DIU Community

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This Project report has been submitted in fulfillment of the requirements for the Degree of Bachelor of Science in Software Engineering.

Department of Software Engineering
DAFFODIL INTERNATIONAL UNIVERSITY

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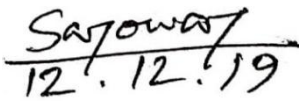
DECLARATION

I hereby declare that, this project report submitted to the Daffodil International University, is arecord of an original work done by me under the guidance of Ms. Fatama Binta Rafiq, Lecturer at the department of Software Engineering, Daffodil International University. I also declare that the project reported in this document has not been submitted to any other University or Institute for the award of any degree or diploma.

Submitted By:



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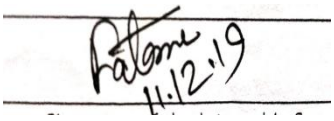

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Alhamdulillah, I have been successfully complete the project by the Gratefulness of almighty Allah. I would acknowledge many honorable individuals whose have been contributed for the preparations of the project in different stages.

First, l would like to thanks from my heart to my parents to give the opportunity for Studying in software engineering. They made my way easier to achieve my goals and my dreams, without them it will not be possible.

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My contribution to this project did not make it successful without the help of my course mate. They always encouraged me to develop this project and help me to discover the project goals and problem, also help me find out the critical problem solutions.

Finally, I would like to express my grasp to the readers, reviewers of this document who will send me criticisms for further improvement.

ABSTRACT

This “DIU Community” system is for DIU students where they can develop themselves. Where they can communicate and share their problems, experience, ideas to each other. Every software development follows some rules and method, I also following some method to develop this project. My whole project work will follow the agile methodology. Which is best software development process to develop a software. I choose it because my whole project needs to implement some part then test it and agile methodology will help me to

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CHAPTER 01: INTRODUCTION

1.1. Introduction

DIU Community is a web based System. Where DIU students can communicate among themselves. By using the system user can share their programming and study related problems and solves, so they can increase their experiences. A user also can post job circulars for permanent and contracts jobs eligible users can apply for jobs. There also Event section for users. Users can create Events for seminar/meeting/get-to-gather. This system will also help users to donate blood, there will be a list of users blood group and users will update when their donation status. So, It'll help a donor seeker contact with right donor.

There will be a admin who will be able to manage the user's Problem's post, Events, Jobs Posts and search Blood donor if needed, as if a user does not post something according to its type, Then the admin will not be able to accept it.

1.2. The Purpose of the Project

This system is for Daffodil International University students to create a common platform. This system will help to make a strongest community where DIU student can improve themselves with knowledge, job and socialization.

1.2.1. Background

Daffodil International University has a huge number of student. And most of the students doing a spectacular performance in various aspects. In this regard very often they need each other's help.

This system will bring them in a platform where they can easily communicate among them and help each other.

1.2.2. Benefits & Beneficiaries

- This projects is beneficiaries for DIU students. Benefits are,
- This system is web based so students can use the system from anywhere.
- It is very easy to use.
- Students can solve and discuss their problems here.
- Shared experience will motivate other students.
- Job seeker students can get jobs circular from the system.
- System users will easily know about upcoming event or get-to-gather.
- The system will bring all the students in a place so communication will be smother.

1.2.3. Goal of the Project

Goal of this system to help the DIU Students to ensure their better future and performance. Collaboration of students will help them to increase their personal performance. They also can share their ideas and work on it.

1.3. Stakeholders

There are four types of stakeholders.

1. Admin
2. Student

1.4. Proposed System Model (block diagram)

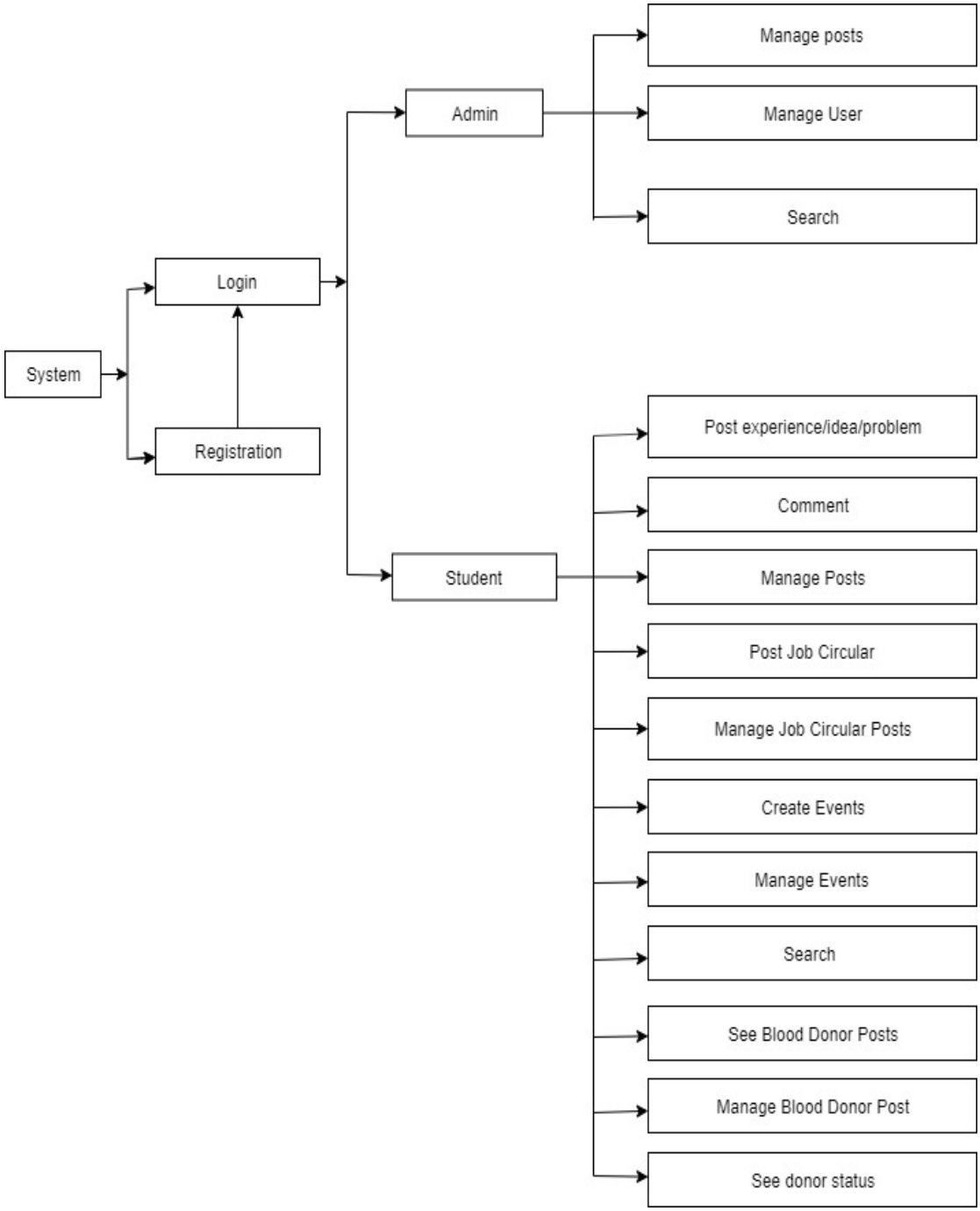

Figure 1.1: Block Diagram of the System

1.5. Project Schedule

1.5.1. Gantt chart

Task/Date	Start Date	End Date	Status	AUG	SEPT	OCT	NOV	DEC
Proposal	05-08-2019	19-08-2019	Compete					
Requirements	25-08-2019	10-09-2019	Compete					
Design	15-09-2019	05-10-2019	Compete					
Implementation	07-10-2019	12-11-2019	Compete					
Testing	14-11-2019	30-11-2019	Compete					
Documentation	01-12-2019	12-12-2019	Compete					

Table 1.1: Gantt chart

1.5.2. Release Plan:

Activities	**Duration in week**	**Total Week**
Problem Identification	Week 1	1
Requirement Specification	Week 1, Week 2	2
Requirement Analysis	Week 3	1
Design Specification	Week 4	1
Database Design	Week 5	1
Implement	Week 6, week 7,week 8, week 9	4
Test Case	Week 10, week 11, week 12	1
Impose and demerits	Week 13, week 14, week 15	3
Software Release	Week 16, week 17, week 19	3

Table 1.2: Release Plan

The following contents will be delivered with the project:

- Project CD
- Project Demo
- User Manual Along with Tutorial
- Documentation

CHAPTER 02: SOFTWARE REQUIREMENT SPECIFICATION

2.1. Software Requirement Specification (FR)

2.1.1. Functional Requirement ‘Registration’

Requirements	Registration
Description	Entering any DIU Student must have to registered themselves for log in.
Stakeholders	Student

2.1.2. Functional Requirement ‘Login’

Requirements	Login
Description	All user mandatory for login. After log in they can do further operations.
Stakeholders	Admin, Student

2.1.3. Functional Requirement ‘Manage Profile’

Requirements	Manage profile
Description	Registered user can edit, update and delete their profile.
Stakeholders	Student

2.1.4. Functional Requirement ‘Post Experience’

Requirements	Post Experience/Ideas/problems
Description	Students can share their innovative ideas, plans, experiences, problems here.
Stakeholders	Student

2.1.5. Functional Requirement ‘Comment on Post’

Requirements	Comment on Post
Description	If any registered user share their thoughts another registered user also can share their Exchange of

	views by commenting there.
Stakeholders	Student

2.1.6. Functional Requirement ‘Manage Post’

Requirements	Manage Post
Description	Registered user or Admin can delete any post which they think should not be there.
Stakeholders	Admin , Student

2.1.7. Functional Requirement ‘Post Job Circular’

Requirements	Post Job Circular
Description	If any registered user get a news of job circular they can post it here and many of them can get job easily through their post.
Stakeholders	Student

2.1.8 Functional Requirement ‘Manage Circular’

Requirements	Manage Job Circular
Description	Registered user or Admin can delete any job circular which they think should not be there.
Stakeholders	Admin, Student

2.1.9. Functional Requirement ‘Search’

Requirements	Search
Description	Student can search specific information and if it is there they will get result.
Stakeholders	Student

2.1.10. Functional Requirement ‘Create Events’

Requirements	Create Event
Description	Student can create events for any function or program.

Stakeholders	Student

2.1.11. Functional Requirement ‘Manage Events’

Requirements	Manage events
Description	Registered user or Admin can delete any events which they think should not be there.
Stakeholders	Student , Admin

2.1.12. Functional Requirement ‘View Blood Donor List’

Requirements	View Blood Donor Post
Description	If any registered user donate blood they can update it in their profile . Admin and Students can view it.
Stakeholders	Student , Admin

2.1.13. Functional Requirement ‘Update Donor Status’

Requirements	Update Donor Status
Description	Blood donors from the Student they can update their blood donation time.
Stakeholders	Student ,

2.1.14. Functional Requirement ‘Update Donor Status’

Requirements	Manage User
Description	Admin can manage user. If any student/user need to kick out admin can delete his/her profile.
Stakeholders	Admin

2.2. Data Requirements

1. Types of entity of the system
2.Route Data locations
3. Capacity and resources of the data requirements
4. Data source sequence

5. Data Availability schedules
6. Quantity of data
7. Availability of data

2.3. Performance Requirements

2.3.1. Speed and Latency Requirements

1. Data should update in database within 1 second.
2. Query should bring result within 2 seconds.
3. UI design should load within 7 seconds.
4. Validation error should show within 1 second.

2.3.2. Precision or Accuracy Requirements

1. After login the index should show the accurate data for the specific user.
2. The registration form should provide accurate data to store in database.
3. The user should get accurate data which is assigned to them.

2.3.3. Capacity Requirements

1. Not more than 1000000 users to be registered.
2. Not more than 100 users should login at the same time.

2.4. Dependability Requirements

2.4.1. Reliability Requirements

1. The user registration should register a new user and update database with given input.
2. Log in should perform when the correct user name and password is given.
3. The delete form should delete a product/plant and update the database.
4. Admin should maintain posts and check if it's related to system.

2.4.2. Availability Requirements

1. The system should available 24 hours a day and 7 days a week.
2. The system should perform activities immediately upon user request.
3. The system should run in any web browser.

2.5. Maintainability and Supportability Requirements

2.5.1. Maintenance Requirements

1. Modify the system when the software environment changes.
2. Fix bug when the system is corrupted.
3. Fix accidental data mistakes by user.

2.5.2. Supportability Requirements

1. Provide documentation for user guidance.

2.6. Security Requirements

2.6.1. Access Requirements

1. Only registered user can login to the system.
2. Only a logged in student can edit his/her personal information.

2.7. Usability and Human-Interaction Requirements

2.7.1. Ease of Use Requirements

1. The new user should learn the system.
2. The system maintenance should not complex.
3. The system UI should user friendly.

2.7.2. Understandability and Politeness Requirements

1. Any user should understand the system.
2. Non-technical person should operate also.

2.7.3. Accessibility Requirements

1. The system should accessible from any other devices.
2. User should access their account within a request.

2.8. Look and Feel Requirements

2.8.1. Style Requirements

This ‘DIU Community’ system is look alike other social and resource sharing sites like facebook, liknkedin etc. Still this system will reliable for DIU Students and to build their career and enhance their knowledge.

2.9. Legal Requirements

2.9.1. Standards Requirements

1. Students must have to log in with valid user name and password.
2. Posts are like personal attack and defamation will be strictly taken care of.

CHAPTER 3: SYSTEM ANALYSIS

3.1. System Use Case Diagram:

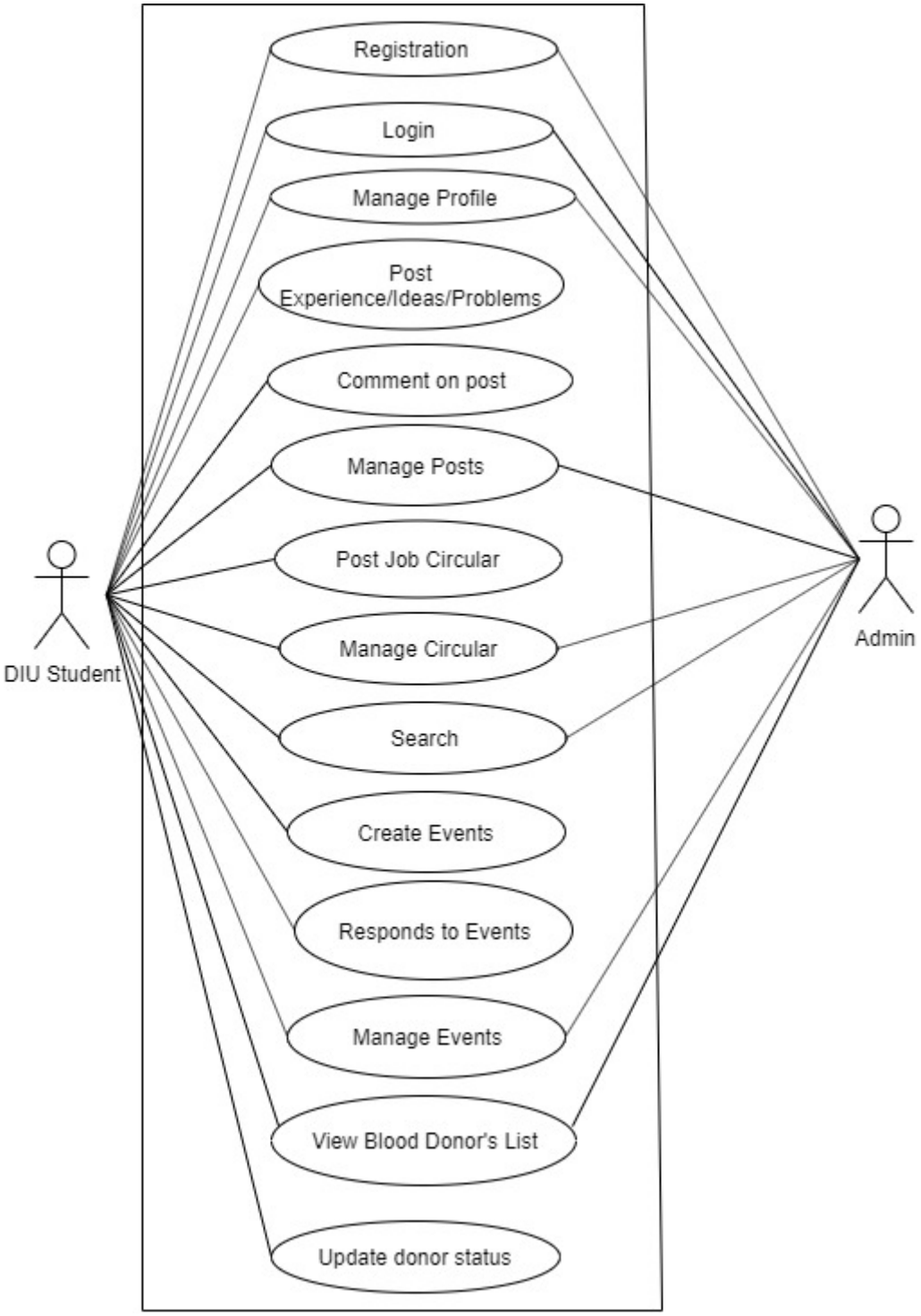

Figure 3.1: Use case for DIU Community

3.2. Use Case Description:

Table 3.1: Use Case Description of Registration

Use case name:	Registration	
Use case no	01	
Goal	To enter in to the system	
Preconditions	Must use a valid email, valid information and credentials .	
Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	.Registration Confirmation message
	2	Get access into the system
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.2: Use Case Description of Login

Use case name:	Login
Use case no	02
Goal	To enter in to the system
Preconditions	Must use valid email and valid password and for login

Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Confirm valid email address
	2	Confirm valid password
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.3: Use Case Description of Manage Profile

Use case name:	Manage Profile	
Use case no	03	
Goal	To manage user's profile	
Preconditions	Have to be logged in .	
Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Student can Edit his/her own information
	2	Updated information into database
Alternative Flows		

		N/A
Quality Requirements		N/A

Table 3.4: Use Case Description of Post Experience/Ideas/Problems

Use case name:	Post Experience/ Ideas/ Problems	
Use case no	04	
Goal	To post for discussion	
Preconditions	Have to be logged in .	
Primary Actors: **Secondary Actors:**	Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Student will post the topic he/she need to discuss
	2	Other students will see the post
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.5: Use Case Description of Comment on the post

Use case name:	Comment on the post
Use case no	05
Goal	To continue discussion in perspective of a posted topic
Preconditions	Have to be logged in .

	Have to be a student and view the post to comment	
Primary Actors: **Secondary Actors:**	Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Comments will continue the discussion
	2	Students can observe the topic
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.6: Use Case Description of Manage Post

Use case name:	Manage Post	
Use case no	06	
Goal	To manage posted posts	
Preconditions	Have to be logged in . Have to see the posts to manage	
Primary Actors: **Secondary Actors:**	Admin. None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Check the posts
	2	Inappropriate post must be taken care of

Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.7: Use Case Description of Post Job Circular

Use case name:	Post Job Circular	
Use case no	07	
Goal	To recruit and let others know about job to apply	
Preconditions	Have to be logged in . Must have to be a valid source to post a job	
Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	To recruit employee
	2	Other Students will get know about the job
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.8: Use Case Description of Manage Job Posts

Use case name:	Manage Job Circular
Use case no	09
Goal	To manage job posts

Preconditions	Have to be logged in . Admin will check the job post list	
Primary Actors: **Secondary Actors:**	Admin None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Invalid/ Inappropriate job post will be deleted
	2	Information will be added into the database
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.9: Use Case Description of Search

Use case name:	Search	
Use case no	10	
Goal	To search any information into system	
Preconditions	Have to be logged in .	
Primary Actors: **Secondary Actors:**	Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Student can search any information to see it quickly
	2	Information will be shown as search result

Alternative Flows		N/A
Quality Requirements		N/A

Table 3.10: Use Case Description of Create Events

Use case name:	Create Events	
Use case no	11	
Goal	To event for an upcoming event or program	
Preconditions	Have to be logged in . Must have to a occasion or program or reason to create a event	
Primary Actors: **Secondary Actors:**	Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Others students will know about the Event
	2	Events will be added in to the database to respond in time.
Alternative Flows		N/A
Quality Requirements		N/A

Table 3.11: Use Case Description of Manage Events

Use case name:	Manage Events
Use case no	12
Goal	To manage existed events

Preconditions	Have to be logged in ..	
Primary Actors: **Secondary Actors:**	Admin None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Inappropriate events will be taken care of
	2	Database will be updated
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.12: Use Case Description of View Blood Donor Post

Use case name:	View blood donor Post	
Use case no	13	
Goal	To view blood donor list and search needed donor	
Preconditions	Must be registered user.	
Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	To know or search a particular blood group
	2	List may contain blood group of all the students
Alternative Flows		
		N/A

Quality Requirements		N/A

Table 3.13: Use Case Description of Update Blood Donor Status

Use case name:	Update Blood Donor Status	
Use case no	14	
Goal	To easily check donor is available or not	
Preconditions	Have to be logged in .	
Primary Actors: **Secondary Actors:**	Admin, Student None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Status will be shown at profile
	2	Other Students can check donor status
Alternative Flows		
		N/A
Quality Requirements		N/A

Table 3.14: Use Case Description of Manage User

Use case name:	Manage User
Use case no	16
Goal	To manage user
Preconditions	Have to be logged in .
Primary Actors:	Admin

Secondary Actors:	None.	
Trigger	This will be a default function for the system.	
Description / Main Success Scenario	**Step**	**Action**
	1	Admin can delete a student account if need to delete
	2	Deleted account will be removed with it's all information.
Alternative Flows		
		N/A
Quality Requirements		N/A

3.3. Activity Diagram :

3.3.1. Activity Diagram For User Registration

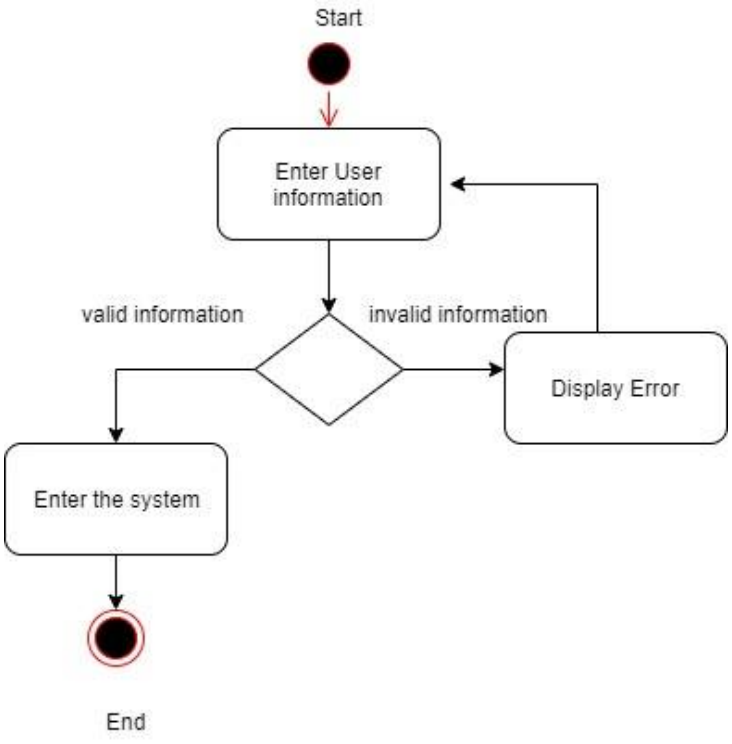

Figure 3.2: Activity Diagram for User Registration

3.3.2. Activity Diagram For User Log In

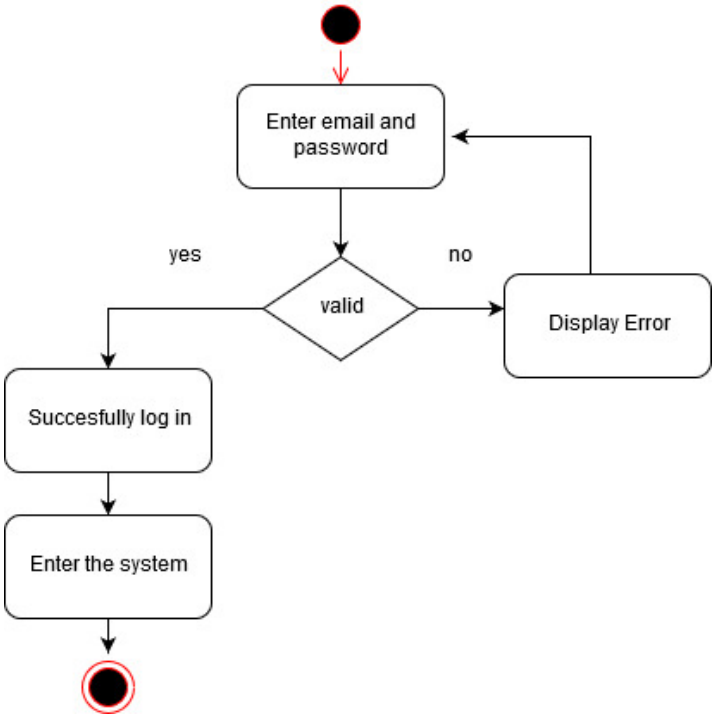

Figure 3.3: Activity Diagram For User Log in

3.3.3. Activity Diagram For Profile Manage

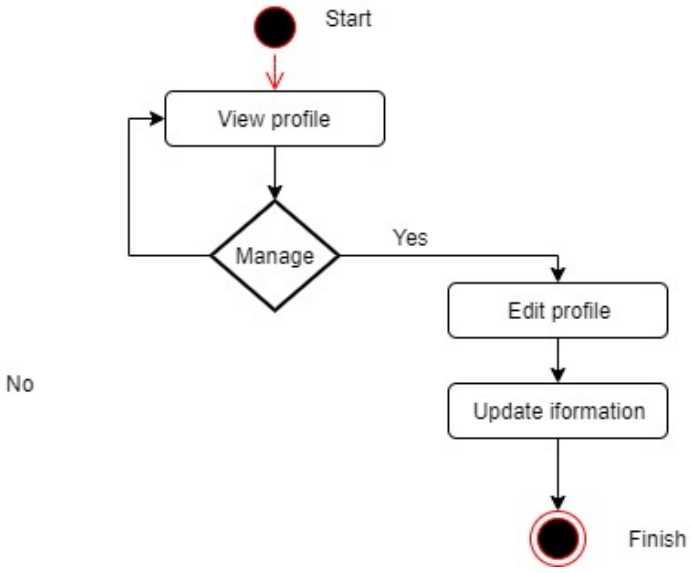

Figure 3.4: Activity Diagram For Profile Manage

3.3.4. Activity Diagram For Community Post

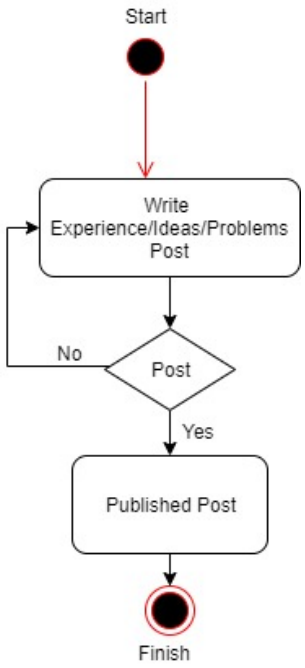

Figure 3.5: Activity Diagram For Write Community Post

3.3.5 Activity Diagram For Manage Community Post

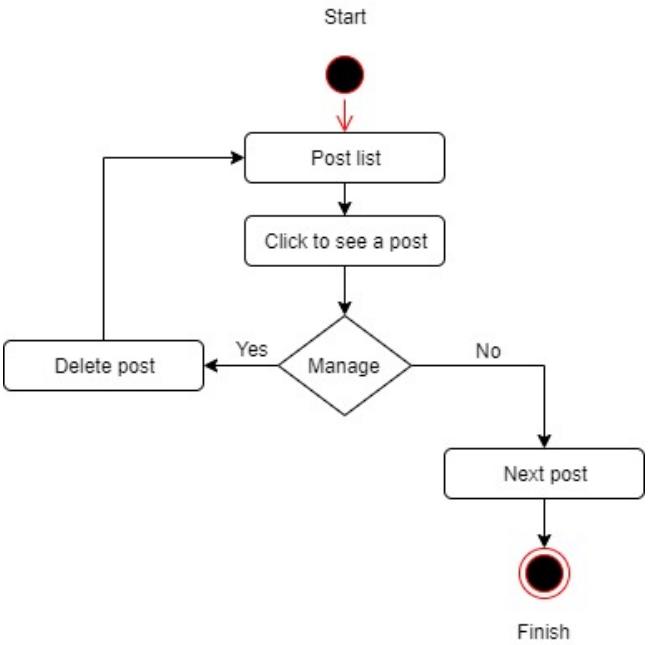

Figure 3.6: Activity Diagram For Manage Community Post

3.3.6 Activity Diagram For Comment on Post

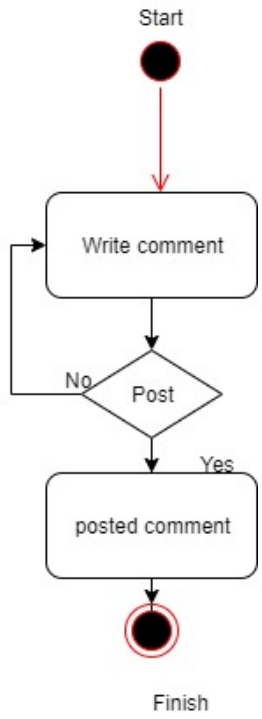

Figure 3.7: Activity Diagram For Comment on Post

3.3.7 Activity Diagram For Event Create

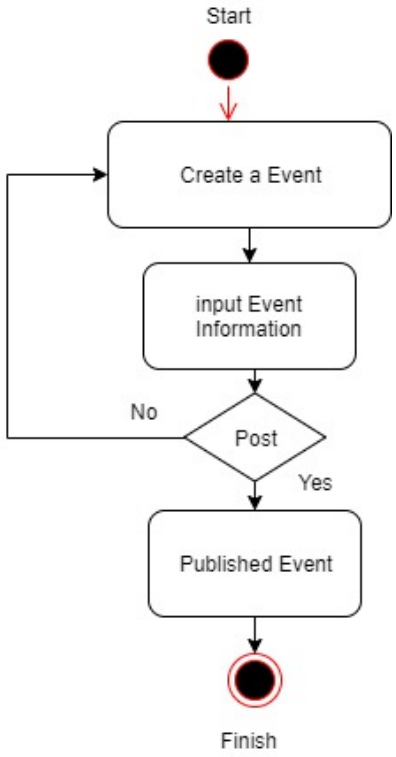

Figure 3.8: Activity Diagram For Event Create

3.3.8. Activity Diagram For Event Manage

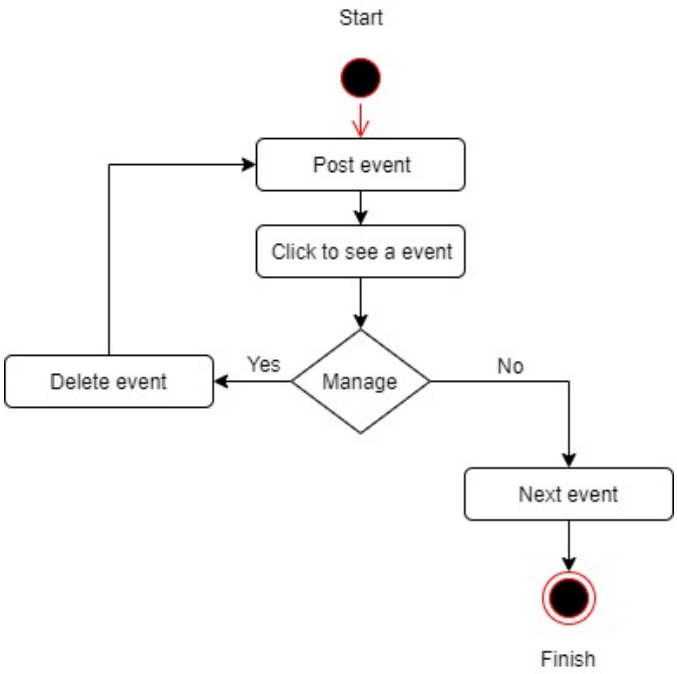

Figure 3.9: Activity Diagram For Event Manage

3.3.9. Activity Diagram For Post job Circular

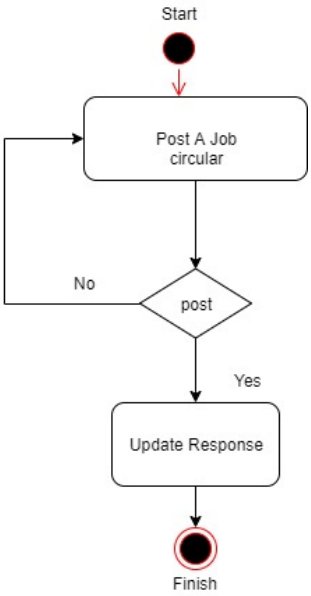

Figure 3.10: Activity Diagram For Post Job Circular

3.3.10. Activity Diagram For Manage Circular

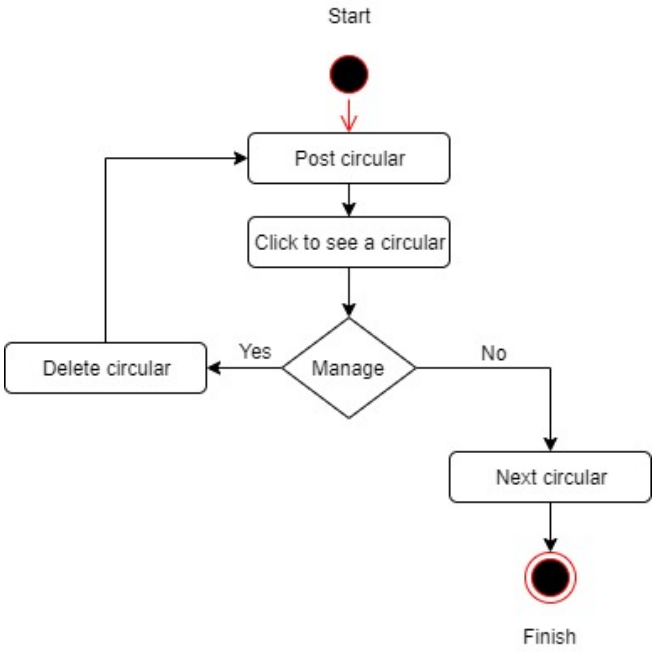

Figure 3.11: Activity Diagram For Manage Circular

3.3.11. Activity Diagram For View Donor List

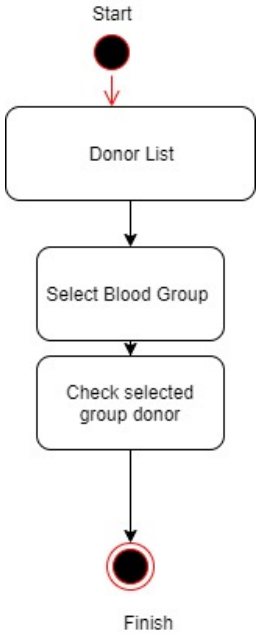

Figure 3.12: Activity Diagram For View Donor List

3.3.12. Activity Diagram For Update Donor Status

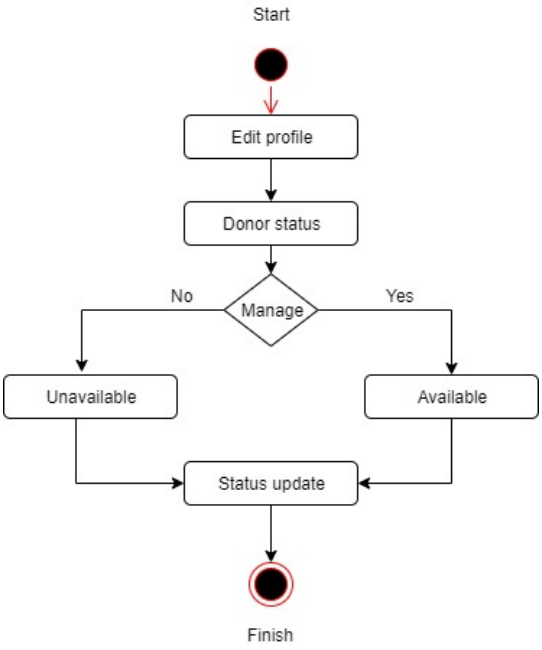

Figure 3.13: Activity Diagram For Update Donor Status

3.3.13. Activity Diagram For Search

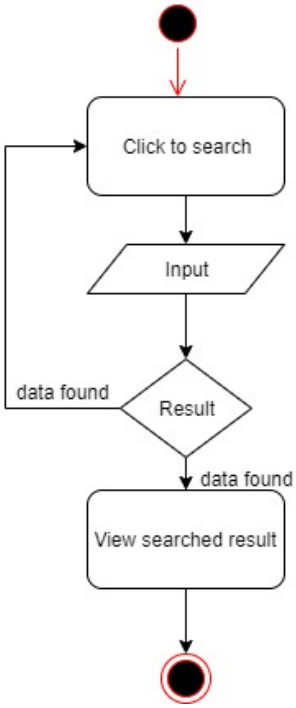

Figure 3.14: Activity Diagram For Search

3.3.13. Activity Diagram For Manage User

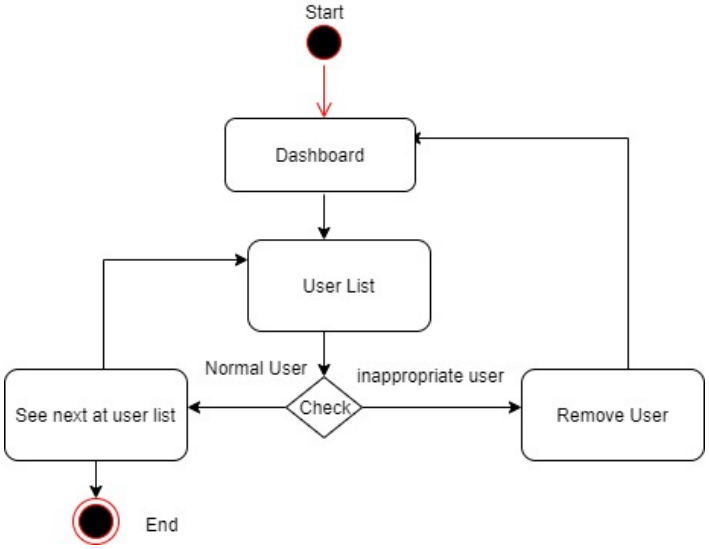

Figure 3.15: Activity Diagram For Manage User

CHAPTER 04: SYSTEM DESIGN SPECIFICATION

4.1. Sequence Diagram:

4.1.1. Sequence diagram for user ‘Registration’

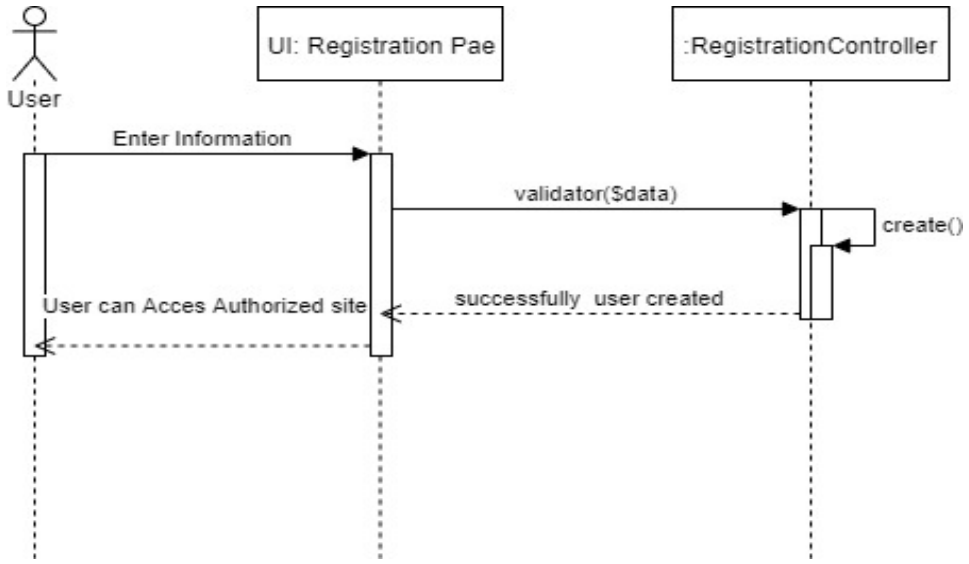

Figure 4.1: Sequence diagram for Registration

4.1.2. Sequence diagram for ‘Login’

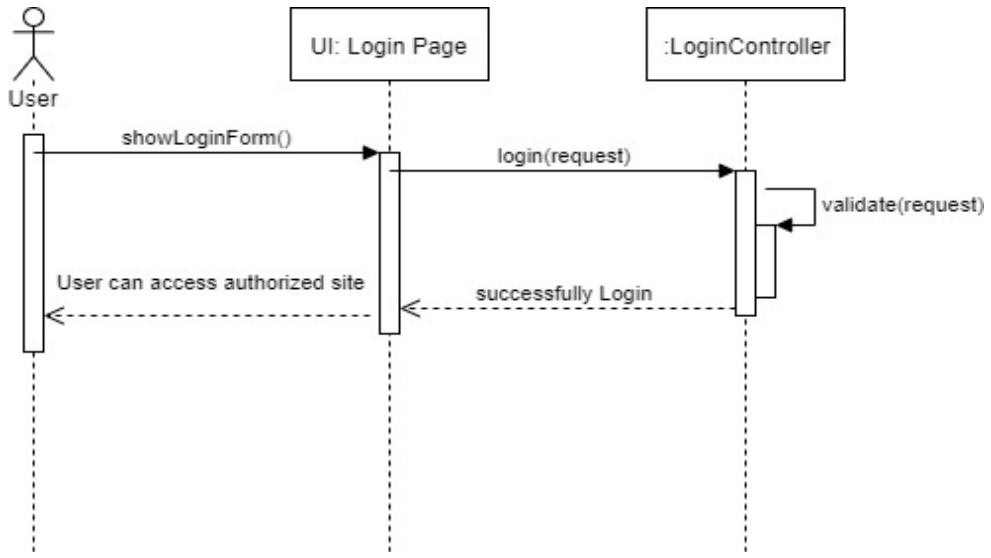

Figure 4.2 Sequence diagram for Login

4.1.3. Sequence diagram for student ‘Manage Profile’

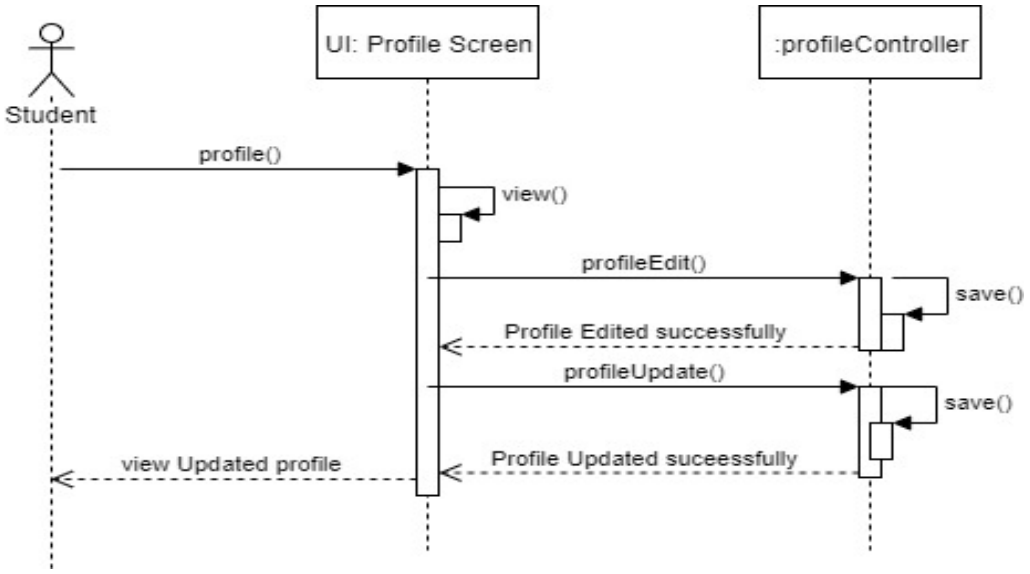

Figure 4.3: Sequence diagram for Manage Profile

4.1.4. Sequence diagram for ‘Post Experience/Ideas/Problems’

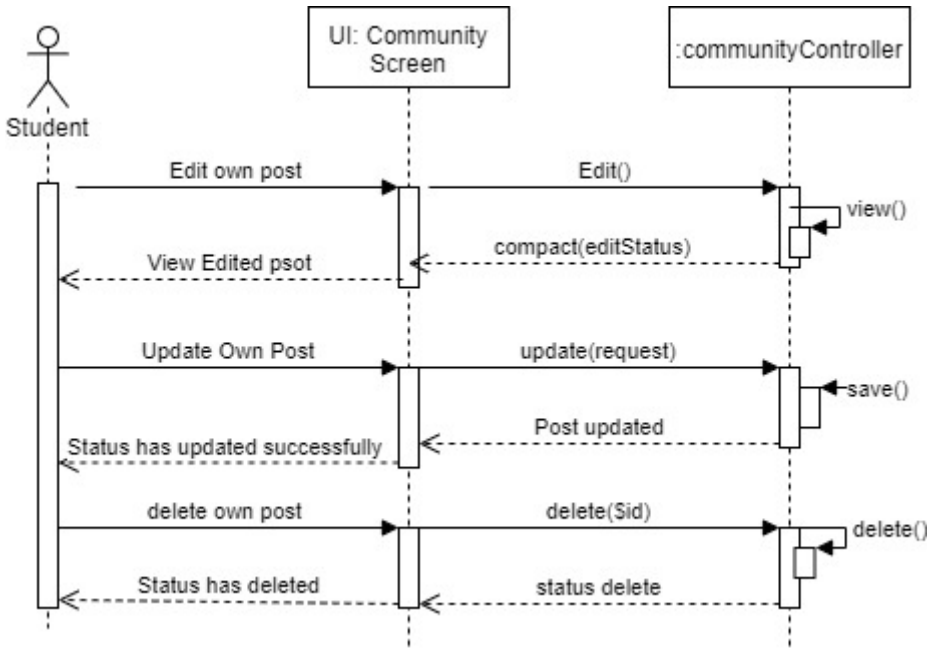

Figure 4.4: Sequence diagram for Post Experience/ideas/Problems

4.1.5. Sequence diagram for user ‘Comment on Post’

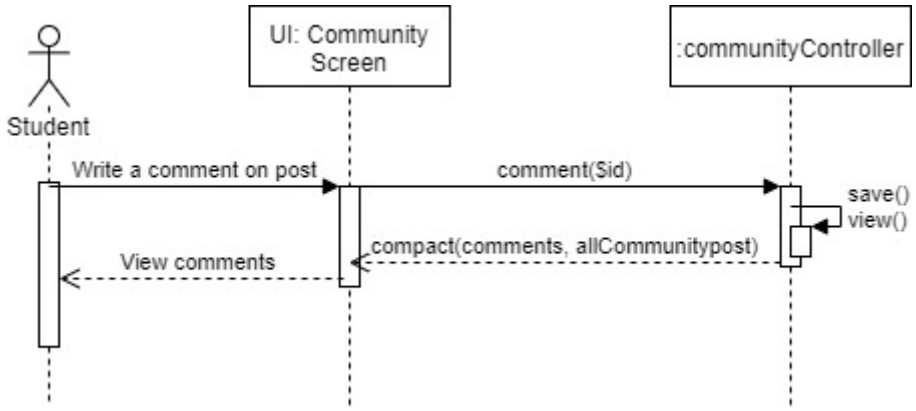

Figure 4.5: Sequence diagram for Comment on post

4.1.6. Sequence diagram for user ‘Manage Post’

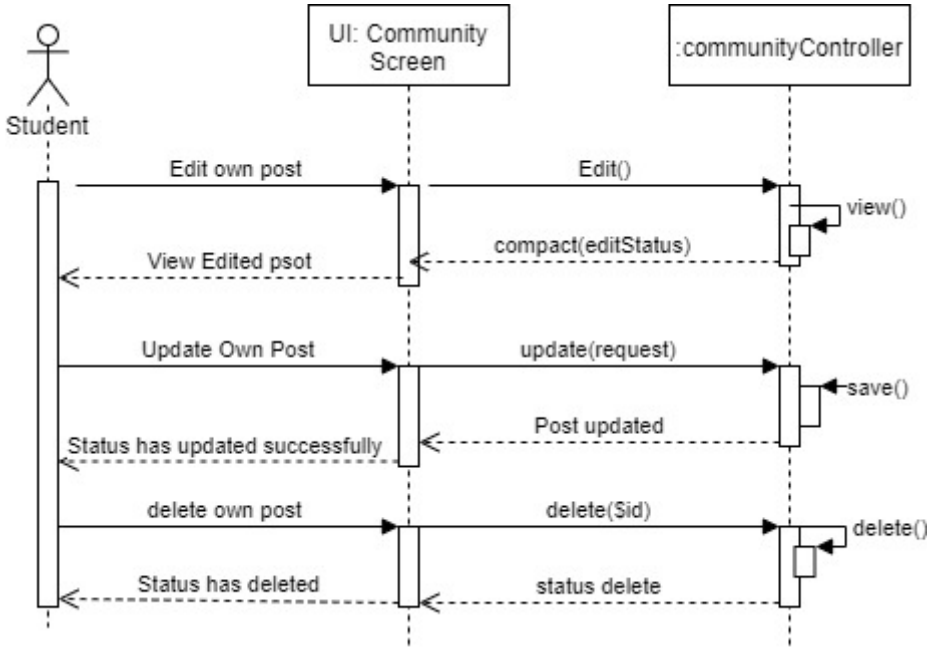

Figure 4.6: Sequence diagram for Manage Post

4.1.7. Sequence diagram for Job Circular Post

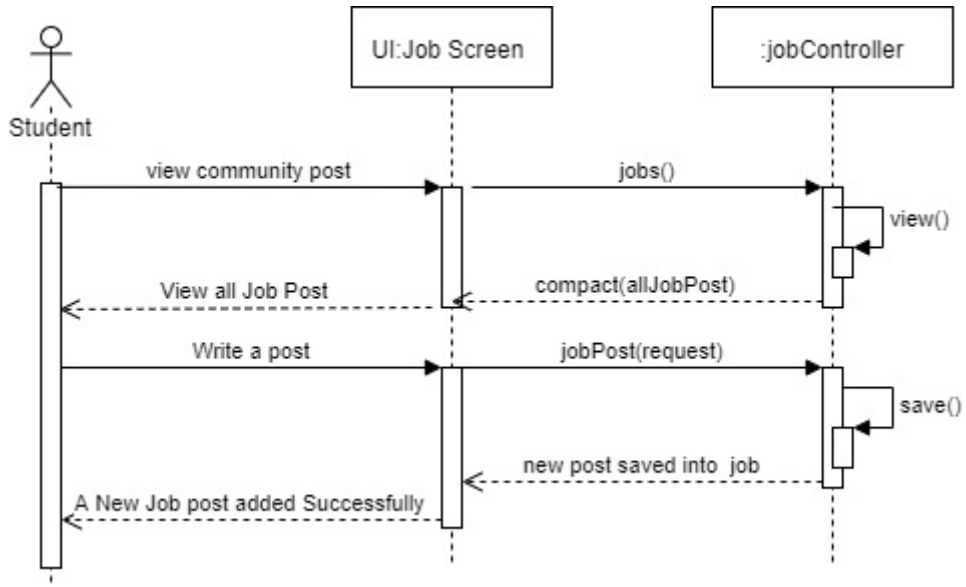

Figure 4.7: Sequence diagram for Post Job circular Post

4.1.8. Sequence diagram for user Manage Job Circular Post

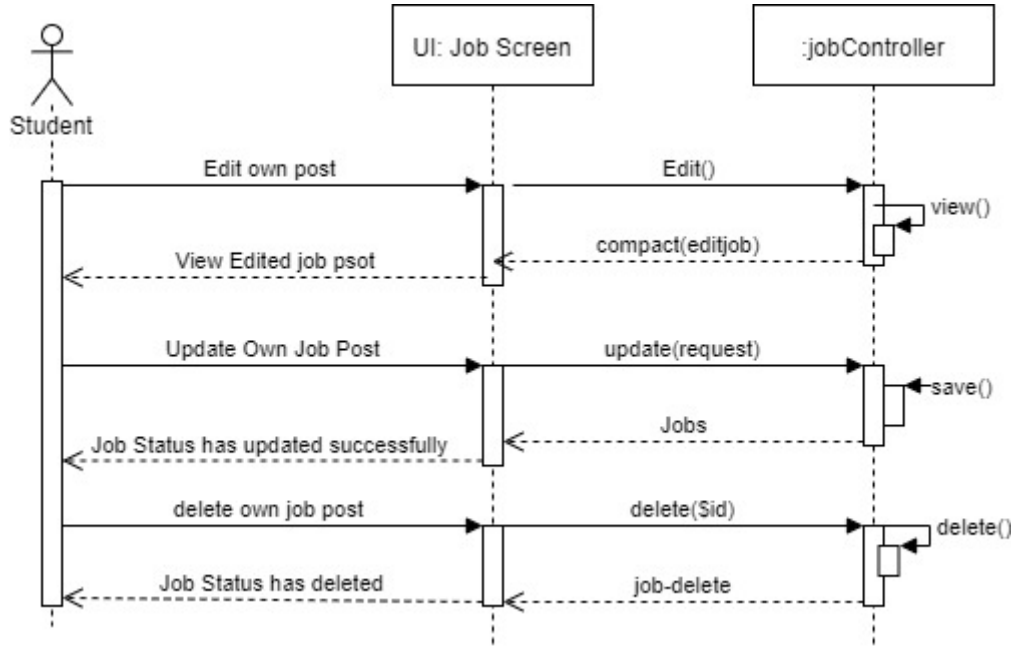

Figure 4.8: Sequence diagram for Manage Job Circular Post

4.1.9. Sequence diagram for user Search

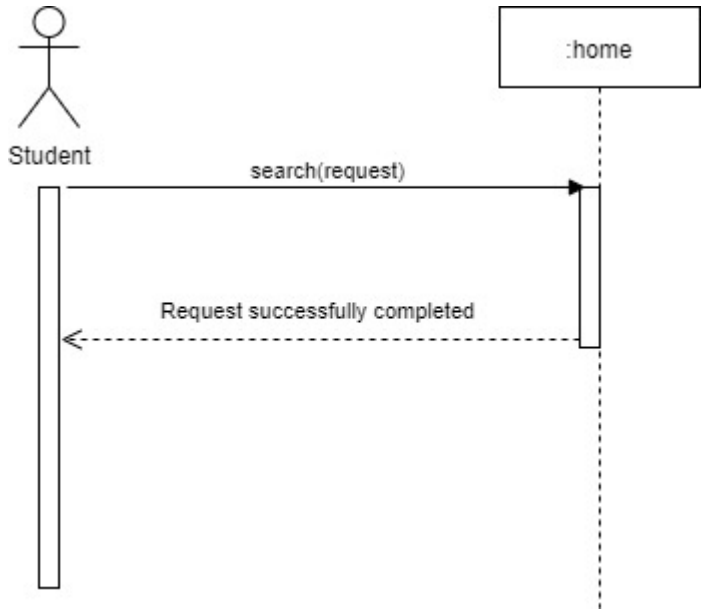

Figure 4.9: Sequence diagram for Search

4.1.10. Sequence diagram for Create Event

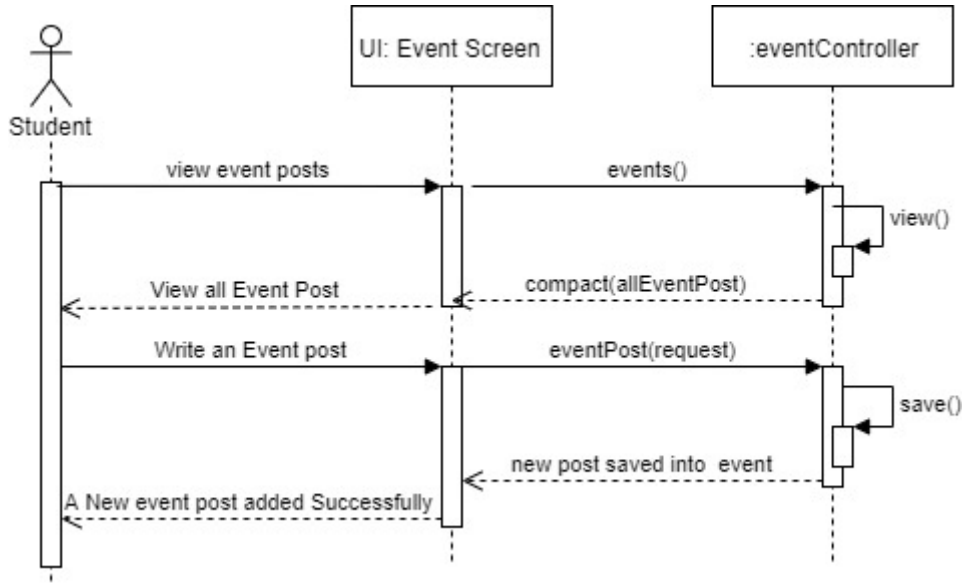

Figure 4.10: Sequence diagram for Create Event

4.1.11. Sequence diagram for user Registration

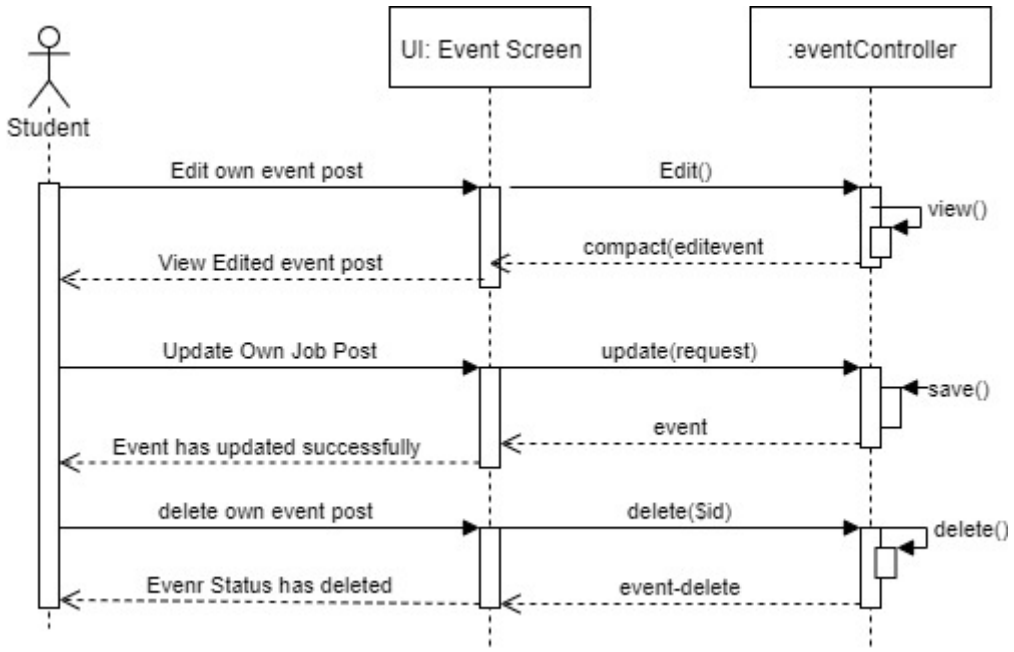

Figure 4.11: Sequence diagram for Manage Event

4.1.12. Sequence diagram for user Registration

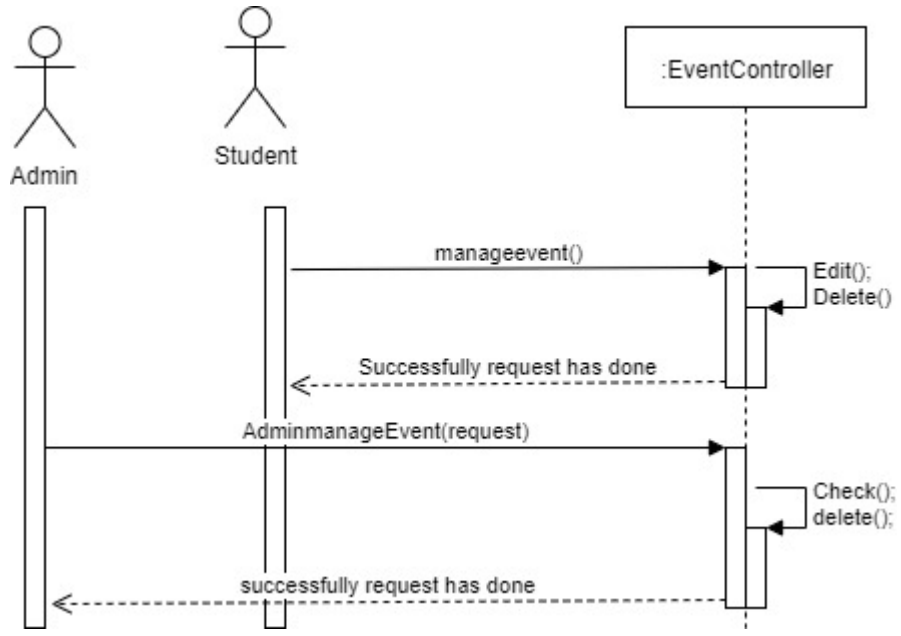

Figure 4.12: Sequence diagram for Manage Event

4.1.13. Sequence diagram for user Registration

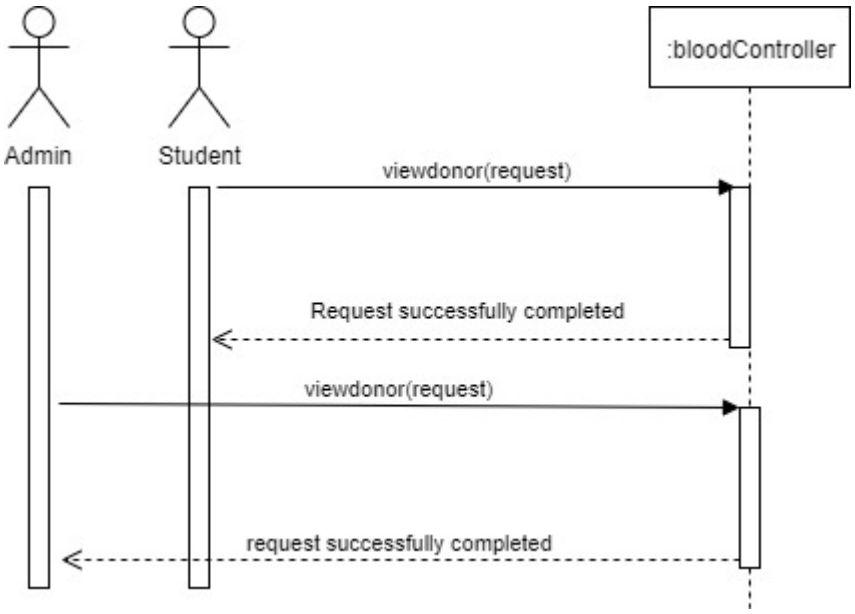

Figure 4.13: Sequence diagram for View Blood donor's list

4.1.14. Sequence diagram for user Registration

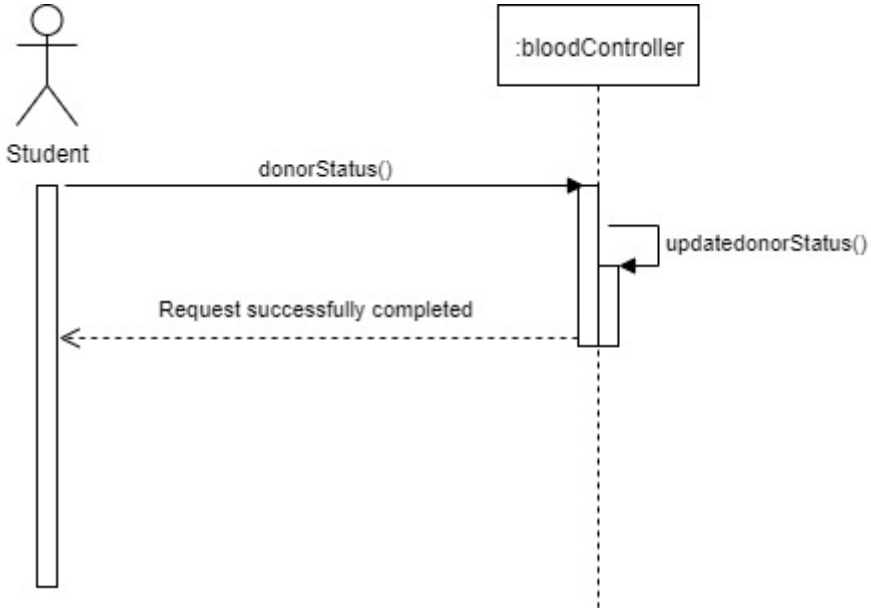

Figure 4.14: Sequence diagram for Update donor status

4.2. Class diagram for ‘DIU Community’ System

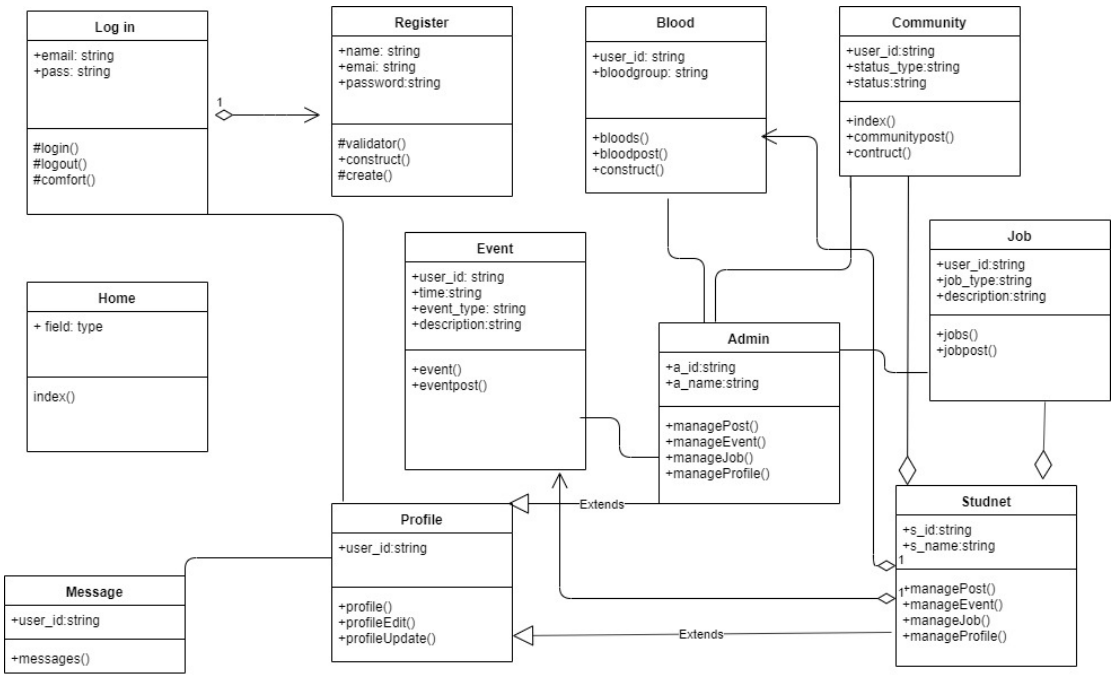

Figure 4.15: Class diagram ‘DIU Community’

4.3. Entity Relationship Diagram for ‘DIU Community’ system

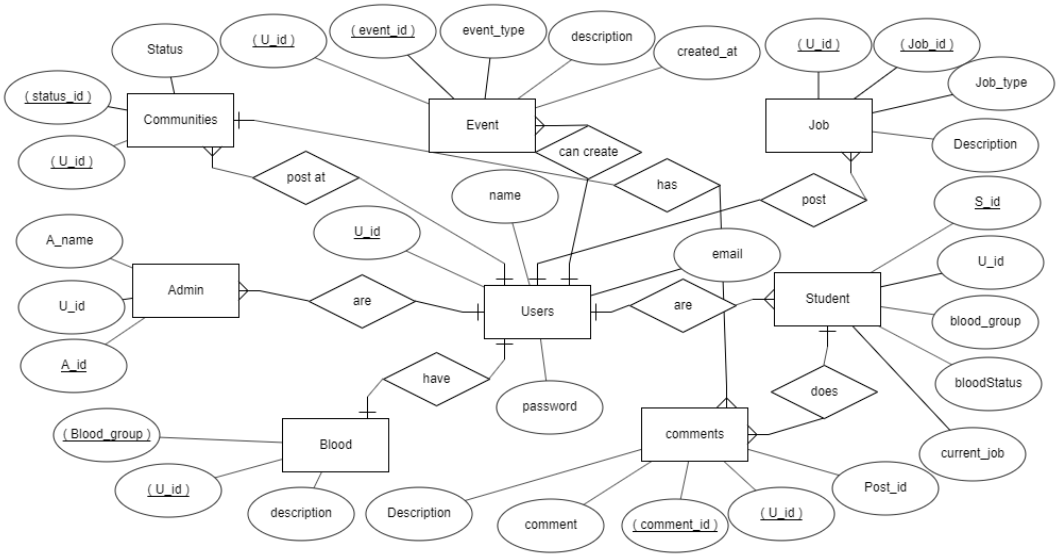

Figure 4.16: Entity Relationship Diagram

4.4. Development of Tools and Technology

4.4.1. User Interface Technology

- HTML5
- CSS3
- Bootstrap 4
- JavaScript
- SASS
- jQuery Plugins
- Brackets Editor

4.4.2. Implementation Tools & Platforms

- Object-Oriented PHP
- MySQL
- Xammp
- Laravel Framework
- Windows PowerShell/CMD
- Atom IDE

CHAPETR 05: SYSTEM TESTING

5.1. Testing Features

5.1.1. Feature to be tested

1. Registration
2. Login
3. Post Experience/Ideas/Problems
4. Post Jobs
5. Create an Event

5.1.2. Feature not to be tested

1. Manage Profile.
2. Blood Donor Update Status

5.2. Testing Strategies

5.2.1. Test Approach

1. The system will manually tested.
2. The system testing is based on user acceptance.

5.2.2. Pass/Fail Criteria

1. Component Pass/Fail criteria – The test will pass if the case meet the object design requirement or fail if not.
2. Integration Pass/Fail criteria – The test will pass if the case meet the object design architecture requirement or fail if not.
3. System Pass/Fail criteria – The test will pass if the case meet the functional and non-functional requirements or fail if not.

5.2.3. Suspension and Redemption

1. Build Acceptance Test – The system will pass the test if every build is successful if not than try build again.
2. Regression Testing – The system should work properly after each change on the system.
3. System Design Changes – The system should work properly after each change in the design.

5.2.4. Testing Schedule

Table 5.1: Testing Schedule

Test Phase	Time	Owner
Test Plan Creation	1 week	Sarowar Alam Saidi
Test Specification Creation	1 week	Sarowar Alam Saidi
Test Specification Team Review	2 weeks	Sarowar Alam Saidi
Component Testing	2 weeks	Sarowar Alam Saidi
Integration Testing	2 weeks	Sarowar Alam Saidi
System Testing	3 weeks	Sarowar Alam Saidi

5.3. Test Cases

5.3.1. Test Case: 01

Table 5.2: Test Case-01

Test Case #: 01	Test Case Name : Registration
System : DIU Community	Subsystem : N/A
Designed By : Sarowar Alam Saidi (153-35-1329)	Design Date : 27-11-2019
Executed By : Sarowar Alam Saidi	Execution date: 29-11-2019

Pre-Condition: User must have a DIU mail address

Step	Action	Expected System Response	Pass/Fail	Comment
1.	When a student fill up only Name field and Click register	Other fields are required	Pass	Other fields are required
2.	When a student click only register button without fill up any field	Fill up the required field	Pass	Fill up the required field
3.	When a student enters email like Xyz.com	The system should display the email field is not a valid e-mail address.	Pass	The email field is not a valid e-mail address.
4.	When a student enter email like saidi35-1329@diu.edu.bd	The system should take it as a valid email.	Pass	It as a valid email.
5.	When a student enter phone number as character	The system should display the field phone number must be a number.	Pass	The field phone number must be a number.

6.	When a student remain password and confirm password field empty.	When click register button the system should display the password and confirm password field is required.	Pass	The password and confirm password field is required.
7.	When a student enter password like ‘123’ and confirm password like 1234	When click register button the system should display the password and confirmation password do not match.	Pass	The password and confirmation password do not match.
8.	If a student enter password like ‘1234’ and confirm password field empty.	The confirmation password is required.	Pass	The confirmation password is required.
9.	If a student enters the password like ‘Saidi_101’ have to be 8 characters	The system should take it as a valid password.	Pass	It as a valid password.
10.	When a student filled with all required field with valid information.	The registration process will be competed and redirect to home page.	Pass	The registration process will be competed and redirect to home page.

5.3.2. Test Case: 02

Table 5.3: Test Case-02

Test Case #: 2	Test Case Name: Log in
System :DIU Community	Subsystem: N/A
Designed By: Sarowar Alam Saidi (153-35-1329)	Design Date:27-11-2019
Executed By: Sarowar Alam Saidi	Execution date: 29-11-2019

Pre-Condition: Must be registered for access to his/her account.

Step	Action	Expected System Response	Pass/Fail	Comment
1.	Enter the email without password.	The system will display the message: password field is required.	Pass	Password field is required.
2.	When a user enter	Email field is required.	Pass	Email field

	password without email			is required.
3.	When a user click the sign in button without the email and password field	Email and password is required.	Pass	Email and password is required.
4.	When a user enter the valid email and wrong password	The system will display: invalid login attempts.	Pass	Invalid login attempts.
5.	When a user enter wrong email and wrong password	The system will display: invalid login attempts.	Pass	Invalid login attempts.
6.	When a user enter valid email and valid password	The system will successfully access to the account and redirect to the login page.	Pass	The system will successfully access to the account and redirect to the login page.

5.3.3. Test Case: 03

Table 5.4: Test Case-03

Test Case #: 3	Test Case Name: Post Experience/ideas/problems
System :DIU Community	Subsystem: N/A
Designed By: Sarowar Alam Saidi (153-35-1329)	Design Date: 27-11-2019
Executed By: Sarowar Alam Saidi	Execution date: 29-11-2019

Pre-Condition: Student Must be logged in into the system.

Step	Action	Expected System Response	Pass/Fail	Comment
1.	Click ‘Post’ without select Type and leave post field empty	The system will display the message: please fill out this field.	Pass	The filed post is empty and need to write.
2.	Select Post Type and leave post field empty and click ‘Post’	Email field is required.	Pass	Post field is required.
3.	Select post and write a topic and then click ‘Post’	Your system will refresh and display message: Post is published	Pass	Post is published and added into community

5.3.4. Test Case: 04

Table 5.6: Test Case-05

Test Case #: 5	Test Case Name: Create Event
System :DIU Community	Subsystem: N/A
Designed By: Sarowar Alam Saidi (153-35-1329)	Design Date: 27-11-2019
Executed By: Sarowar Alam Saidi	Execution date: 29-11-2019

Pre-Condition: Student Must be logged in into the system.

Step	Action	Expected System Response	Pass/Fail	Comment
1.	Click 'Post' without set date and leave type and description field empty	The system will display the message: please fill out this field. For date setting and description	Pass	Date must be needed to create an event.
2.	Set date and select event Type and leave description field empty and click 'Post'	The system will display the message: please fill out this field. For description.	Pass	Event description is also required
3.	Set date, select event type, upload a file is there any, and write event description then click 'Post'	Your system will refresh and display message: event is created.	Pass	Event is created at required time.

CHAPTER 06: USER MANUAL

6.1. Log in and Registration (Student):

Registered student can interact with system by logging in with his/her varsity provided email and valid password. If still not a registered user, then student can create account by clicking 'create account' then fill the form and submit it.

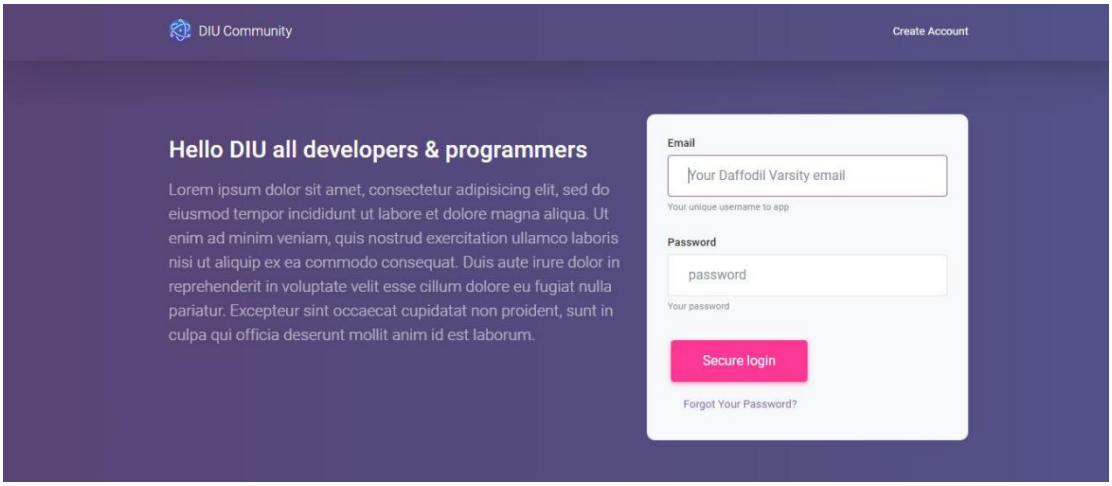

Figure 6.1: Log in (Student)

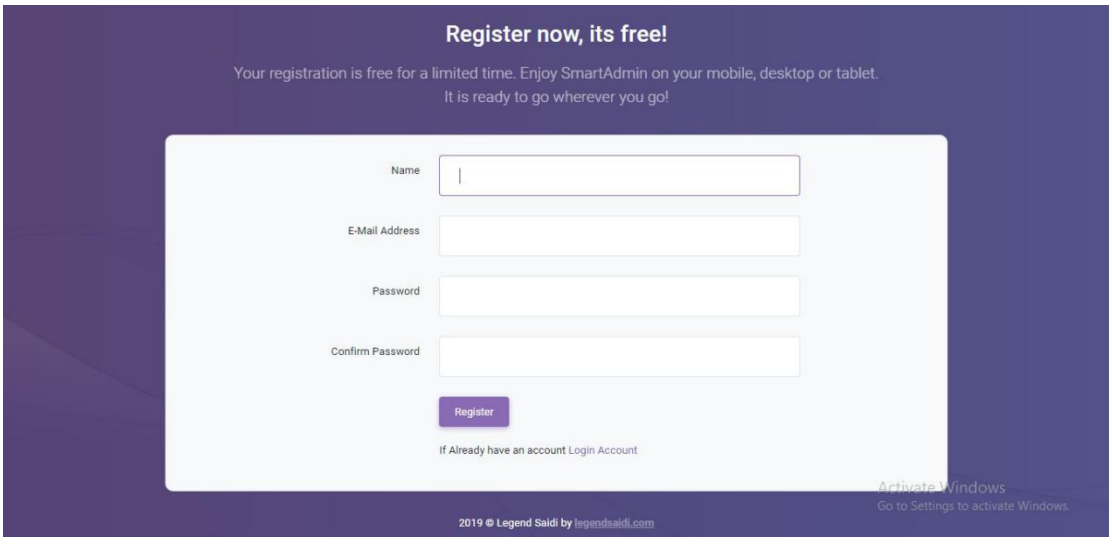

Figure 6.2: Registration (Student)

6.2. Profile and update Profile(Student)

Student will be able to his/her own profile where he/she can update personal information and skills.

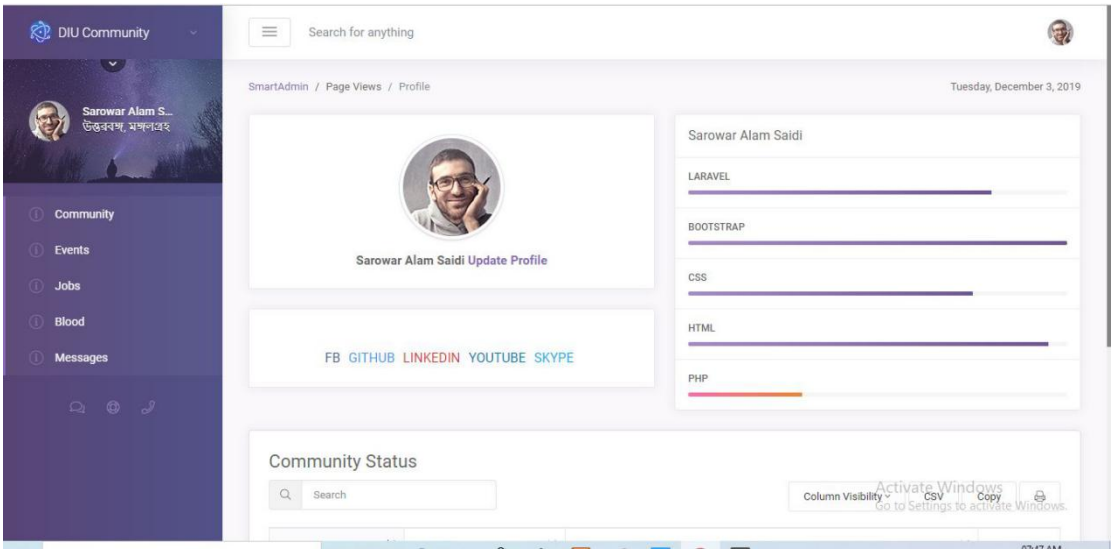

Figure 6.3: View Profile(Student)

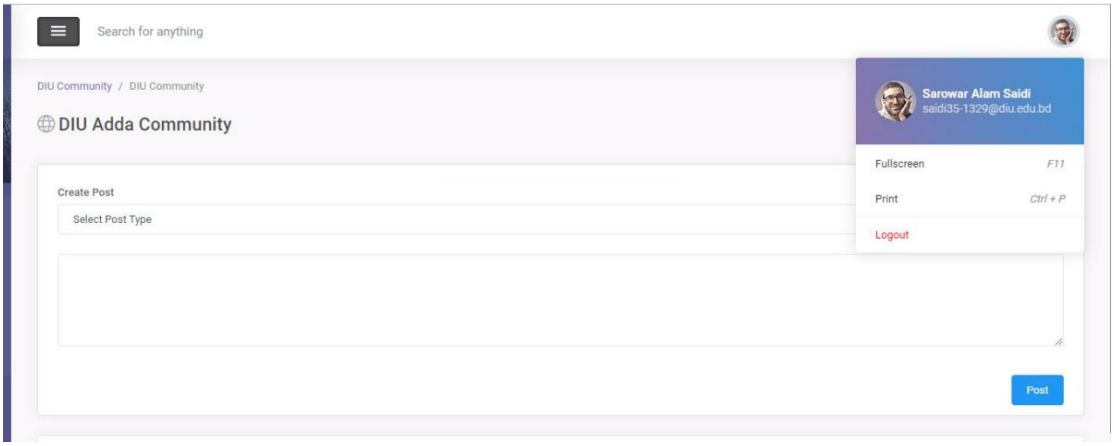

Figure 6.4: View Profile(Student)

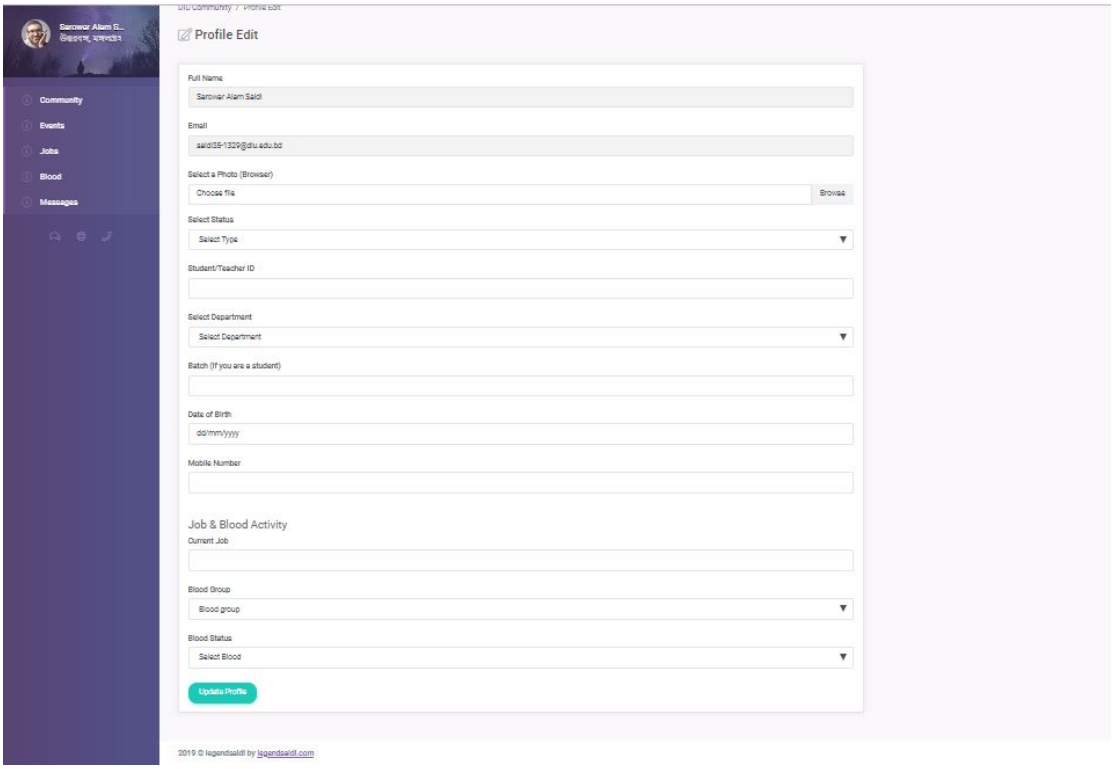

Figure 6.5: Update Profile (Student)

6.3. Community, Job, Event and Blood posts and Search (Student)

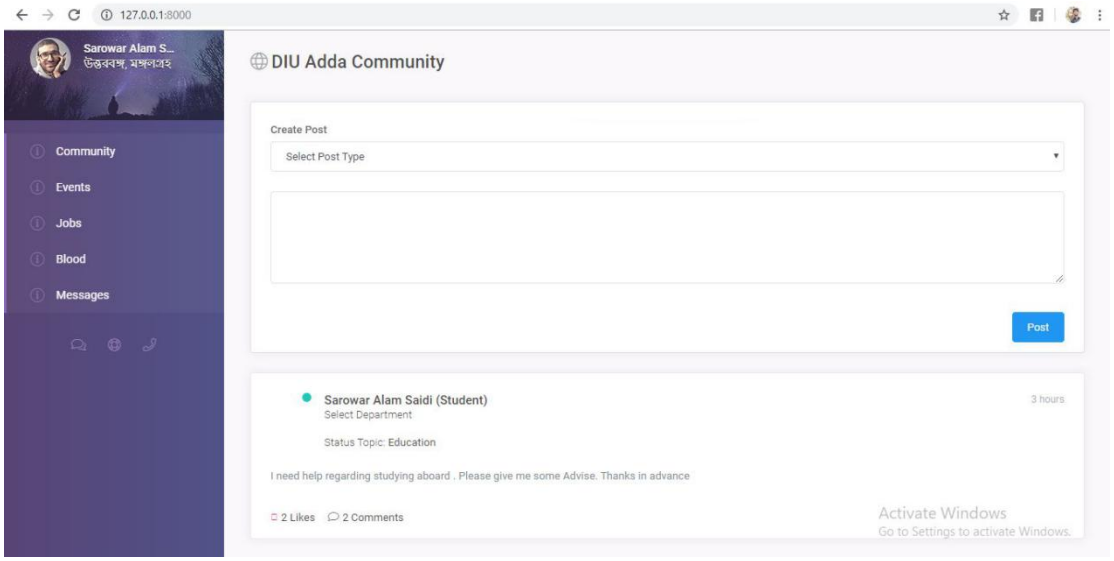

Figure 6.6: Community Posts (Student)

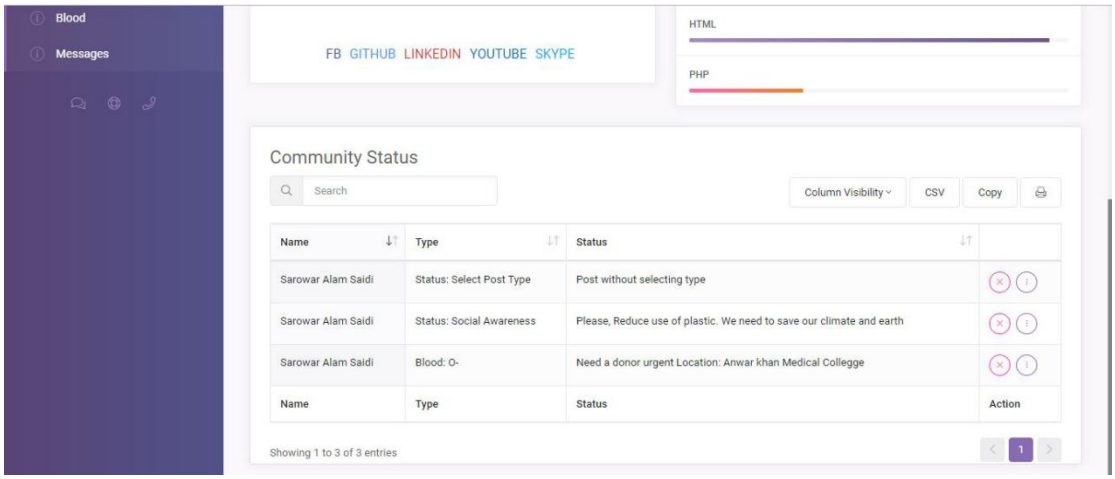

Figure 6.7: Manage Community Posts(Student)

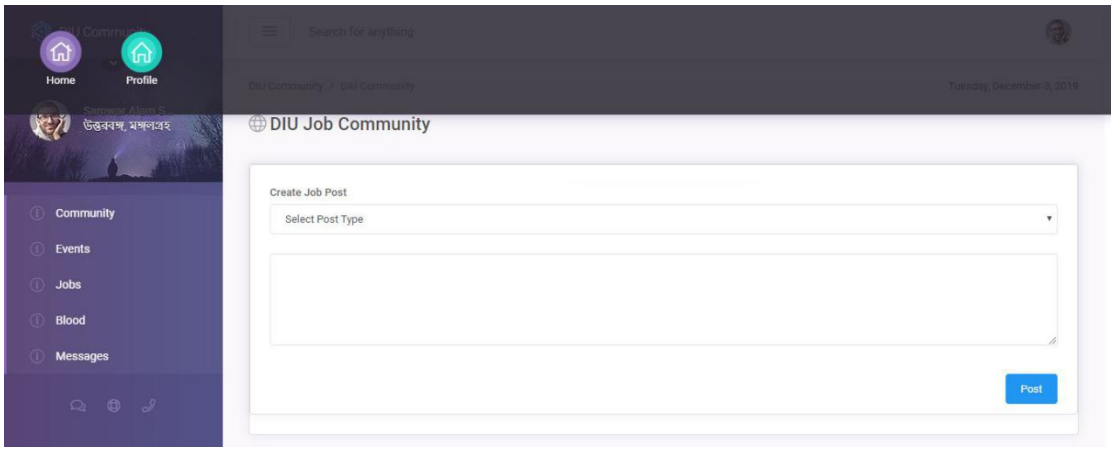

Figure 6.8: Job Post (Student)

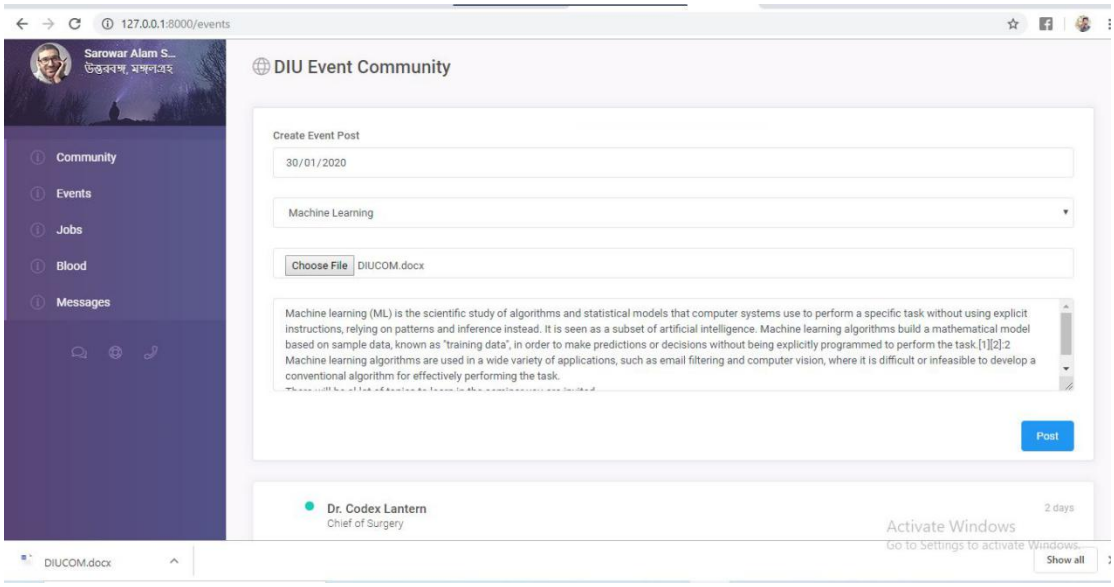

Figure 6.9: Event post (Student)

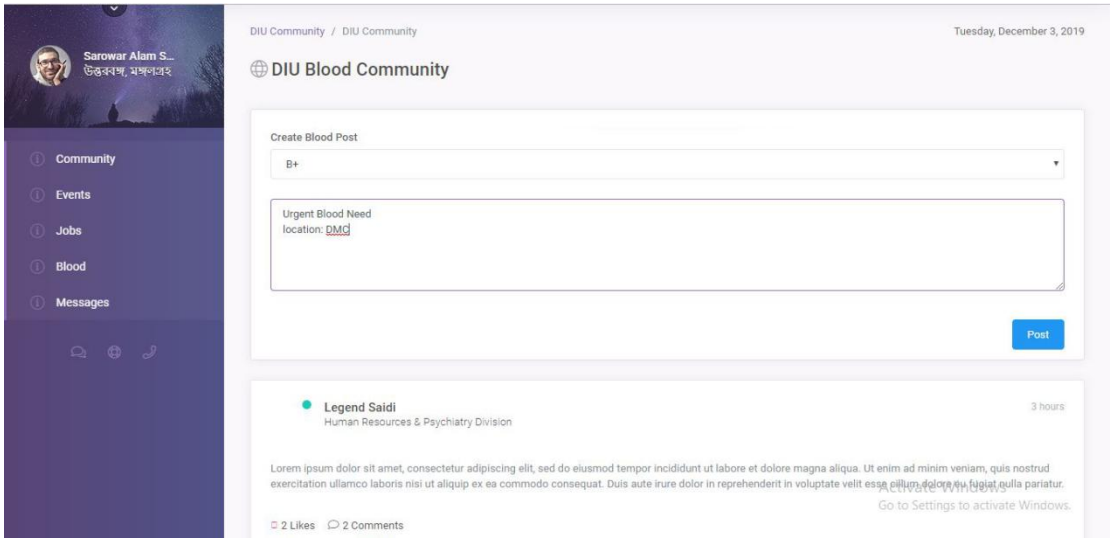

Figure 6.10: Blood Post (Student)

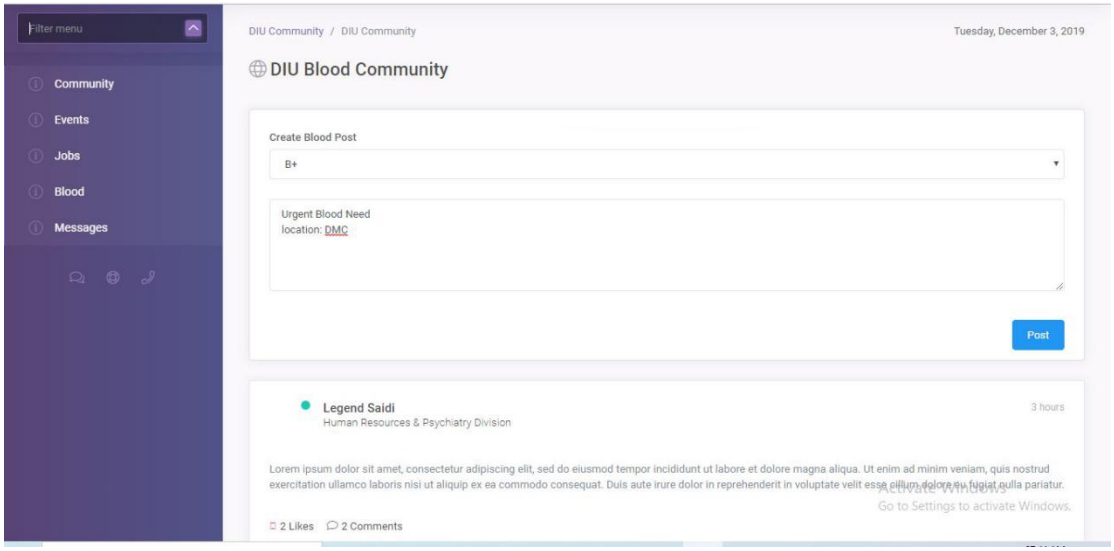

Figure 6.11: Search (Student)

CHAPTER 07: PROJECT SUMMARY

7.1. GitHub Link

https://github.com/Sarowar-Alam-Saidi/DIU-Community

7.2. Limitations

1. This system is only for Students of DIU. So, must need a DIU mail to access into system.
2. Web based system. So students have to use internet to get in to web site.
3. No android version. Mobile is a portable device. So, most of the people choose android version for any system though this hasn't android version.

7.3. Obstacles & Achievements

The laravel MVC framework is updating every day so it's quite tough to work with new technology. The library function of PHP laravel and its community is also very helpful though the implementation is hard and there was lots of error while developing this system.

Before starting this project, I didn't know about actual flow of the software development life cycle and I didn't use documentation properly but working on this project I finally get chance to fix my limitation at those aspects.

With the help of my supervisor's I have revised and learnt crucial topics like system requirement specification, system analysis. I think in this project obstacles helped me a lot to learn.

7.4. Future Scope

This system is for DIU students, so there is a lot of hope for this system in near future. Because students can modify the system using Git version control.

Though this system still not has a lot of feature, I have future release plan for the system when new technology and feature will be added in term of helping DIU students and ensure a rich and strongest community for students.

Conclusion

Though I have successfully implemented the system “DIU Community” but there also some restriction in my project. This project is developed for Daffodil International University. This project will must help students of Daffodil International University. Now this web system is using “local host”. In near future domain should be taken and launch this web application. Alhamdulillah, I have developed the system for my university this makes me proud.

Appendix

May include any supporting material which is not essential for the main body of the report, these could be-

- User Manual or Guide
- Tables
- Details Requirements
- Diagrams
- Test Plans and results

References

[1]. Database design and diagram [Access on 20 October 2019]

Erdplus.com

[2]. Activity Diagram, Use case Diagram, Class Diagram [Access on 20 August 2019]

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[3]. Book: Developing software with UML Author: Bernd Oestereich [Second Edition], Chapter 5, Section 5.3 Use case Diagrams, Page. 161

[4]. Book: Developing software with UML Author: Bernd Oestereich [Second Edition], Chapter 5, Section 5.3 Class Diagrams (Relational Elements), Page. 219

[5]. Book: Developing software with UML Author: Bernd Oestereich [Second Edition], Chapter 3, Section 3.2 Developing the System Idea and Objective, Page. 64