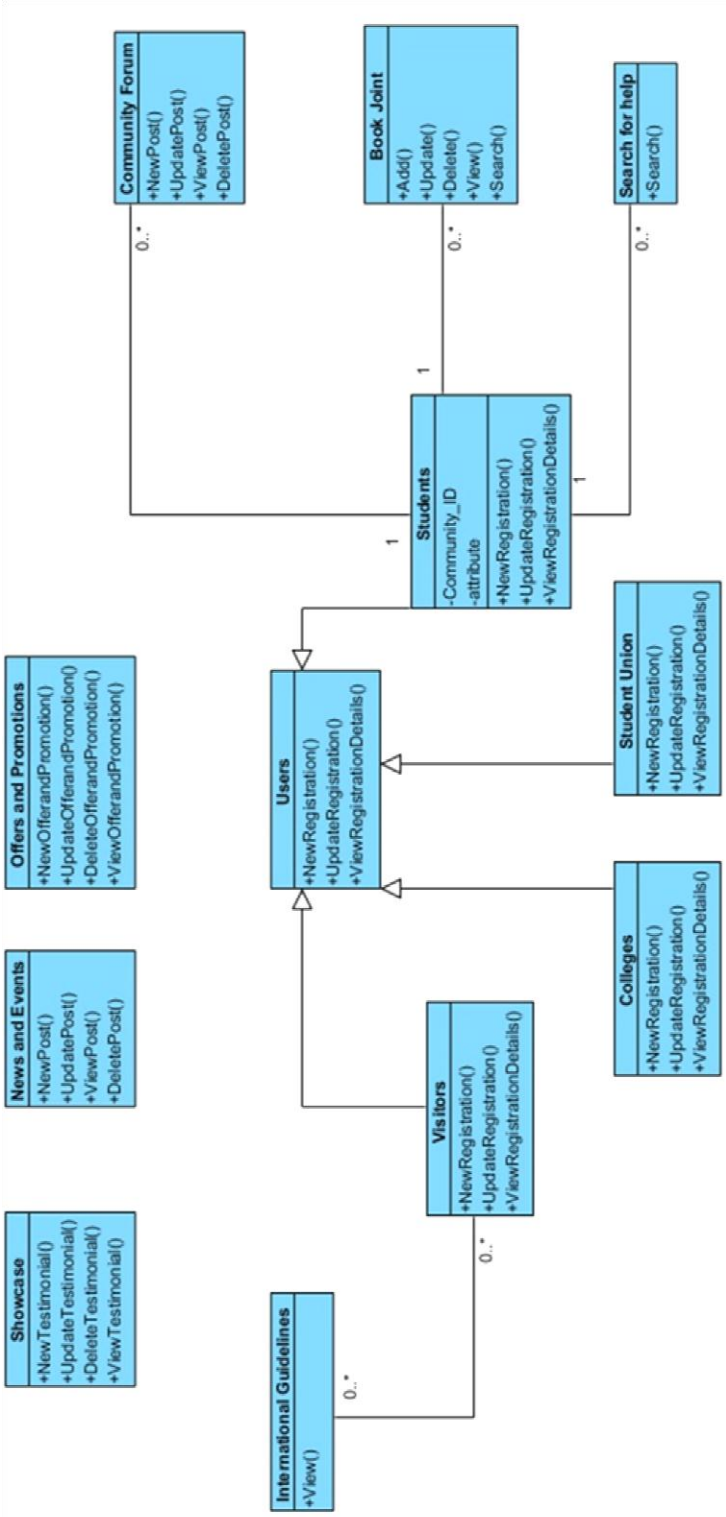
Post-Condition(s)	Changes are updated into the database.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	Click on Update Registration Information.	
		Show an Update Registration Information form with the data retrieved from the database.
	Edit or delete the information and click on save button.	
		Save the updated information in the database.

Package	International Guidelines	
Sub-Package	Visitor Registration	
Use Case Name	View Registration Information	
Use Case ID	UC-5.1	
Actor(s)	Visitor	
Brief Description	User can view their information and status on the portal.	
Pre-Condition(s)	User is logged in the portal.	
Post-Condition(s)	User can print his registration information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	Click on View Registration Information.	
		Show users Registration information and their status in the portal.
	User can click on the print button.	
		Print the information displayed or save it as a PDF file.

GUIDELINES (UC-5.2)

Package	International Guidelines	
Sub-Package	Guidelines	
Use Case Name	View/Search Guidelines	
Use Case ID	UC-5.2	
Actor(s)	Visitor	
Brief Description	User can view their information and status on the portal.	
Pre-Condition(s)	User is logged in the portal as visitor.	
Post-Condition(s)	User can print the available information.	
Flow of Event(s)	**Actor Input**	**System Process and Response**
	User clicks on View/Search Guideline.	
		System displays all the Guidelines on the user screen.
	User can search for particular college information or for a particular guideline.	
		System processes the query and shows the resultant information on the user screen.

CLASS DIAGRAM



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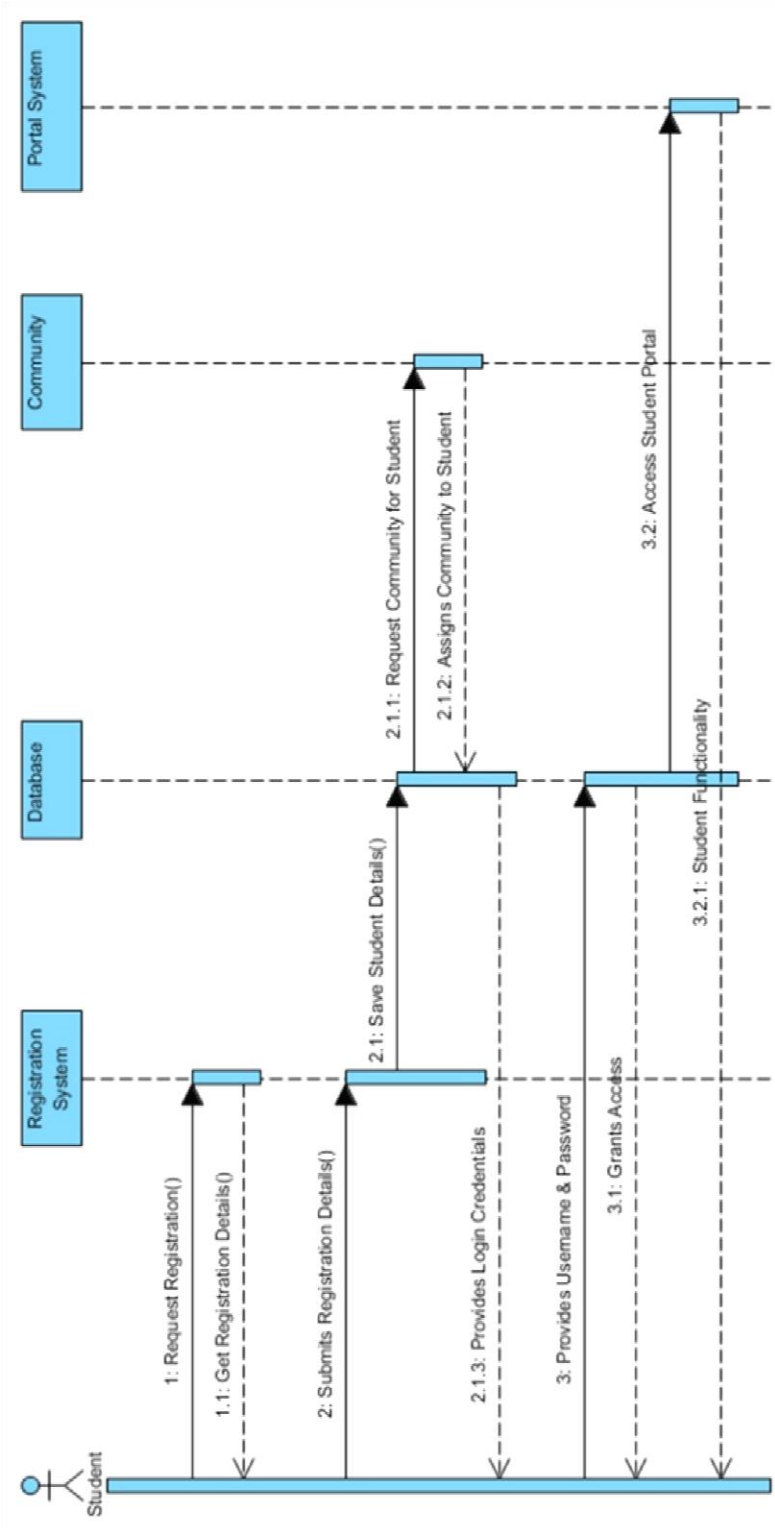
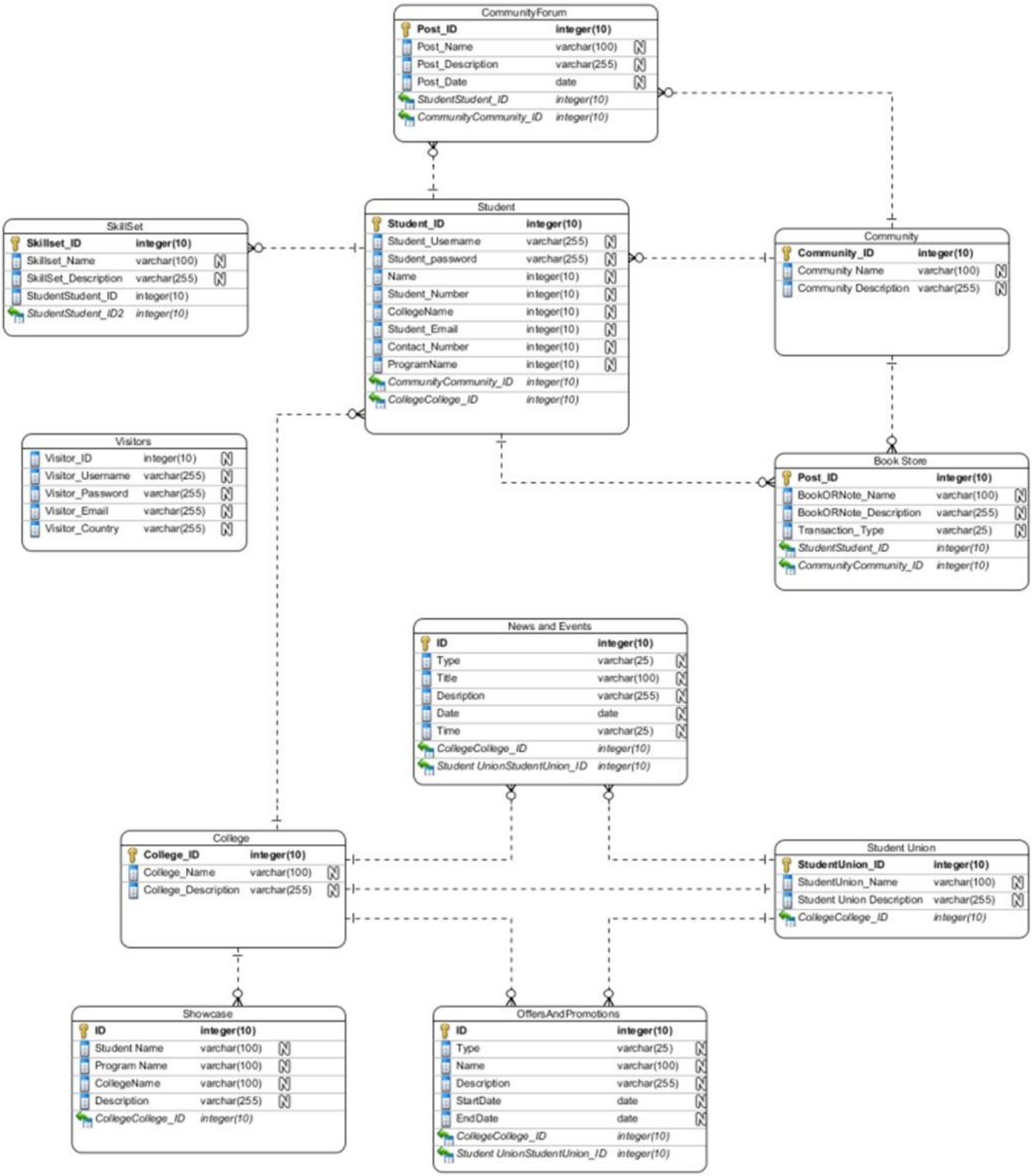
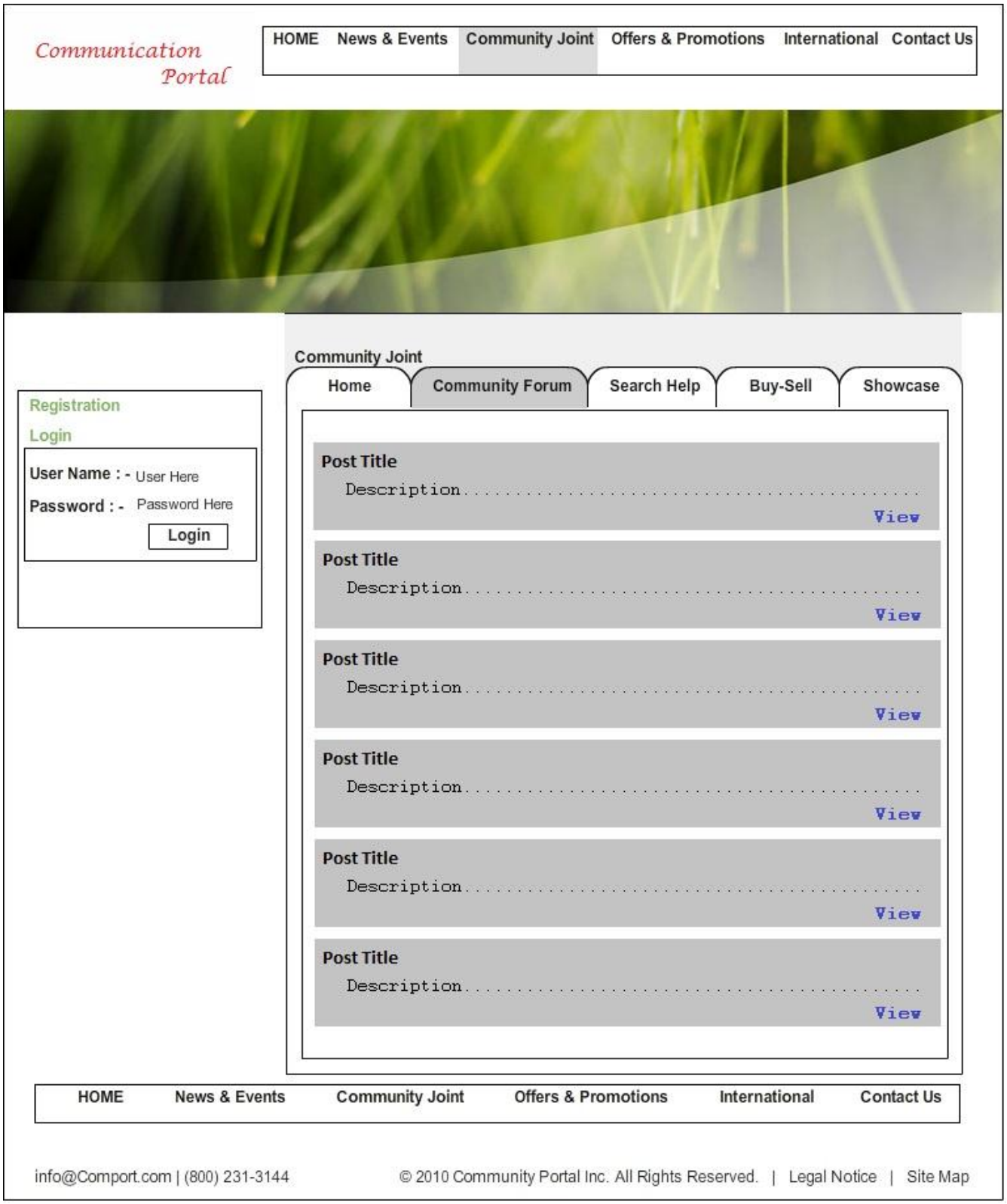


ENTITY RELATIONSHIP DIAGRAM



INTERFACE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