CARLETON UNIVERSITY



Requirement Analysis Document

Prepared by Team

GAME OF CODES

Submitted to:

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1. Introduction/ Overview

Doesn't matter what industry you work in, unless you are working completely by yourself chances are you will end up working with co-workers, managers etc. Team-work is very important in today's work-place and also in school. It can provide you a glimpse of what to expect when interaction becomes absolutely necessary in the so-called "real world", and more importantly it exposes you to ideas, thoughts and solutions to a problem you might have never even given a thought to. Team-work also provides added benefit of emotional support from your team-members. Being able to work efficiently with a group is a great interpersonal skill one can possess for their success, especially while they are still in school.

Universities are incorporating group work to help students acquire these skills. But a problem many groups face is having a team of incompatible people. This could manifest as a group being strong in one aspect but weak in another. To help build well managed and cohesive teams, a system was devised to sort students in optimal groups, called the Carleton University Project Partner Identifier (cuPID). The system generates teams by matching compatibility or different students to ensure a well balanced team.

cuPID is a system where administrators can create projects and students can sign up into the projects. The cuPID system has a very unique algorithm called the "Project Partner Identifier" (PPID). The Algorithm groups students together based on a questionnaire that each student is required to complete during registration into the cuPID system.

The questionnaire for the students has two parts. First part focuses on, the registering student's strengths, weaknesses and study habits. The second part focuses on what the registering student is looking for in their desired team-member(s). Students do not have access to other students' profile, all the student profiles are kept private and their academic records are kept confidential.

The administrator is the "Instructor" of any given course and is responsible for creating projects for students to register in. The administrator fills all the necessary description and information about the project. Once the students have registered into their desired projects, the administrator sets the group size and runs the PPID algorithm.

Our algorithm facilitates building a team of compatible students well equipped to complete the task proficiently.

The enclosing document gives a detailed over-view of the functionality and highlights requirements of the system to accomplish the desired task.



2. Functional Requirements

Functional Requirements for the cuPID system allows its two different users, the **Administrators** and the **Students**, to have different functionality. The **students** are allowed to register in projects and keep track of the projects they are registered in. The **Administrators** are provided a way to create projects, keep track of its created projects and form **student** groups for each project.

Table 1 - Functional Requirements

Tubic 1	Tunctional Requirements
F-01	Administrator can manage project properties
F-01-01	Create project
F-01-02	Change existing project's team sizes
F-01-03	Change existing project's name
F-01-04	Administrator can view a project
F-02	Administrator can run the PPID algorithm to create groups
F-03	Administrator can modify the PPID
F-03-01	Change the weighting of each question asked
F-04	Student can create a profile and register in the cuPID system
F-05	Student can register in a project
F-06	Student can edit own profile
F-07	Student can edit project partner profile
F-08	Student can view list of existing projects
F-09	cuPID system can store a list of projects
F-10	cuPID system can store a list of registered students and their profiles
F-11	cuPID system can match students based on their profile answers and team sizes
F-12	cuPID system can output a "Summary Print" listing all students in their teams
F-13	cuPID system can output a "detailed print" which includes a "Summary Print" plus data
supportin	ng results
F-14	Student can view Project
F-15	Student can view profile



3. Non-Functional Requirements

Non-functional requirements for the cuPID system provide an elegant visual interface for the users and reliable storage for the data associated with the **Students**, Projects and **Administrators**. It also allows high level of security and privacy on how the data is shared among users.

Table 2 - Non-Functional Requirements

NF-01	Usability: Menu based on qualitative questions
NF-02	Usability: Every window has instructions on how to use current menu
NF-03	Usability: Administrators cannot access student profiles
NF-04	Usability: Students cannot see each other profiles
NF-05	Usability: "Summary Printouts" do not reveal confidential information
NF-06	Usability: Provide a detailed and clear help menu of instructions
NF-07	Usability: Provide confirmation of save and cancel to the user
NF-08	Usability: Provide the user with a detailed error message with a cause of the error
NF-09	Usability: Error messages will stop the system from advancing until corrected
NF-10	Usability: Students access their profiles by the student ID
NF-11	Reliability: Student profiles will be saved if the system crashes while PPID is running
NF-12	Reliability: Project will be saved once fully created
NF-13	Reliability: Student profiles will be saved once fully created
NF-14	Performance: The PPID algorithm will run within 5 minutes for every 100 students
NF-15	Supportability: The system will be portable on any Linux system
NF-16	Supportability: System is extensible to another GUI with only changing the UI classes
NF-17	Implementation: System will be written in C++ in QT
NF-18	Packaging: system will be available for download as a collection of object files with a MAKE file for easy compilation
NF-19	Interface: Students are not allowed access to Administrator's interface.
NF-20	Interface: Administrator is not allowed access to Students' interface.
NF- 21	Operation: Errors are accurately display to the users.
NF-22	Legal: All the user information is kept private from other user's.
NF- 23	Legal: All user information collection into the system will not be shared with or sold to any Third-party.
NF-24	Operation: The system will not proceed unless and until the error is corrected by the user.



4. Use Case Model

Use Case Overview

Use cases are diagrams that outline the list of steps required to complete a task in the system. They show the what each Actor is allowed to do. The two actors in the cuPID system are the Student and the Administrator.

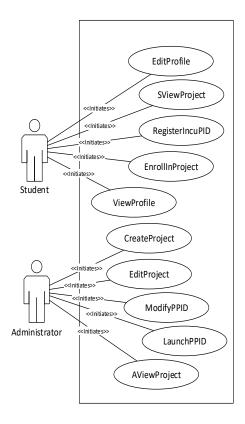


Figure 1 - High-Level Use Case Diagram

Table 3 - High-level Use Case Descriptions

UC-01	CreateProject	Administrator creates a new project
UC-02	EditProject	Administrator edits or views properties of a project
UC-03 studen	LaunchPPID ts	Administrator runs the PPID on a project with the enrolled
UC-04	ModifyPPID	Administrator modifies properties of the PPID
UC-05	RegisterIncuPID	Student registers in the cuPID system
UC-06	EnrollInProject	Student enrolls to be part of a project
UC-07	EditProfile	Student edits their profile
UC-17	AViewProject	Administrator views projects posted
UC-18	ViewProfile	Student views their profile
UC-19	SViewProject	Student views their Project



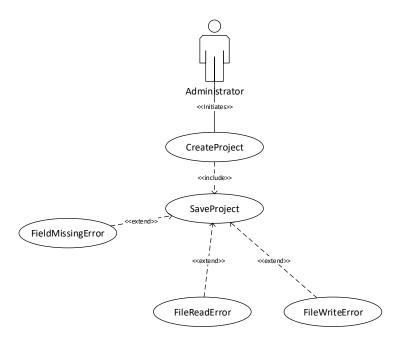


Figure 2 - CreateProject Detailed Use Case Diagram

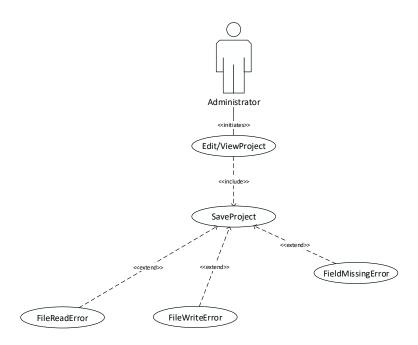


Figure 3 – EditProject Detailed Use Case Diagram



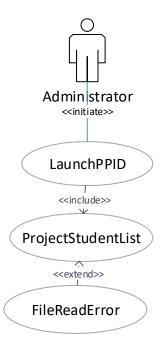


Figure 4 - LaunchPPID Detailed Use Case Diagram

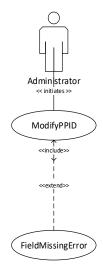


Figure 5 - ModifyPPID Detailed Use Case Diagram



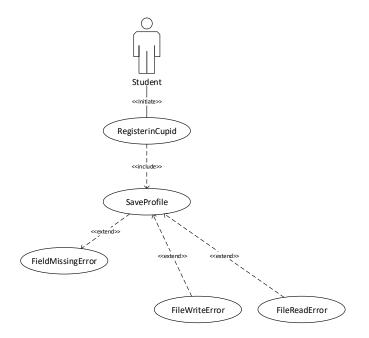


Figure 6 - RegisterIncuPID Detailed Use Case Diagram

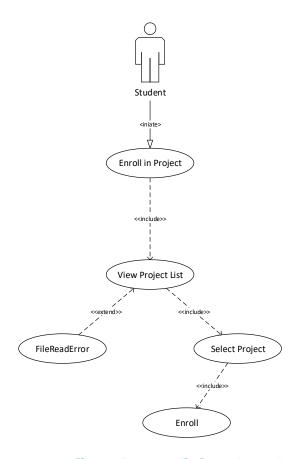


Figure 7 - EnrollInProject Detailed Use Case Diagram



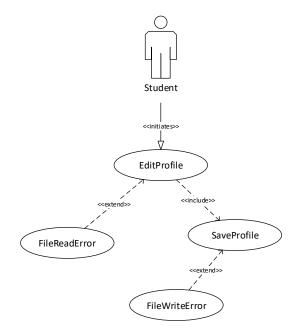


Figure 8 - EditProfile Detailed Use Case Diagram

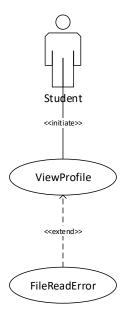


Figure 9 - ViewProfile Detailed Use Case Diagram



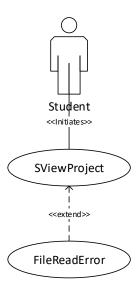


Figure 10 - SViewProject Detailed Use Case Diagram

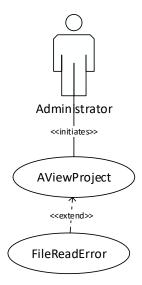


Figure 11 - AViewProject Detailed Use Case Diagram



Table 4 - Detailed Use Case Descriptions

UC-08 FileReadError	File Containing project list could not be opened
UC- 09 FileWriteError	Error writing to the file
UC-10 FieldMissingError	Administrator or Student tries to save project changes with a field
missing	
UC-11 ProjectStudentList	PPID accesses list of students enrolled in the project
UC-12 SaveProfile	Student saves the profile
UC-13 ViewProjectList	Student views list of projects to register in
UC-14 SelectProject	Student selects project to enroll into
UC-15 Enroll	Student Enrolls in select Project
UC-16 SaveProject	Administrator saves project

Use Case Flow of Events:

Use Case Identifier	UC-01
Name	Create Project
Participating actors	Initiated by Administrator
Flow of Events	
	The Administrator chooses to create a new project.
	 The system responds by providing a form.
	The Administrator fills out the required field to create a project.
	 The system checks if all the required fields were filled out by
	Administrator
	The Administrator chooses to save the project.
	 The System records the provided information and creates a new
	project.
Entry Conditions	Administrator must be logged in
Exit Conditions	Administrator chooses to save project and it was saved successfully
Quality requirements	Only Administrator should be able to create projects
Traceability F-01-0	1

Use Case Identifier	UC-02
Name	Edit Project
Participating actors	Initiated by Administrator
Flow of Events	
	The Administrator chooses to edit a project
	 The system responds by providing a form
	The Administrator fills out the required field to edit the project.
	 The system checks if all the required fields
	The Administrator chooses to save the project.
	 The System records the provided information and over-writes
	the information in the project being edited.
Entry Conditions	1. Administrator must be logged in
	2. Project must already exist
Exit Conditions	Administrator chooses to save project and changes are saved successfully
Quality requirements	User must be logged in with administrator privileges.
Traceability F-01-0	2, F-01-03, F-09, F-10



Use Case Identifier	UC-03
Name	LaunchPPID
Participating actors	Initiated by Administrator
Flow of Events	
	 The administrator chooses to launch a PPID on a project. The system responds by providing a form The administrator fills out the required fields to configure the PPID The system checks if all the required fields The administrator chooses to save the PPID. The System records the provided information The system retrieves the project The system launches the new PPID on a project
Entry Conditions	1. Administrator must be logged in
-	2. Project must already exist upon which the PPID is launched
Exit Conditions	The administrator launches the PPID on a project.
Quality requirements	Only administrator can launch a PPID.
Traceability F-02, F	F-11, F-12, F-13

Use Case Identifier	UC-04
Name	ModifyPPID
Participating actors	Initiated by Administrator
Flow of Events	
	Administrator chooses to modify PPID
	 Administrator can chooses between provided algorithm options
	 Administrator can choose the group size option on PPID
	0
Entry Conditions	Administrator must be logged in
Exit Conditions	The Administrator would be registered into the project successfully and it would
reflect in the student '	s project list
Quality requirements	Only Administrator should be able to modify PPID
Traceability F-03	



Use Case Identifier	UC-05
Name	RegisterIncuPID
Participating actors	Initiated by Student
Flow of Events	
	Student chooses to register into the cuPID program
	 The system responds by providing a form
	Student provides the required fields to register into cupid
	 The system checks if all the required fields
	The Student saves the project
	 The system updates the fields with provided information
Entry Conditions	Student must be logged in
Exit Conditions	The Student would be registered into the cuPID successfully and the system
would update the stor	rage to reflect this change.
Quality requirements	Only Student should be able to register in cuPID
Traceability F-04, F	- -08

Use Case Identifier	UC-06
Name	EnrollInProject
Participating actors	Initiated by Student
Flow of Events	
	 The Student chooses to see the project list. The system acquires the project list from the Storage The System displays project list. Student chooses a project from the list. The system provides the option to register in the chosen project. Student enrolls in chosen project. The System records the student name and student number and
Entry Conditions	updates the project data. Student must be logged in
Exit Conditions	The student would be registered into the project successfully and it would
reflect in the student's	s project list
Quality requirements	Only Student should be able to enroll into projects
Traceability F-05, F	F-08



Use Case Identifier	UC-07
Name	Edit Profile
Participating actors	Initiated by Student
Flow of Events	 The Student chooses to edit/view their profile. The system acquires the profile information from the Storage The System displays profile information. Student edits the profile if desired. Student saves the Profile The System records the changes made to profile and updates students information in storage
Entry Conditions	Student must be logged in
Exit Conditions	The student would be registered into the cuPID program
Quality requirements	Only Student should be able to edit profile
Traceability F-06,	F-07 , F-10

Use Case Identifier	UC-08		
Name	FileReadError		
Participating actors	Communicates with Administrator and Student		
Participating actors Flow of Events	 The Administrator chooses to save a newly created project. The system tries to access the project list file from the Storage but is unable to open the file because the file is missing The Administrator chooses to save a project that was edited. The system tries to access the project list file from the Storage but is unable to open the file because the file is missing The Administrator chooses to run the PPID on a project with enrolled Students. The system tries to access the list of students enrolled in to the project file but is unable to open it because the file is missing The Administrator chooses to save the edited PPID The system tries to access the PPID file but is unable to open it because it is missing The Student chooses to register in the system and save the newly created profile 		
	 The system tries to access the registered students file but is unable to open the file because it is missing 		
	The Student chooses to enroll in a project		
	The system tries to access the file of registered students in a		
Futur Conditions	project but is unable to because the file is missing		
Entry Conditions	Administrator or Student must be logged in		
Exit Conditions	The system will create a new file and save the necessary information		
Quality requirements	· · · · · · · · · · · · · · · · · · ·		
Traceability	F-09, F-10, NF-8, NF-9		



Use Case Identifier	UC-09		
Name	FileWriteError		
Participating actors	Communicates with Administrator and Student		
Flow of Events	 The Administrator chooses to save a newly created project. The system opens the file from storage that has the list of all the projects The system tries to append to this file the name of the newly created project but is unable to because the project name already exists The Administrator chooses to save a project that was edited. The system opens the project file from the Storage 		
	 The system tries to modify to this file but is unable to due to system write errors 		
	 The Administrator chooses to run the PPID on a project with enrolled Students. The system opens the list of students enrolled in a project The system runs the PPID on the list of students and make groups but is unable to update the individual project's details on storage The Administrator chooses to save the edited PPID The system opens the PPID file The system tries to write the modifications to the file but is unable to because certain input files are missing The Student chooses to register in the system and save the newly 		
	 created profile The system opens the file with the list of students registered in the system The system tries to write the student to the file but is unable to because the student number already exists in the file The Student chooses to enroll in a project The system opens the file of the registered students in a project The system tries to add the student to the project but is unable to because the student number already exists in the file 		
Entry Conditions	Administrator or Student must be logged in		
Exit Conditions	The system prompt the user of the error		
Quality requirements Traceability	The system should not make a duplicate project name of student number F-09, F-10, NF-8, NF-9		



Use Case Identifier	UC-10		
Name	FieldMissingError		
Participating actors	Communicates with Administrator and Student		
Flow of Events			
	 The Administrator chooses to save a newly created project. 		
	The system checks to make sure all of the required fields have		
	been filled out		
	 The system finds a required field that is missing and prompts the Administrator to fill it before it can proceed 		
	The Administrator chooses to save a project that was edited.		
	 The system checks to make sure all of the required fields have been filled out 		
	 The system finds a required field that is missing and prompts the Administrator to fill it before it can proceed 		
	The Administrator chooses to save the edited PPID		
	The system checks to make sure all of the required fields have		
	been filled out		
	 The system finds a required field that is missing and prompts the Administrator to fill it before it can proceed 		
	The Student chooses to register in the system and save the newly		
	created profile		
	The system checks to make sure all of the required fields have		
	been filled out		
	 The system finds a required field that is missing and prompts 		
	the Student to fill it before it can proceed		
Entry Conditions	Administrator or Student must be logged in		
Exit Conditions	The Administrator or Student must fill out the missing field or fields		
Quality requirements	The system should not be able to proceed when required attributes are missing		
Traceability	F-01-01, F-03, F-04, F-06, F-07, F-09, F-10, NF-8, NF-9		

Use Case Identifier	UC-11	
Name	Project Student List	
Participating actors	Communicates with the Administrator	
Flow of Events	ıts	
	Administrator runs the PPID	
	 The system uses the PPID algorithm provided by the Administrator, 	
	using the enrolled list of students in the project for making groups	
Entry Conditions	Administrator must be logged in	
Exit Conditions	PPID runs successfully and groups are made	
Quality requirements	Only Administrator must be allowed to run PPID	
Traceability	F-01-01, F-02, F-03, F-05, F-09, F-10, F-11, F-12, F-13, NF-05, NF-14	



Lles Coss Identifier	UC-12	
Use Case Identifier	0C-12	
Name	SaveProfile	
Participating actors	Communicates with the Student	
Flow of Events		
	 The student chooses to register into CuPID and create new profile or edit an existing one. Once done the student saves the profile created. The system checks to make sure all of the required fields have been filled out The system finds required fields that are missing and prompts the student to fill them before it can proceed 	
Entry Conditions	Student must be registered and logged in	
Exit Conditions	Profile was complete and successfully saved	
Quality requirements	Student can only create/edit and save their profiles	
Traceability	F-04, F-06, F-07, NF-04, NF-13	

Use Case Identifier	UC-13	
Name	ViewProjectList	
Participating actors	Initiated by Student	
Flow of Events		
•	Student chooses to view project list	
	 The system retrieves the project list from the storage 	
	 The system responds by displaying the project list 	
Entry Conditions	Student must be logged in	
Exit Conditions	The student is finished viewing the project list and closes the project list	
Quality requirements	Only registered students should be able to view project list	
Traceability F-08		



Use Case Identifier	UC-14		
Name	SelectProject		
Participating actors	Initiated by Student		
Flow of Events	initiated by Student		
•	Student chooses to view project list and selects the project he or she wants to enroll in. O The system retrieves the project list from the storage O The system responds by displaying the project list for the student.		
Entry Conditions	Student must be logged in		
Exit Conditions	The Student selects a project that he or she wants to be registered in.		
Quality requirements	The Student selects a project that he of she wants to be registered in.		
Quanty requirements	 Only a Students with a complete and valid student profile and partner profile would be able to view project list 		
Traceability	F-08, F-14		
Use Case Identifier	UC-15		
Name	Enroll		
Participating actors	Initiated by Student		
Flow of Events			
•	Student chooses to enroll in selected project		
	 The system responds by adding the student to the project and adding 		
	the project to the student's project list.		
	 The system updates storage. 		
	o The system aparties storage.		
Entry Conditions	Student must be logged in		
Exit Conditions	The student successfully enrolls into the selected project.		
Quality requirements	The student successibility enrolls into the selected project.		
Quality requirements	 Only a Student with a complete and valid student profile and partner 		
	, , , , , , , , , , , , , , , , , , , ,		
Tracophility	profiles would be able to enroll into a project. F-05		
Traceability	F-03		
Use Case Identifier	UC-16		
Name	SaveProject		
Participating actors	Initiated by Administrator		
Flow of Events	minuated by Administrator		
riow of Events	Administrator erector a project and trice to seve it		
•	Administrator creates a project and tries to save it.		
	The system checks if all fields required creating a project is fulfilled. The system checks if all fields required creating a project is fulfilled.		
	The system responds saving the project and updating the storage.		
	 The system updates the Administrators information so it reflects the 		
	changes made.		
Entry Conditions	Administrator must be logged in and administrator is trying to create a project		
Exit Conditions	The System saves the project		
Quality requirements	Only administrator should be able to create and save a project		

Quality requirements Only administrator should be able to create and save a project

F-01-01, F-01-02, F-01-03



Use Case Identifier	UC-17	
Name	AViewProject	
Participating actors	Initiated by Administrator	
Flow of Events		
	The Administrator chooses to view a project.	
	 The system responds by providing detailed view of the chosen 	
	project.	
	The Administrator chooses to close the project view.	
Entry Conditions	Administrator must be logged in	
Exit Conditions	Administrator chooses to close the project view.	
Quality requirements	The Administrator gets to see the title, description and number of students	
	enrolled in the project .	
Traceability F-01-0	4	

Use Case Identifier	UC-18	
Name	ViewProfile	
Participating actors	Initiated by Student	
Flow of Events	w of Events	
•	Student chooses to view profile.	
	 The system responds by showing the view of their profile. 	
Entry Conditions	Student must be logged in and registered.	
Exit Conditions	Student dismisses the view	
Quality requirements	A Student can only view their own profile	
Traceability	F-15, NF-04. NF-10. NF-22	

Use Case Identifier	UC-19	
Name	SViewProject	
Participating actors	Initiated by Student	
Flow of Events		
	The Student chooses to view a Project.	
	 The system responds by providing a view of the Project 	
Entry Conditions	1. Student must be logged in	
	2. Project must already exist upon view	
Exit Conditions	The Student dismisses the view.	
Quality requirements	Student can view Project title and description .	
Traceability	F-14	

5. Object Model

The object model is focused on the entity objects of the cuPID system. It defines what the entity objects are as well as their associations and attributes.

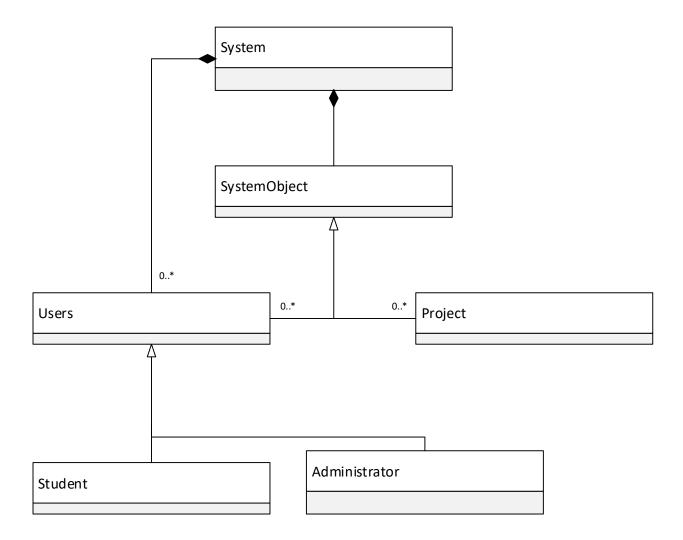


5.1. Data Dictionary

Entity Object	Attributes / Associations	Definitions
User	UserNumber	 A user is a person who can access the cuPID system.
		 A user can be either a student or an Administrator.
	UserName	
Administrator	 PPID ListOfAllTheProjects 	 The Administrators are the user with the highest privileges in the cuPID system. The Administrators can create a new project. The Administrators can edit an existing project. Only the Administrators can access the PPID. Only the Administrators launch the PPID. Only the Administrators can modify the PPID. Only Administrators can view the students enrolled in a project.
Student	 StudentNumber StudentName PersonalProfile PartnerProfile ListOfEnrolledProjects 	 A student is required to fill out the partner profile in order to register into cuPID project. A student is required to fill out their own profile in order to register into cuPID project. A student can view the list of the projects available. Student can enroll to one or more available projects. A student can modify their own profile. A student can modify their partner profile.
Projects	 ProjectName StudentLists PPIDAlgorithm ListOfStudents ProjectID 	 Projects hold description and list of students enrolled in it at a time. Projects are created and modified by the Administrator. Projects can be viewed and be enrolled into by the students. Projects are accessed differently by the Administrators and students. An Administrator has the highest privileges in the projects.



5.2 Class Diagram



6. Dynamic Model

A dynamic model is the representation of how the system behaves overtime. Here the state machine diagrams of the cuPID system. It is represented using two diagrams, the state machine and sequence diagrams. The state machine diagrams show the different state an entity object can have whereas the sequences diagram show the procedural behavior of the use-case. The sequence diagram shows how actors boundary objects, control objects and entity objects interact with each other.



6.1 State Machine Diagrams

State machine for Student entity object (UC - 05, UC-06):

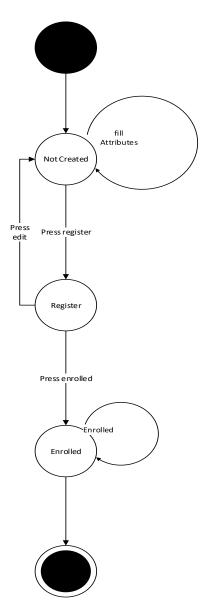


Figure 9 – Student RegistersincuPID and Enrolls in Project



State machine for Student entity object (UC - 05):

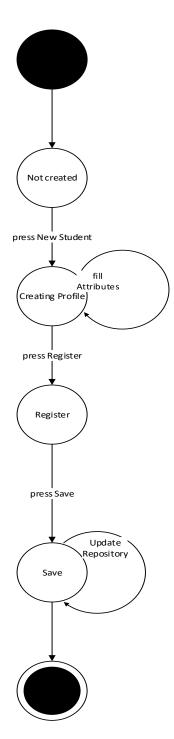


Figure 10 - Student Registers in cuPID



State machine for Student entity object (UC - 07):

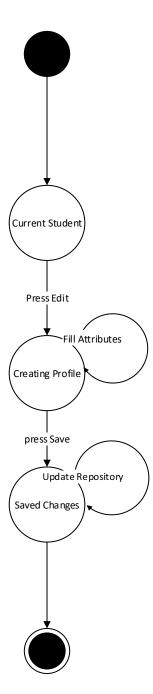


Figure 11 - Current Student Edits Profile



State machine for Administrator entity object (UC - 01):

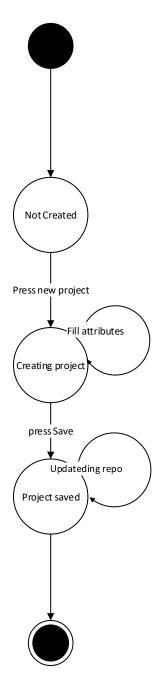


Figure 12 - CreateNewProject



State machine for Administrator entity object (UC - 02):

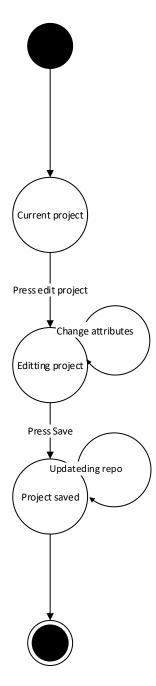


Figure 13 – Edit Project



:NewProjectB utton Repository Adminstrator :NewProject Control :NewProjectForm press() <<create>> <<create>> <<fill Attributes> saveProject()--newProjectInfo() :SaveProjectNotifi cation -save()dismiss()-<<create>> notifySave()-

Sequence Diagram for CreateProject (UC - 01):

Figure 14 - CreateProject Sequence Diagram



Sequence Diagram for EditProject (UC -02):

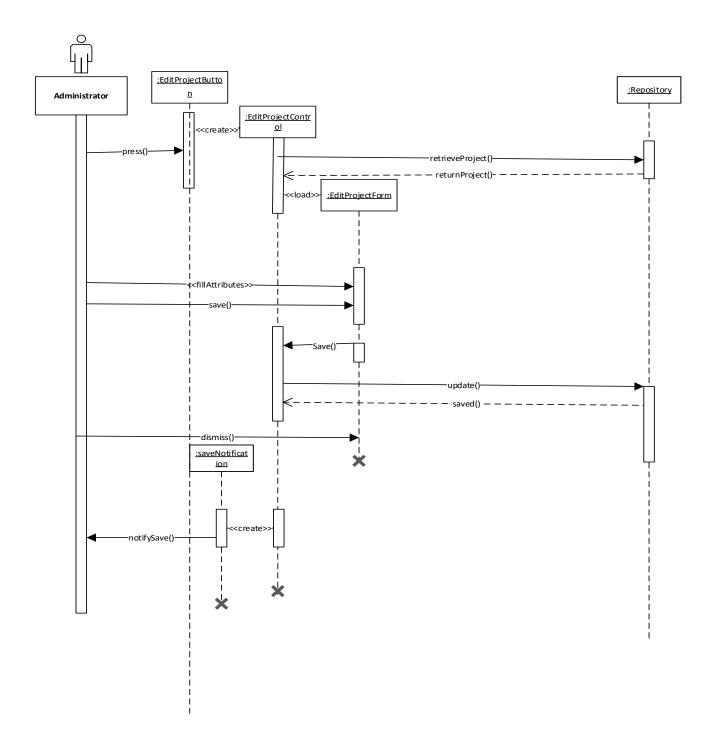


Figure 15 - EditProject Sequence Diagram



Administrator Administrator ViewProjectCon I/O retrieveProject() retrieveProject() retrieveProject() Administrator retrieveProject() retrieveProject()

Sequence Diagram for ViewProject (UC - 17):

Figure 16 - ViewProject Sequence Diagram for Administrator



Sequence Diagram for LaunchPPID (UC - 03):

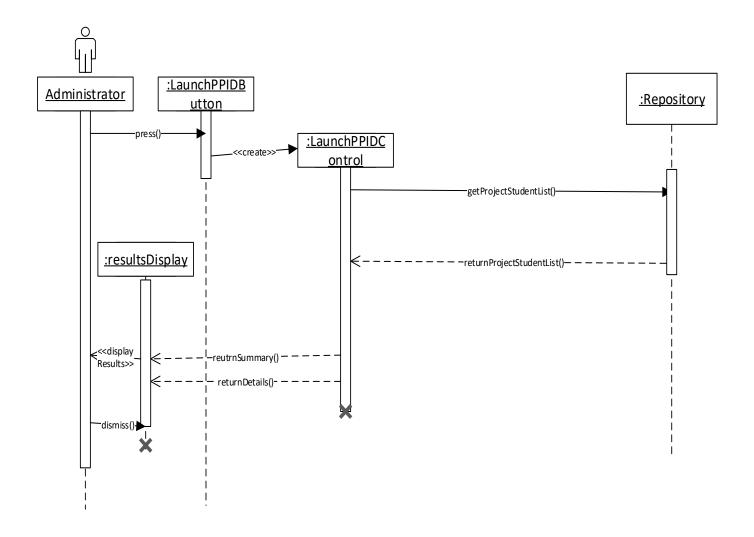


Figure 17 - LaunchPPID Sequence Diagram



Sequence Diagram for ModifyPPID (UC - 04):

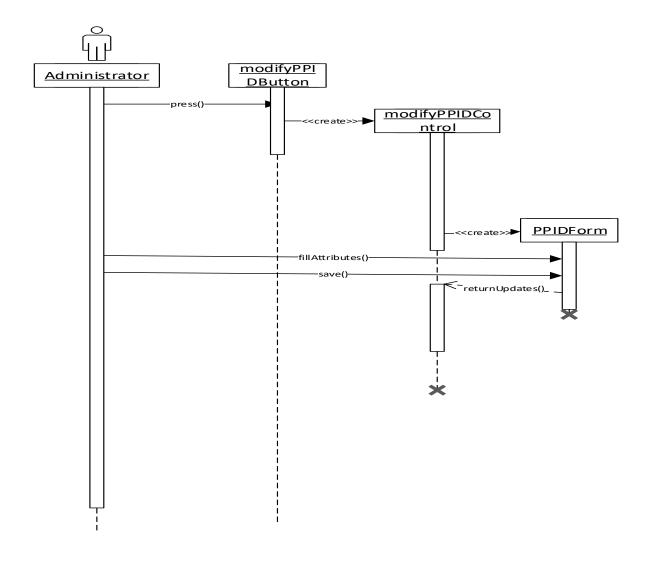


Figure 18 - ModifyPPID Sequence Diagram



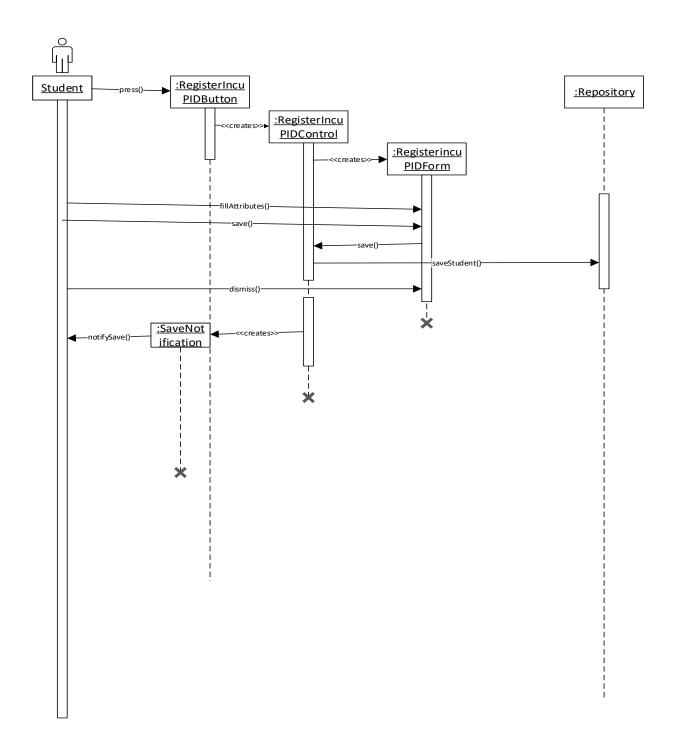


Figure 19 - RegisterInCupid Sequence Diagram



Sequence Diagram for EnrollInProject (UC - 06):

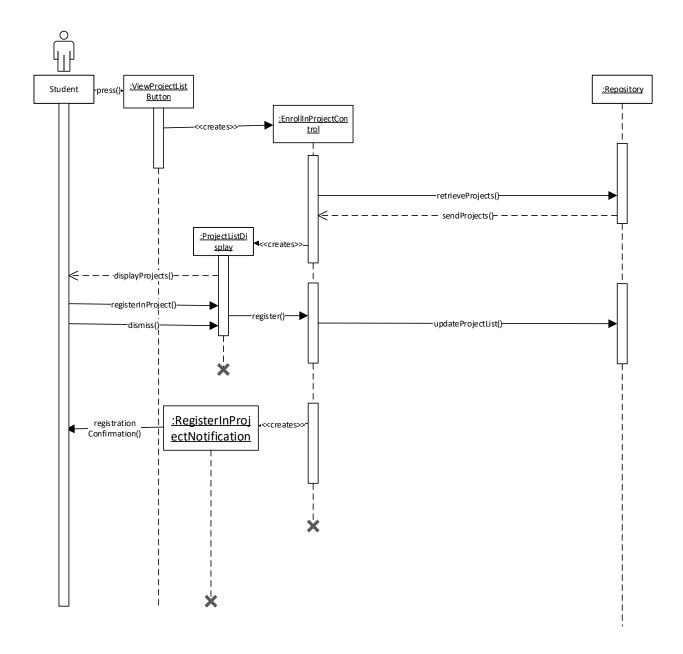


Figure 20 - EnrollInProject Sequence Diagram



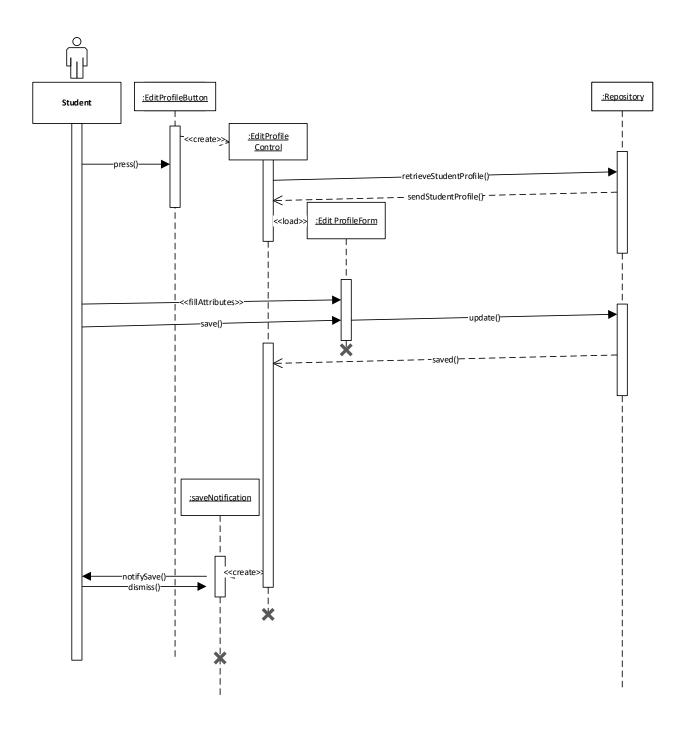


Figure 21 – EditProfile Sequence Diagram



Sequence Diagram for ViewProfile (UC - 18):

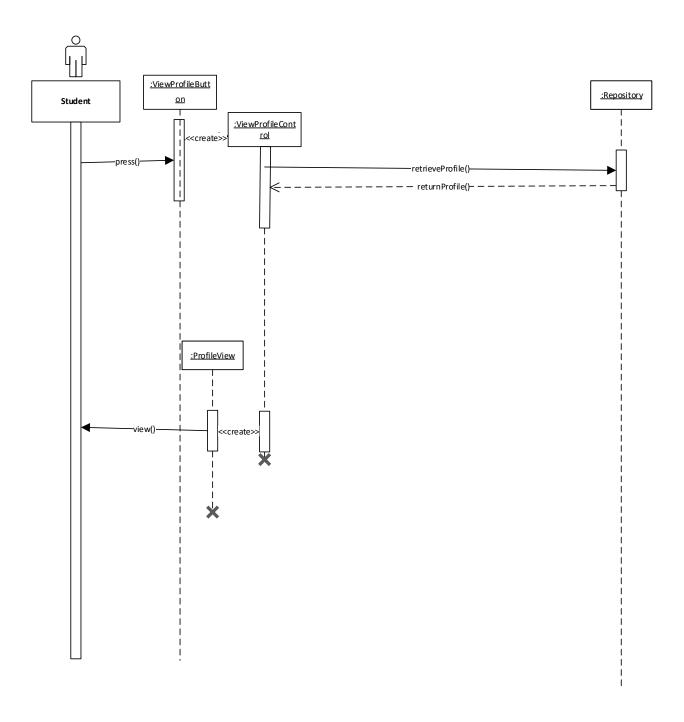


Figure 22 - ViewProfile Sequence Diagram



Sequence Diagram for ViewProject (UC - 19):

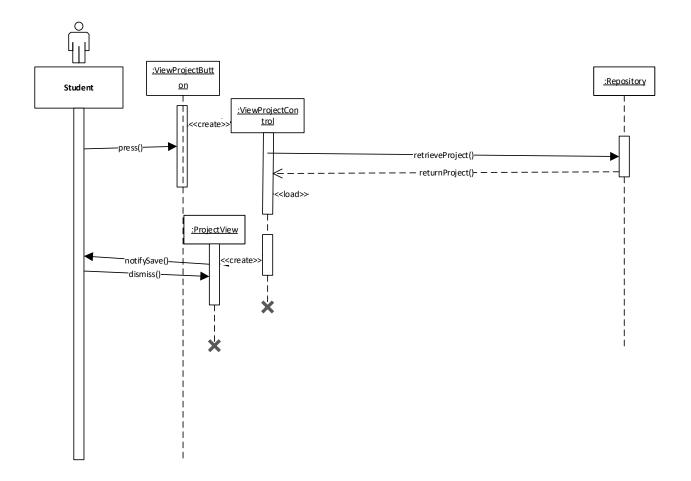


Figure 23 - ViewProject Sequence Diagram for Student



Sequence Diagram for EditProjectReadError (UC - 08, UC - 02):

Figure 24 - EditProjectReadError Sequence Diagram



Sequence Diagram for LaunchPPIDReadError (UC - 08, UC - 03):

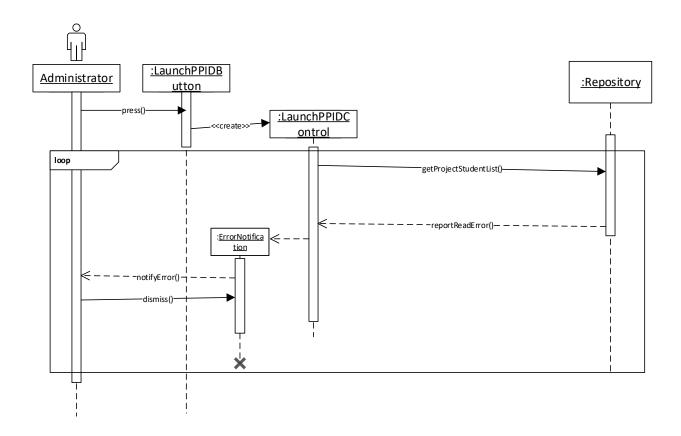


Figure 25 - LaunchPPIDReadError Sequence Diagram



Sequence Diagram for EnrollProjectReadError (UC - 08, UC - 06):

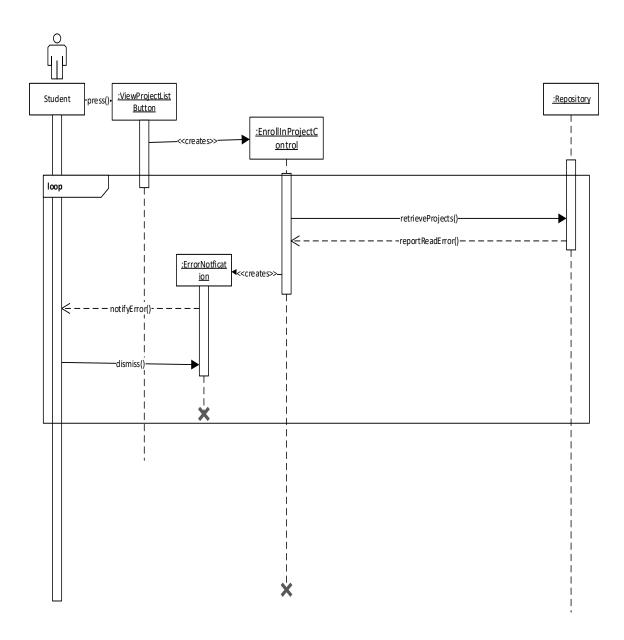


Figure 26 - EnrolInProjectReadError Sequence Diagram

Sequence Diagram for EditProfileReadError (UC - 08, UC - 07):



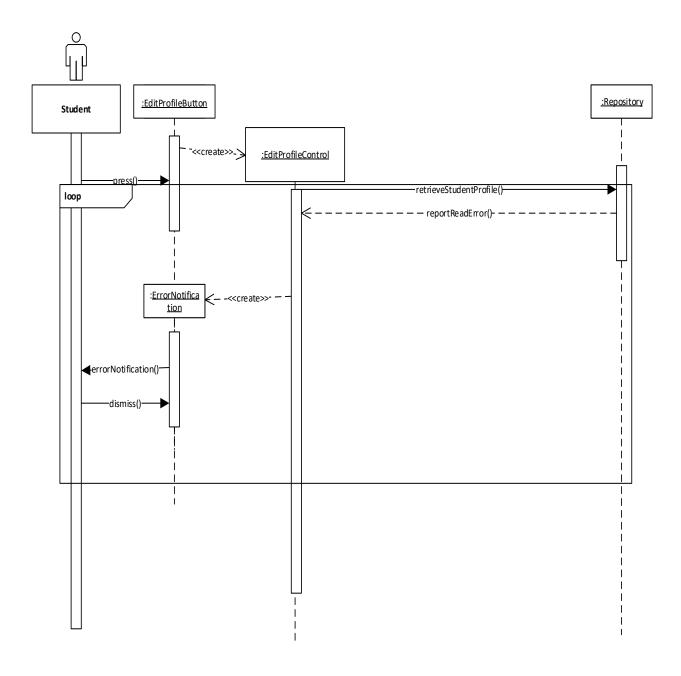


Figure 27 - EditProfileReadError Sequence Diagram



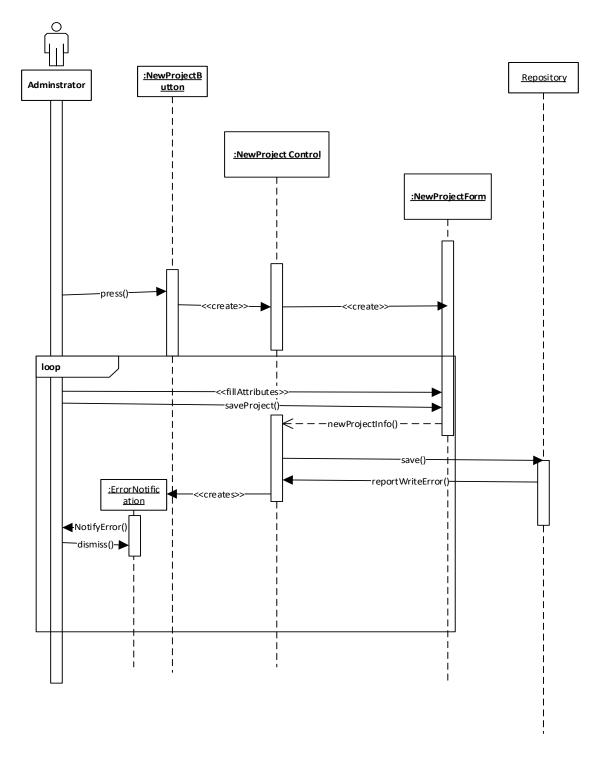


Figure 28- CreateProjectWtriteError Sequence Diagram

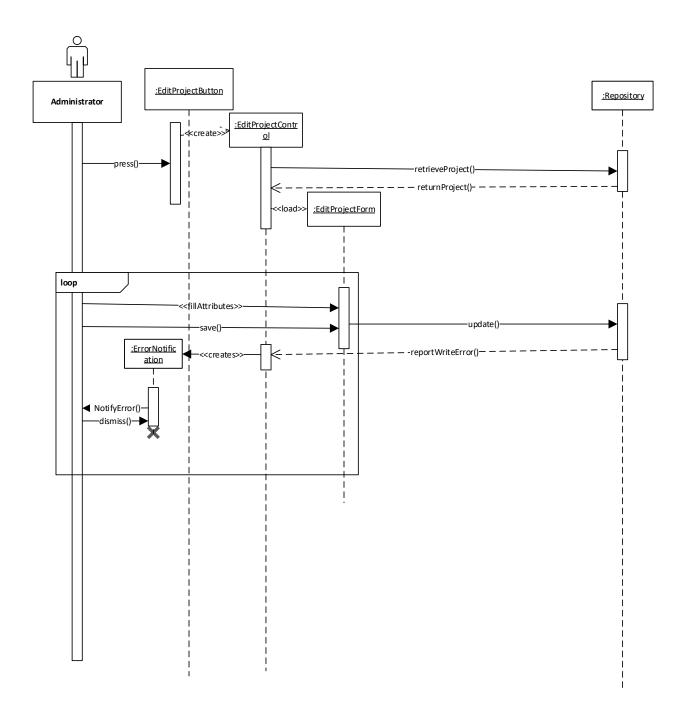


Figure 29- EditProjectWriteError Sequence Diagram

Sequence Diagram for RegisterInCUPIDWriteError (UC - 09, UC - 05):



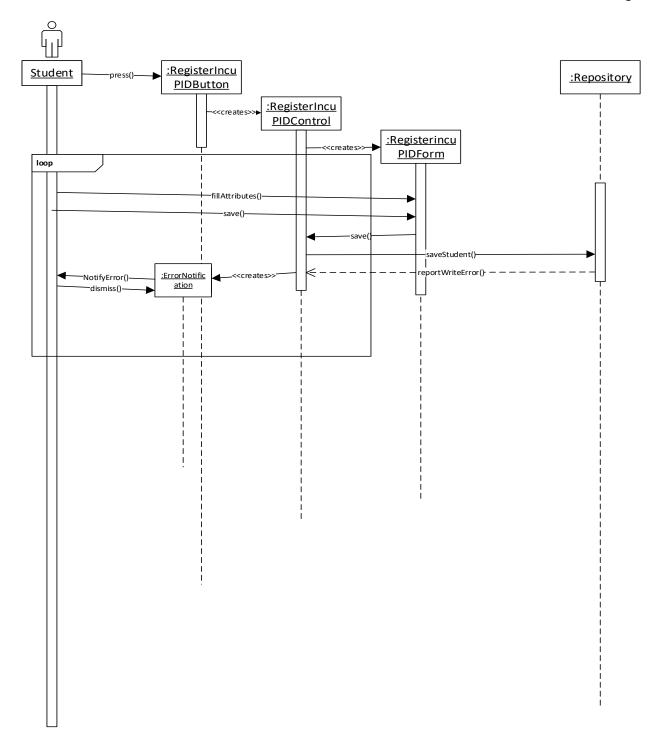


Figure 30- RegisterInCUPIDWtriteError Sequence Diagram



Sequence Diagram for EnrollInProjectWtriteError (UC - 09, UC - 06):

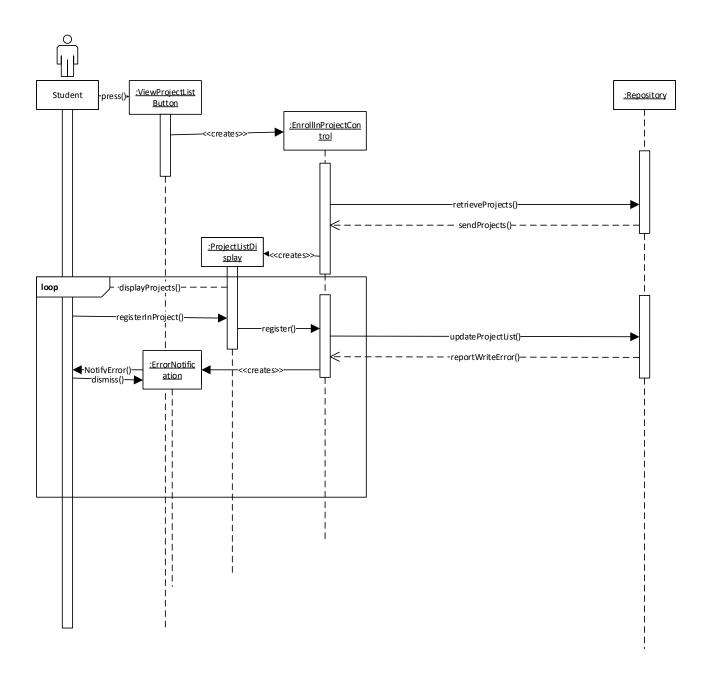


Figure 31- EnrollInProjectWtriteError Sequence Diagram



Sequence Diagram for EditProfileWtriteError (UC - 09, UC - 07):

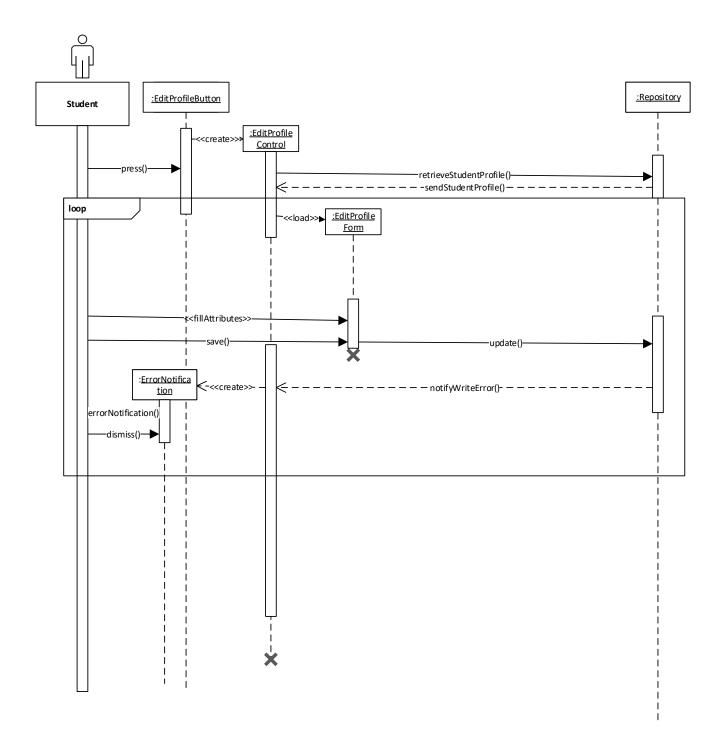


Figure 32- EditProfiletWtriteError Sequence Diagram



Sequence Diagram for CreateNewProjectMissingFieldError (UC - 10, UC - 01):

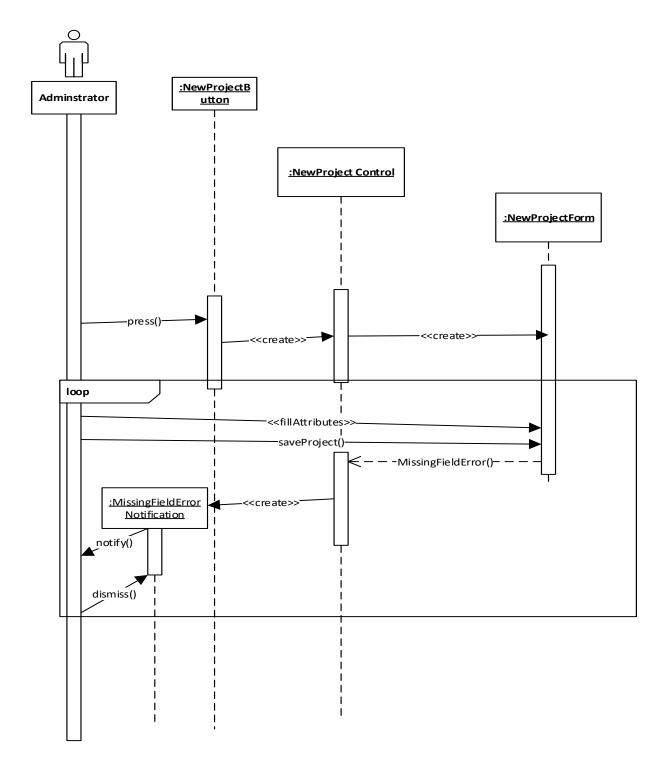
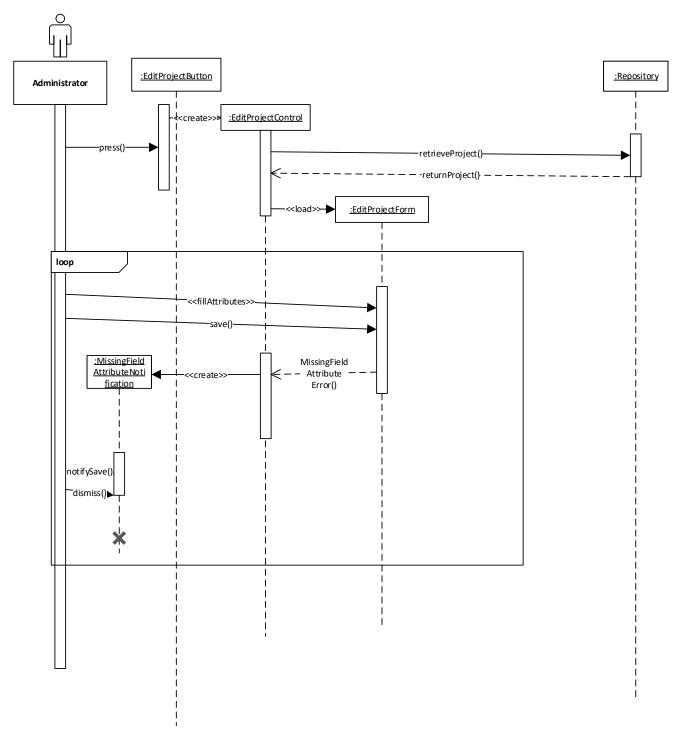


Figure 33- CreateNewProjectMissingFieldError Sequence Diagram



Sequence Diagram for EditProjectMissingFieldAttributeError (UC - 10, UC - 02):



Figure

34- EditProjectMissingFieldAttributeError Sequence Diagram



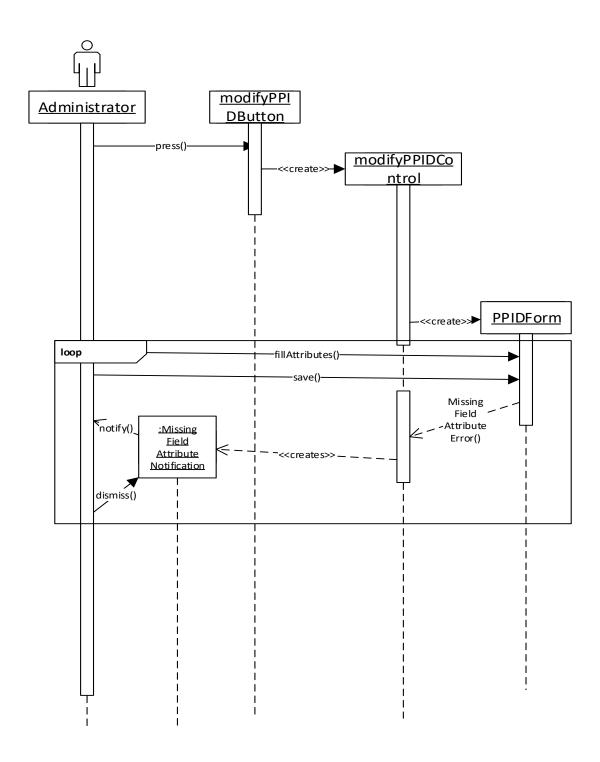


Figure 35- ModifyPPIDMissingFieldAttributeError Sequence Diagram



Sequence Diagram for RegisterInCUPIDMissingFieldAttributeError (UC - 10, UC - 05):

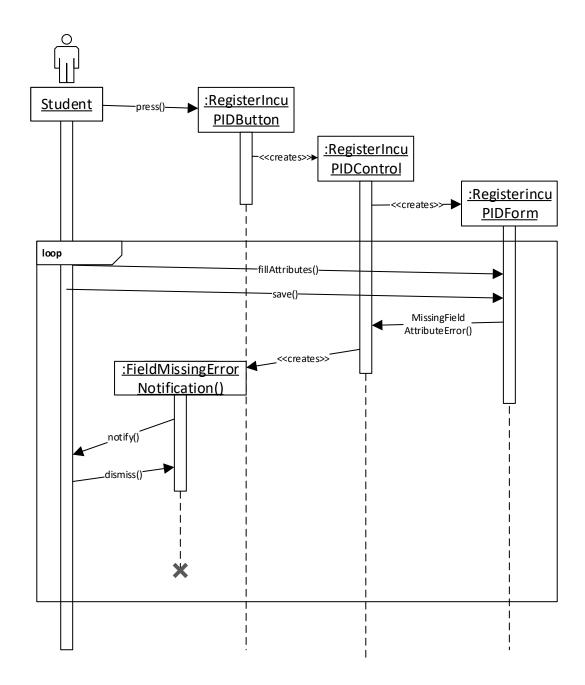


Figure 36- RegisterInCUPIDMissingFieldAttributeError Sequence Diagram



Sequence Diagram for EditProfileMissingFieldAttributeError (UC - 10, UC - 07):

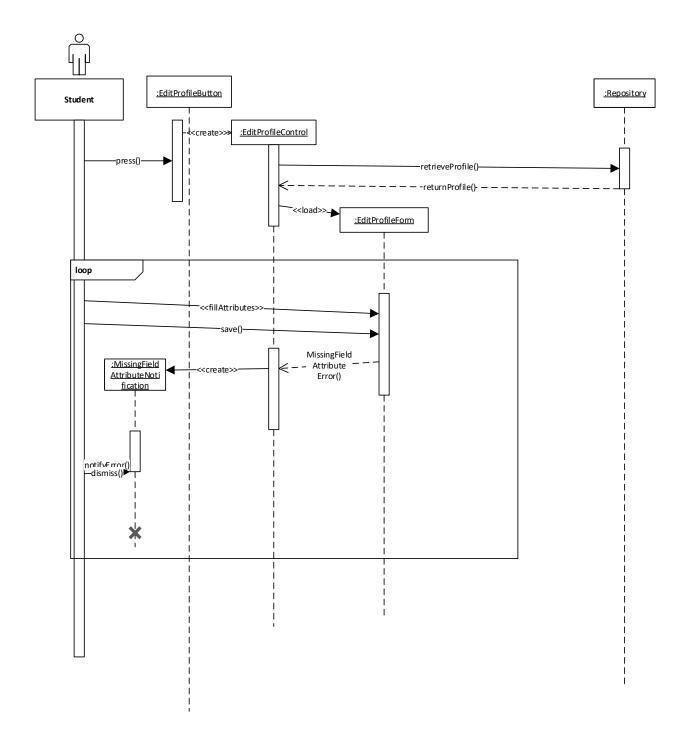


Figure 37- EditProfileMissingFieldAttributeError Sequence Diagram



Sequence Diagram for SaveRegisterIncuPID (UC - 12, UC - 05):

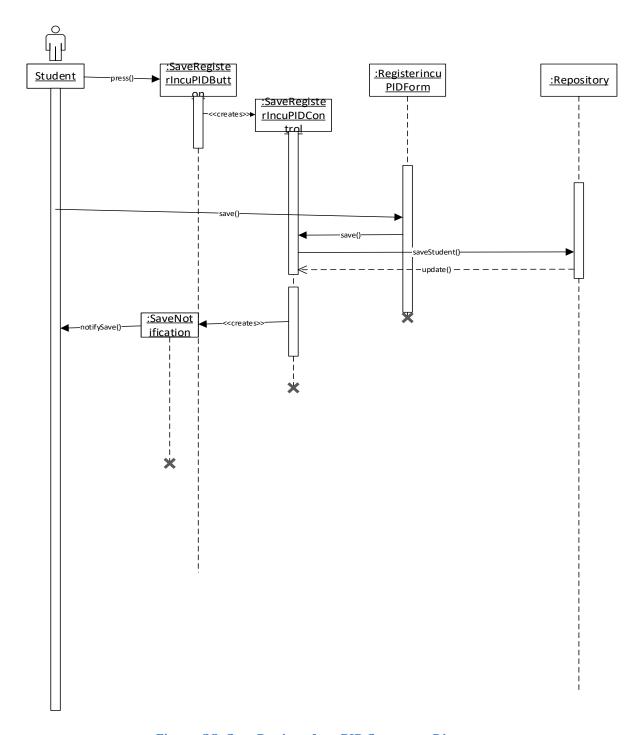


Figure 38-SaveRegisterIncuPID Sequence Diagram

Sequence Diagram for SaveCreateProject (UC - 16, UC - 01):



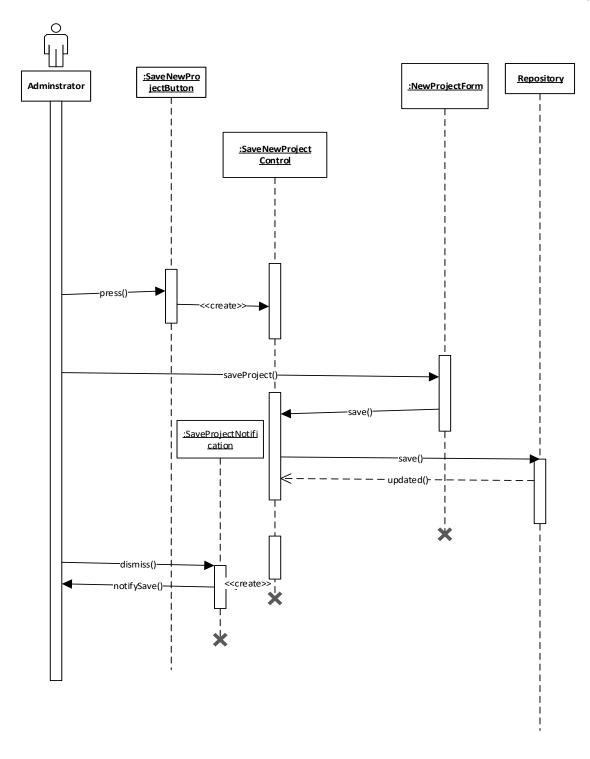


Figure 39-SaveCreateProject Sequence Diagram

Sequence Diagram for SaveEditProfile (UC - 12, UC -07):



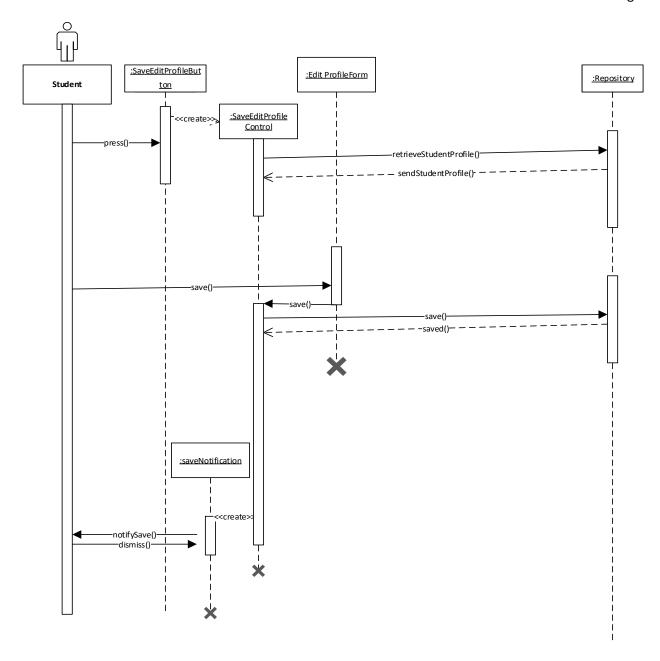


Figure 40-SaveEditProfile Sequence Diagram



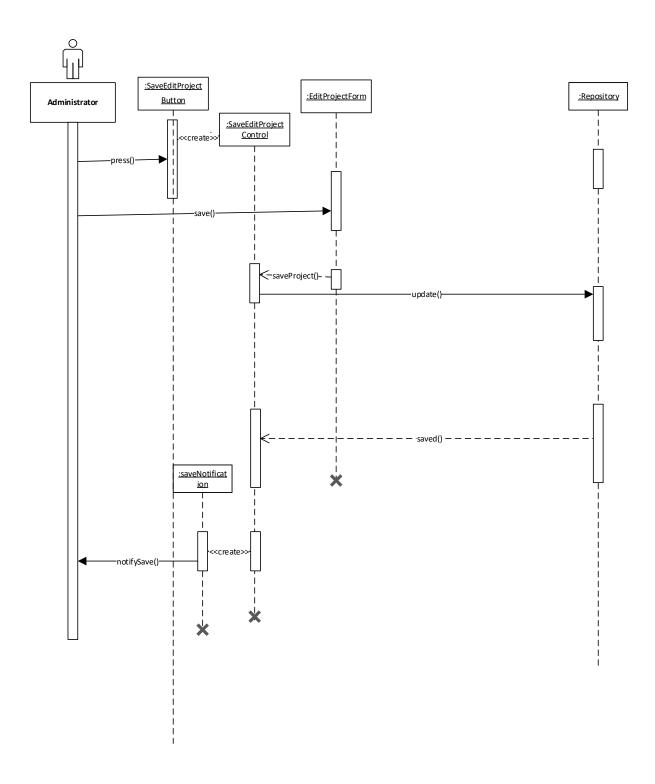


Figure 41-SaveEditProject Sequence Diagram



Sequence Diagram for ViewProjectReadError (UC - 16, UC -17):

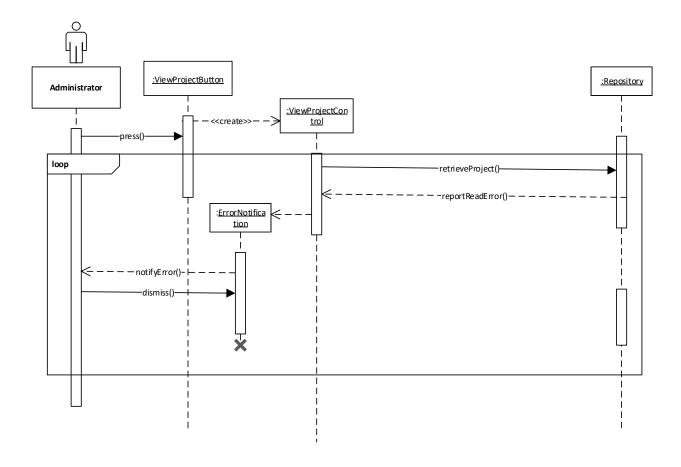


Figure 42-ViewProjectReadError Sequence Diagram



:Repository :ViewProfileButton Student <create>>-> :ViewProfileControl -retrieveStudentProfile()loop - reportReadError()-:<u>ErrorNotifica</u> <u>tion</u> -<<create>> ◆errorNotification() dismiss()-

Sequence Diagram for ViewProfileReadError (UC - 16, UC -18):

Figure 43-ViewProfileReadError Sequence Diagram

