



DIU ALUMNI WEB PORTAL

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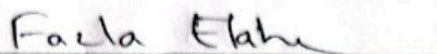
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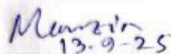
This project titled on "DIU ALUMNI WEB PORTAL", submitted by **Mohammad Shouray (ID: 201-35-626)** to the Department of Software Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of Bachelor of Science in Software Engineering and approval as to its style and contents.

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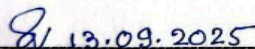
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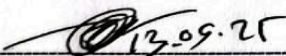
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DECLARATION

I hereby declare that I took the project under the supervision of **Dr.Md.Fazla Elahe**, Assistant Professor & Associate Head, Department of Software Engineering, Daffodil International University. I also declare that this report has not been submitted elsewhere for any award or degree.

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ACKNOWLEDGEMENT

Above all, I am grateful to Almighty Allah for qualifying me for this project and allowing me to complete it successfully. I would like to thank my supervisor, Assistant Professor and Associate Head of the Department of Software Engineering, Dr. Md. Fazla Elahe. I am very grateful to him for his expert, sincere, and valuable guidance and encouragement to continue my utmost efforts in this project.

Secondly, I would like to express my gratitude to my parents and friends for their invaluable support in completing this project within a limited time frame.

This project has been carefully crafted to meet the requirements of stakeholders. It is a testament to my commitment and preparation to pursue a bachelor's degree in software engineering.

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****Chapter 1: Introduction****

1.1.1 Project Review

DIU ALUMNI PORTAL is a website where DIU alumni and current students join in one place. By joining all of the Students, we can create a social connection. We are making a diu community. This alumni web portal provides job opportunities for our alumni and current students. From this web portal, DIU can get skilled students. This web portal keeps track of how many students are passing every year and how many students are getting jobs after finishing their BSC

1.1.2 Project Purpose

Nowadays, we can see that many Educational institutions abroad have personal websites for their students. They use this website for many purposes. After seeing that website, I decided I would make a website for our University. And after hard work, I made the DIUALUMNI WEB PORTAL. This portal helps our students get a job. Our present students can keep in contact with alumni, which they think it helps the fresher. This website also helps the University to get skilled students as employees of our university. Through this web portal, our University can keep in contact with all students, and they can keep a clear idea about alumni, where they are working after completing their graduation.

1.1.3 Proposed System

I'm totally clear with my purpose, and that's why I proposed this system. In this System, there are two types of stakeholders in DIU ALUMNI WEB PORTAL, such as

1. Users
- 2 . Admin

Users:

This website offers a diverse experience for two types of users: Registered Users and Unregistered Users. By registering, you unlock the full potential of our features and enhance your interactions. As a Registered User, can easily log in to the portal and personalize profile.

Moreover, gain access to exciting functionalities, such as checking polls, showcasing your skills, adding social links, updating your password, and managing your account seamlessly. Don't miss out—register today and elevate your experience!

Admin:

Admin can give a post, check the number of alumni, search alumni, check their details, change password, and delete accounts . Admin can also send mail.

****Chapter 2: System Analysis****

2.0.1 Functional Requirements

Refer to the tasks required to build a website. This includes the essential features and functionality of the site.

2.1.1.1 Authentication

Table 2.1.1.1 Authrntic

01	Authentication
Descriptions	Both users and administrators access this website by entering their email address and password. The system will verify their credentials.
Stakeholder	Users , Admins
Priority	High

2.1.1.2 Table 2.1.1.2 Log

002	Login
descriptions	To fully enjoy all the features this website has to offer, users and administrators are encouraged to log in with their accurate email and password.
Stakeholder	User, Admins
Piority	high

2.1.1.3 Profile

1.1.3 Profile

Fr 03	profile
Description	Users need to make a profile with his/her right information.
Stakeholder	User
Priority	High

2.1.1.4 Profile Update

Table 2.1.1.4 Profile Update

04	profile update
descrip	Users have the opportunity to update their information. Admin also updates their information.
Stakeholder	user and admin
Priority	High

2.1.1.5 Add Skill

Add Skill

05	Add Skill
descriptions	Users need to add their educational background. They need to submit their special skill information.
Stakeholder	User
Priority	High

2.1.6 Add Social Link

Table 2.1.6 Add Social Link

Fr 06	Add Social Link
Description	For users, it's mandatory to submit all using the social link.
Stakeholder	Users
Priority	High

2.2 Intangible Requirements

Intangible requirements refer to the general characteristics of a system. We can also tell them the qualitative characteristic.

The intangible criteria of the DIU ALUMNI web portal include:

Usability

- To interact with the system, the portal can present the user with a help and assistance menu.

Secure

- To prevent unauthorized access, I set up an authentication system with a login and a password.

Performances

- The operating time of the device for each instruction executed by the operator should be less than 10 seconds.

The success rate of the device should be high when providing user input.

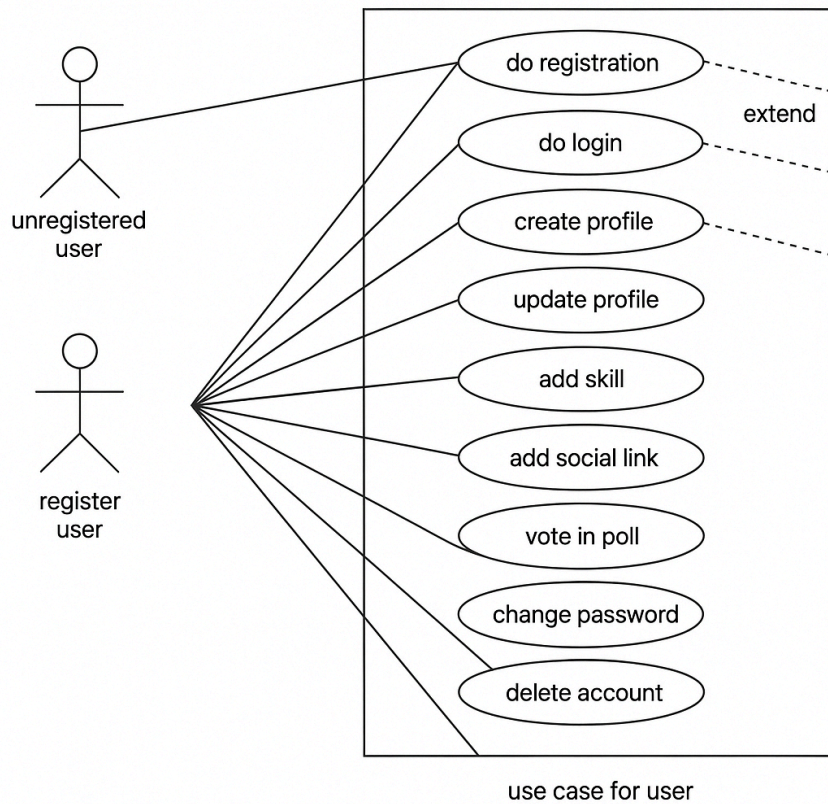
The machine should be able to respond to very complex operations in a short time.

Availability

- The device must be operational 24 hours a day, seven days a week.

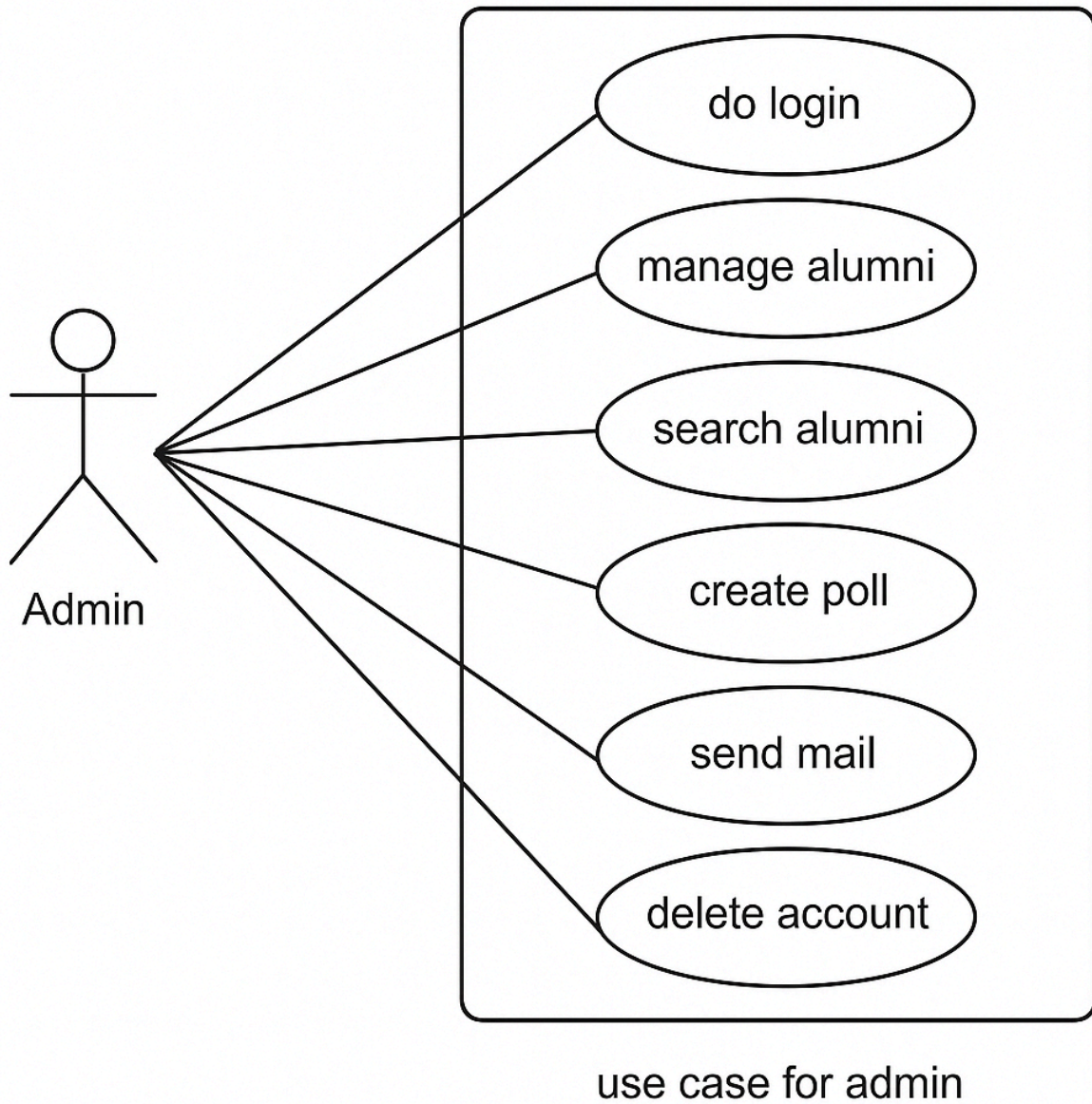
****Chapter 3: System Design****

3.1.1.1 User Case Diagram: the user



3.1.1.1 User Case Diagram: the user

3.1.1.2 User Case Diagram for Admin



3.1.1.2 User Case Diagram for Admin

3.2.2.2 User Case Description

3.2.2.1 Authentication

Table 3.2.2.1 Authentication

User case	Authentic
User Case Number	001
Aim	Function of the sign-in or sign-up section.
Primary actor Secondary actor	User,admin.no
Description	1. Giving email and password 2 .signed in 3. If users have no account, they need to open an account first, and then they can sign in to the site.
Exception	Without an internet connection, users can not register.
Priority	High

3.2.2.2 profile

3.2.2.2 profile

User Case	profile
Case no.	02
Aim	Users create profiles that include their personal information.
Primary actor Secondary actor	User no
Description	<ol style="list-style-type: none">1. To make a profile, click here.2. Complete all fields.3. After completing all fields, click submit.
Exception	The user can make a profile after logging in.
Priority	High

3.2.2.3 Profile Update

Table 3.2.2.3

Use Cases	Profileupdate
User Case number	003
goal	Take charge of experiences by updating info.The user is missing information, needs to add new information, or change information.
Primary actor Secondary actor	Users. No
Description	<ol style="list-style-type: none">1. Click the Update information button.2. Make changes where needed.3. Click the submit button.
Exception	Without the internet, users can not update profiles.
Priority	High

3.2.2.4 add Skill

3.2.2.4 Add Skill

User case	add Skill
use cases no.	04
aim	Users must fill in this add skill field.
Primary actor Secondary actor	Users. No
Description	<ol style="list-style-type: none">1. Click the Add Skill button.2. Fill up all necessary fields3 . Click the submit button.
Exception	Without completing this field, it is shown as incomplete.
Priority	High

3.2.2.5 Add Social Link

3.2.2.5 Add Social Link

cases	Add Social link
Use case no.	05
Goal	Users need to submit their social link. By social link, we can understand users' information.
Primary actor Secondary actor	Users. No
Description	<ol style="list-style-type: none">1. Click the social link button.2. Fill up all necessary fields3. Click the submit button.
Exception	Users submit their original social link, and we can justify it.
Priority	High

****3.3 Activity Diagram****

3.3.3.1 activity diagram Admin

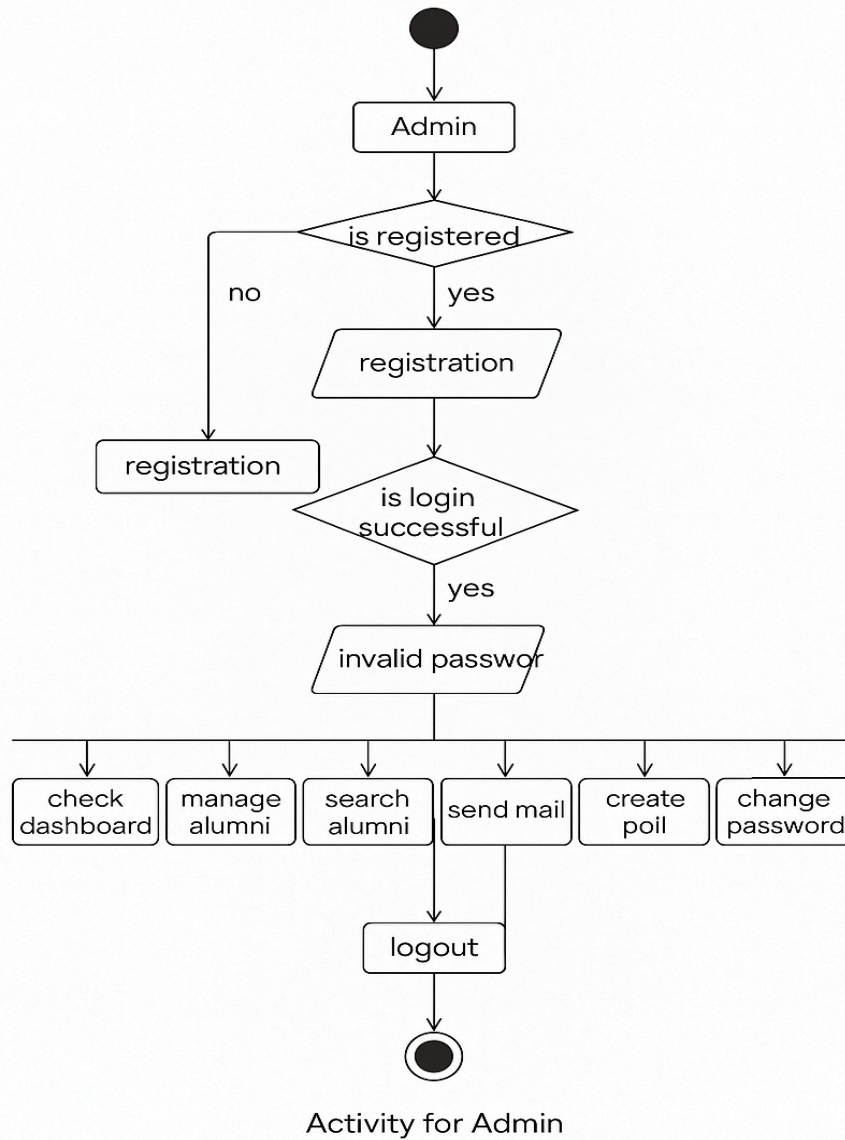
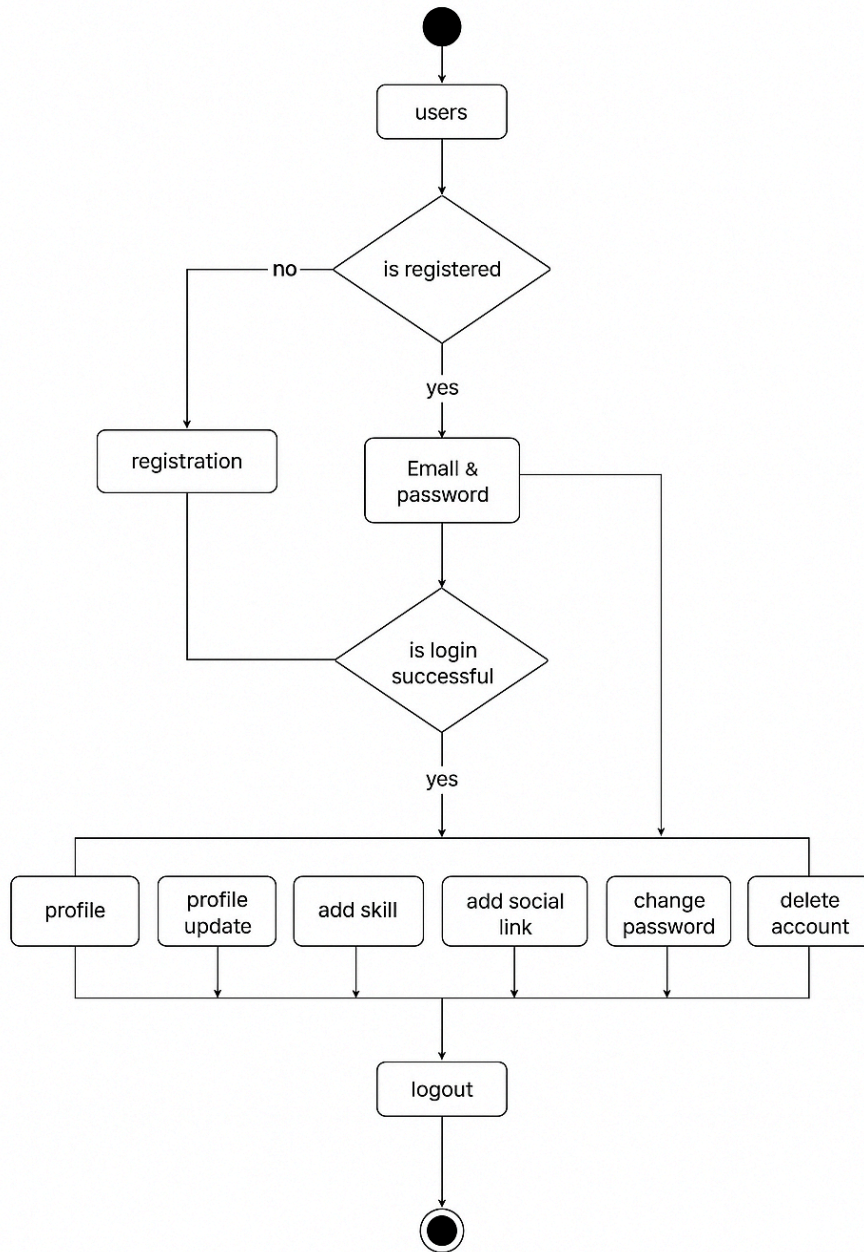


Figure 3.3.1 Activity Diagram for Admin

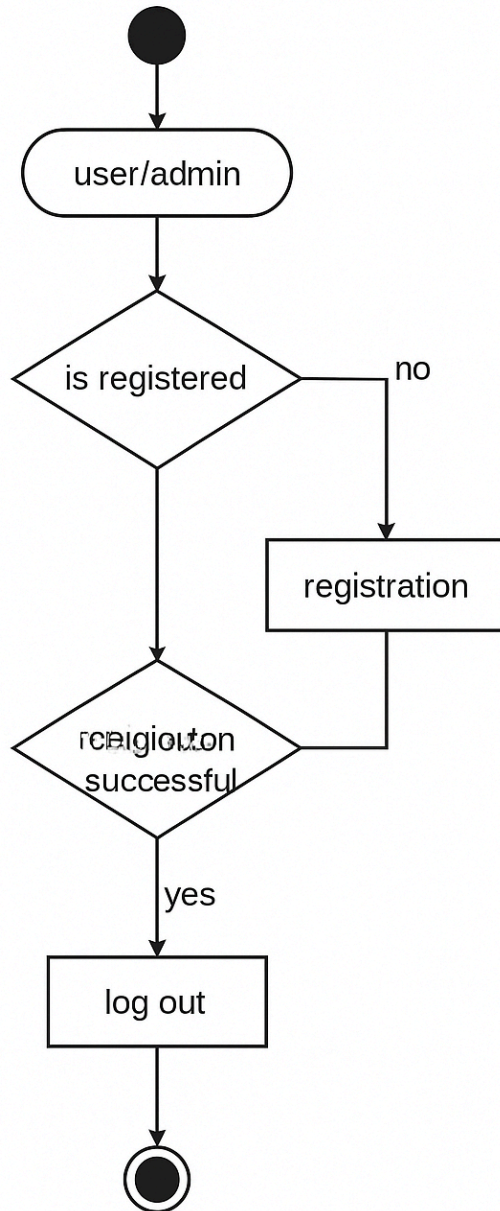
3.3.3.2 activity diagram for user



Activity for user

3.3.2 activity diagram for User

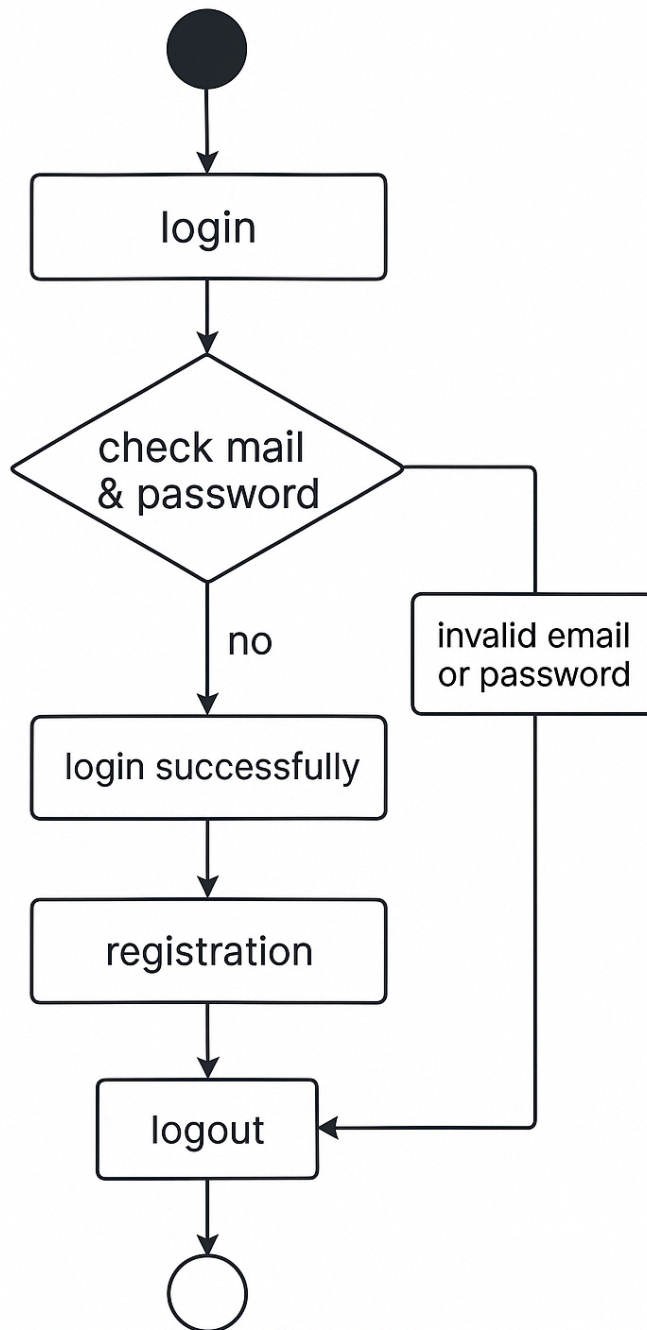
3.3.3.3 active gram the login system



Activity for login

3.3.3.3 active the log system

3.3.3.4 Activity Diagram of the Registration System

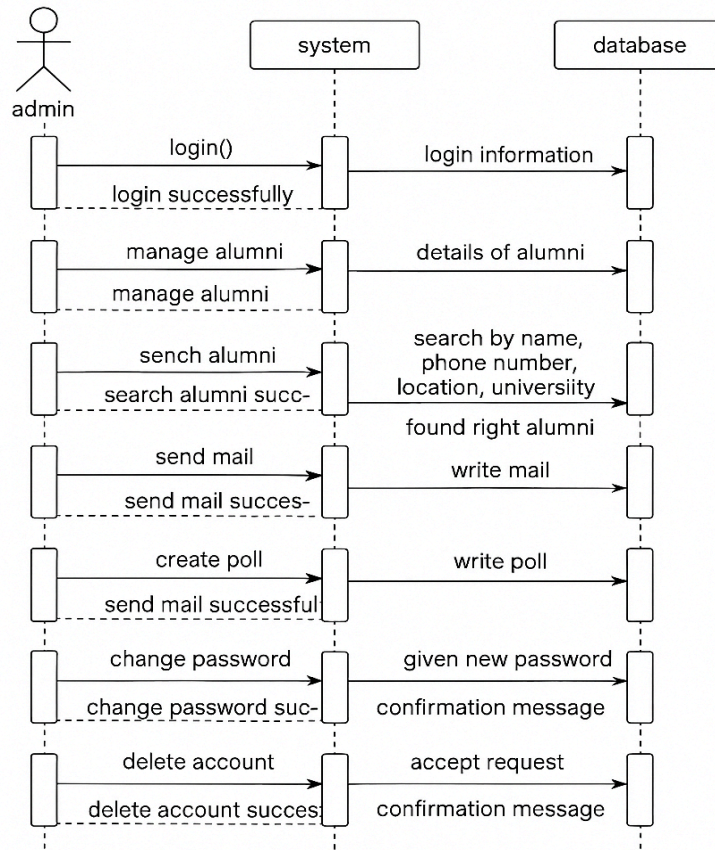


Activity for registration

3.3.3.4 Activity Diagram of the Registration System

****3.4 Sequnces Figure****

3.4.4.1 secunce for admin



sequence diagram for admin

3.4.4.1 Sequences for admin

3.4.4.2 Sequence Diagram for alumni

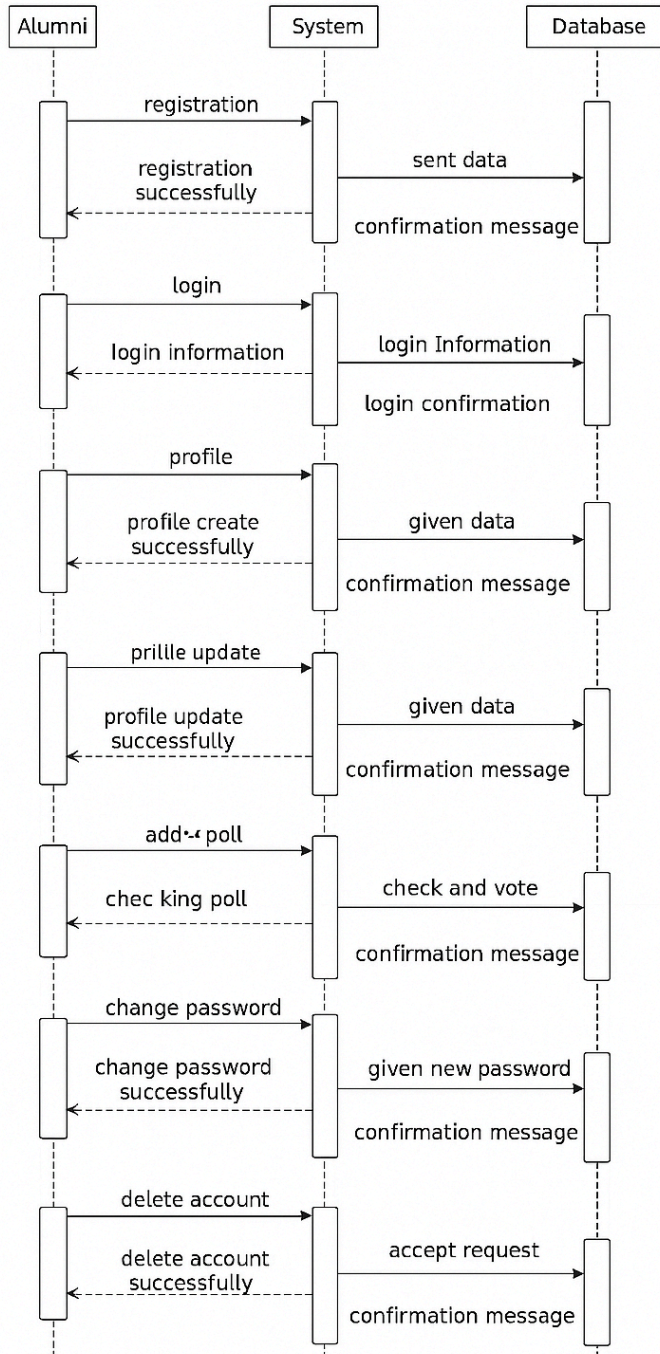


Diagram 3.4.4.2 for alumni

3.5 ERD Diagram

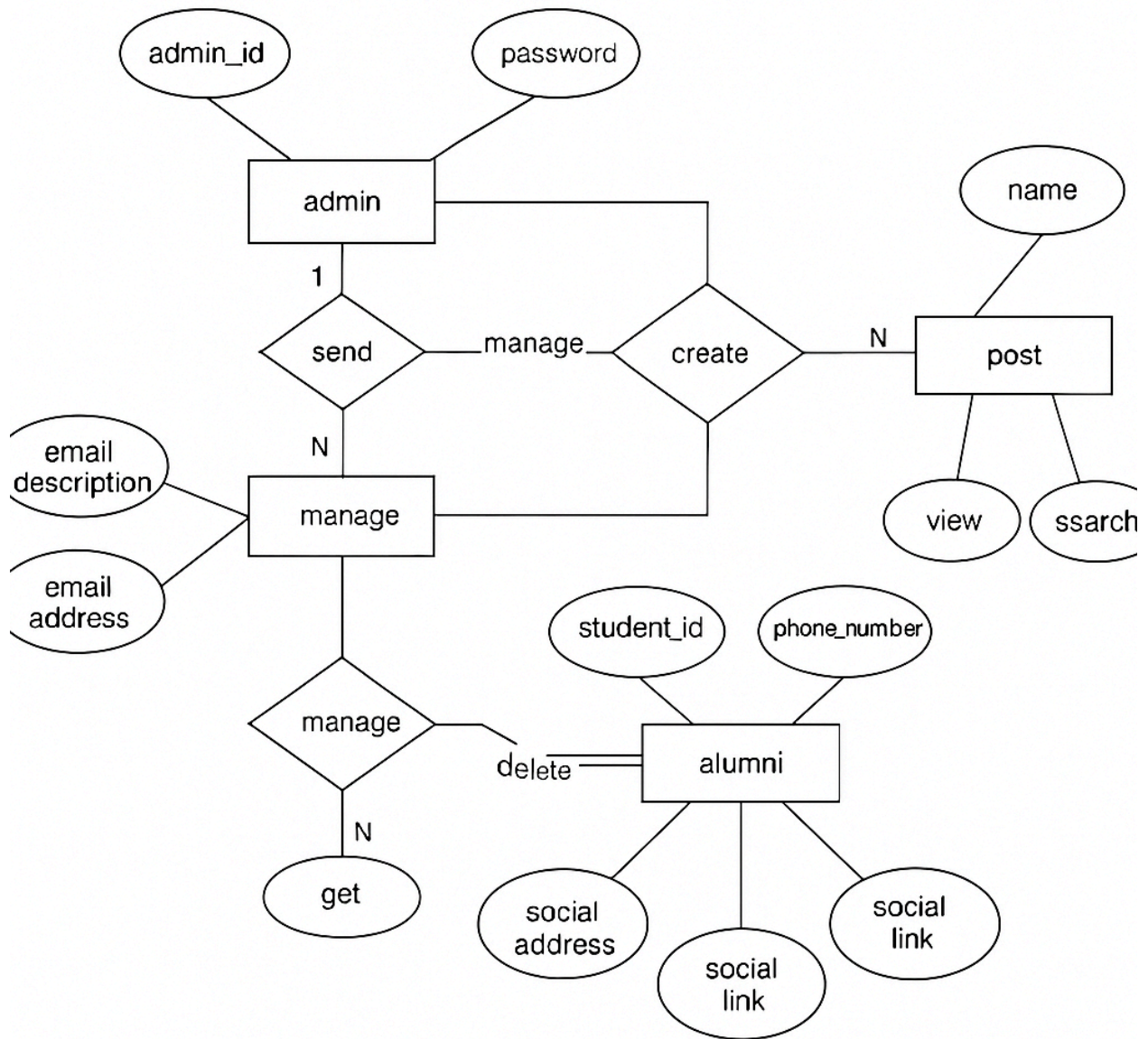


Figure 3.5 ERD Diagrams

Chapter 4: Essential Tools and Technologies for Development

****4.1 Integrated Development Environment (IDE)****

VS Code is widely used by developers for various programming tasks. It offers a rich set of features, including code editing and debugging, with its intuitive interface and robust functionality. I'm not a coding expert, that's why I select Visual Studio for correcting code by highlighting the bugs, and I can correct those bugs easily.

4.2 O.S.

An operating system is essential software that efficiently manages both computer hardware and software resources. Every computer relies on an operating system to function optimally. For this project, I decided to use the Windows 10 operating system, which offers powerful features and a user-friendly design.

4.3 Programming Language

HTML5 - The backbone of the website's structure and markup.

CSS3 - Elevate your design with dynamic styling, engaging animations, responsive layouts, stunning gradients, and captivating glass morphism effects.

JavaScript (Vanilla JS) - Power up with seamless interactivity, efficient form handling, and robust user management.

4.4 Database

Effectively emulates database capabilities by using in-memory JavaScript objects and arrays, increasing performance and responsiveness.

****Chapter5 System Tetsing****

5.1.1 test feature

Feat ares	Priority	Description
Authentication	High	All users must be logged in and authenticated.
Registration	High	All users need to register first.
Profile Updated	Medium	User can update their profile.
Add Social link	High	User must submit their social link.
Add Skill	High	The user must submit their skill.
Search Alumni	High	Admin can search Alumni
Change Password	High	User can change their password.

5.2 Testing Strategies

- A) Effective Functional Testing
- B) User Interface test
- C) Secure Test
- D) Performances test cases
- e) Integration test
- F) Usability Testing

****5.2.2.1 Testing Approach****

Automated Test: The test techniques is automation. Testers need to complete some actions to test the software. By automation testing, testers find out bugs, defects, and any other issues that can arise during test cases.

By default, test: natural testing process, software testes for defects. In manual testing, the developer checks all functions as a user and finds a software problem.

Integration Testing: Integration testing follows unit testing and involves evaluating how different units or components of the software work together. This method combines modules so that they work in harmony.

5.2.2.2 Passed or Failed Check

Engineers are setting limit of passes or failed criteria. are looking at which input is working and which is not working.

- If a portal crashes, it will not count as a pass.
- Portal passes 100% of the time, it is only counted as passing the criteria.
- Data not be display in this system Must count as a failure criterion.

5.2.2.3 testing time

table 5.2.3 Testing Strategies

Tets Strategies plan	7 times
test specific	7Day
Init test cases	development
Validating Use Cases	Sixteen times
Performance	15Day
Integration testing	7 days
Load testing	4 days

5.3 Test Cases

5.3.3.1 Authentication

Table 5.3.1 Authentification

case1	Test name: Authentication
Priority: High	System: Windows 10
Designed by: Mohammad Shourov	Designed date: 09/02/25
Executed by: Mohammad Shourov	Executed date: 09/02/25
Short Description	Systems login & registration section.
Precondition	1. Users must first sign up. 2. If users have no account, they need to open an account first.

Step	name	Mail	pass	Possible result	failed/pass es
001	admin	admin@diu.edu.bd	admin123	Successfully logged in & registered	Pass
2	test	test@gmail.com	test123	Invalid	Fail

5.3.3.2 Registration

Registration

002	name: registration
System: fill out the form	Subsystem:
Executed by: Mohammad Shourov	Executed date: 09/02/25
Short Description	It's the system registration section.
Precondition	1. For using the website, users must first sign up

Step	Action	Response	Pass/Fail
1	User input all their information	Need to fill up the form	Pass
2	The user did not give all the information	Some fields are not filled up	Fail

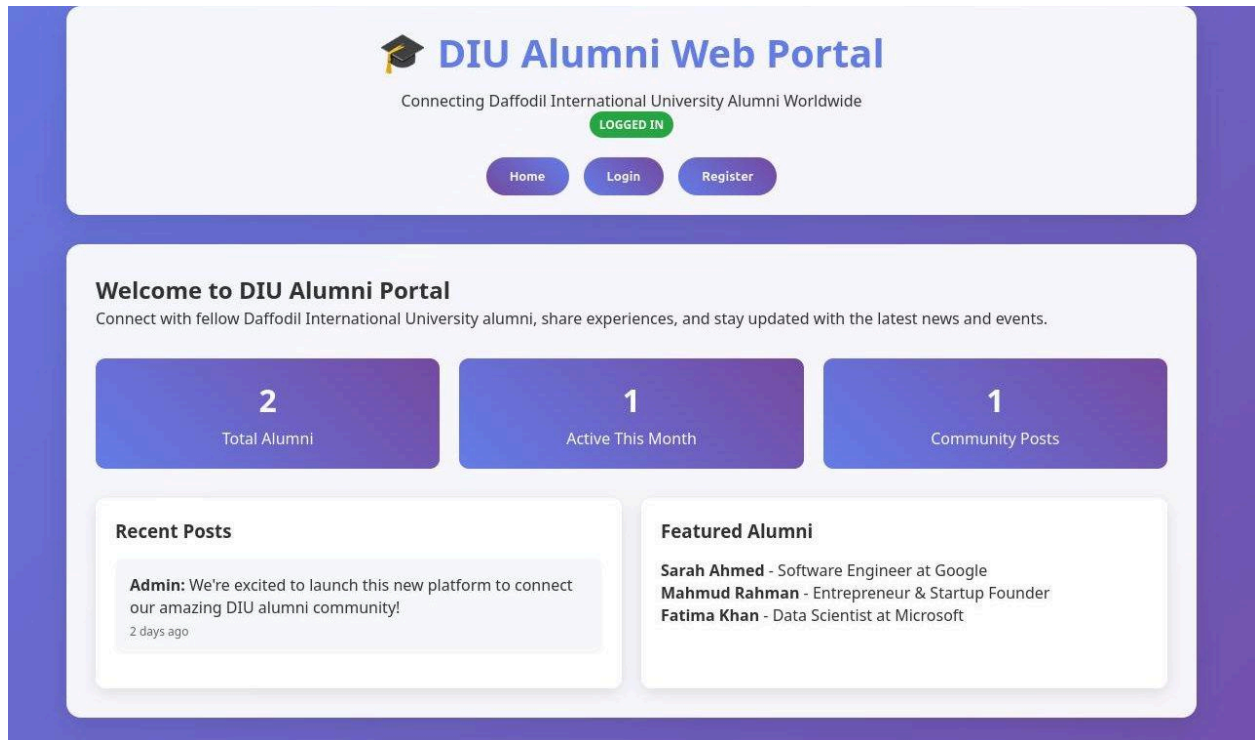
5.3.3.3 Search Alumni

003	Search Alumni
Test Case Priority: High	System:
Created :	Featured time :
Mohammad Shourov	09/02/25
Short Description	It's the system search alumni section
Precondition	1. Must complete login and registration

Step	Action	Response	Pass/Fail
1	Admin can search alumni	Search by name	Pass

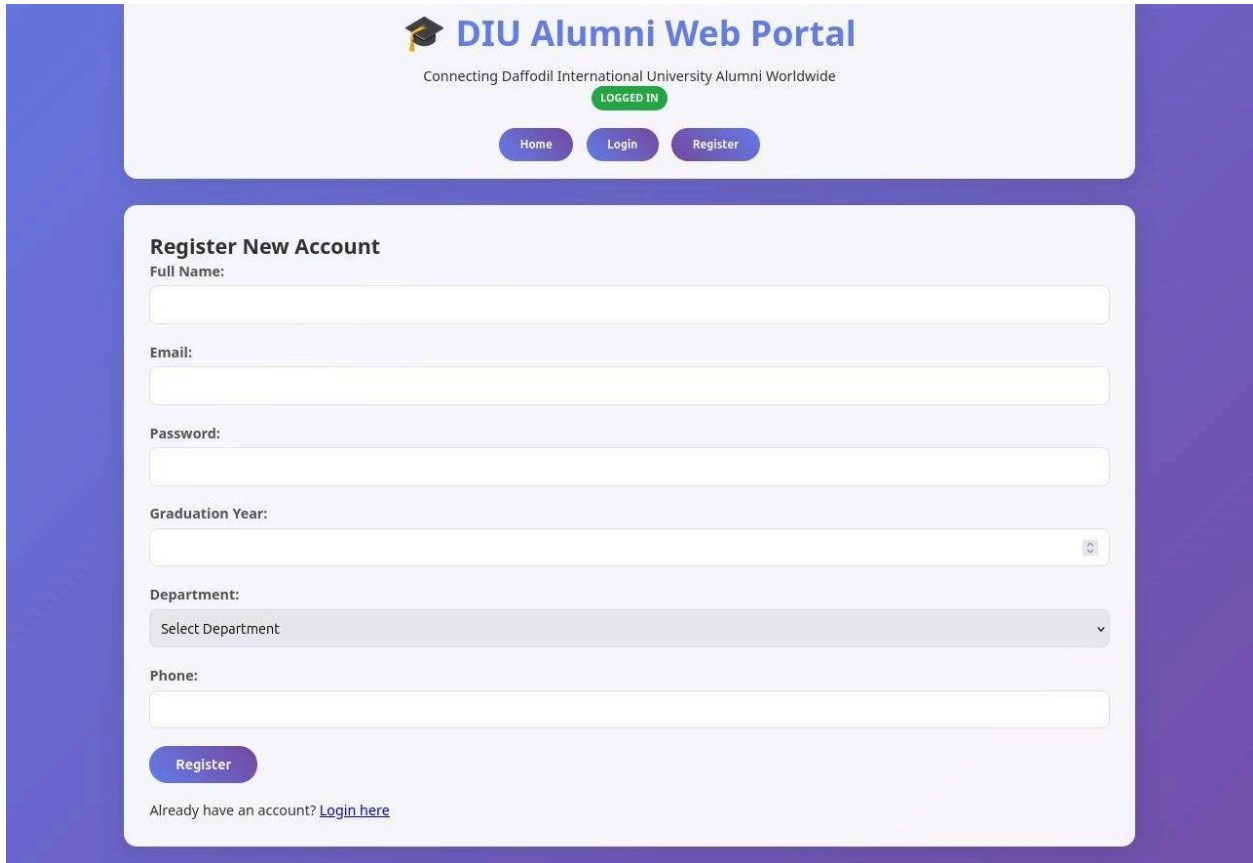
****Chapter 6: User Manual****

6.1.1.1 Homepage



User manual for DIU ALUMNI WEB PORTAL

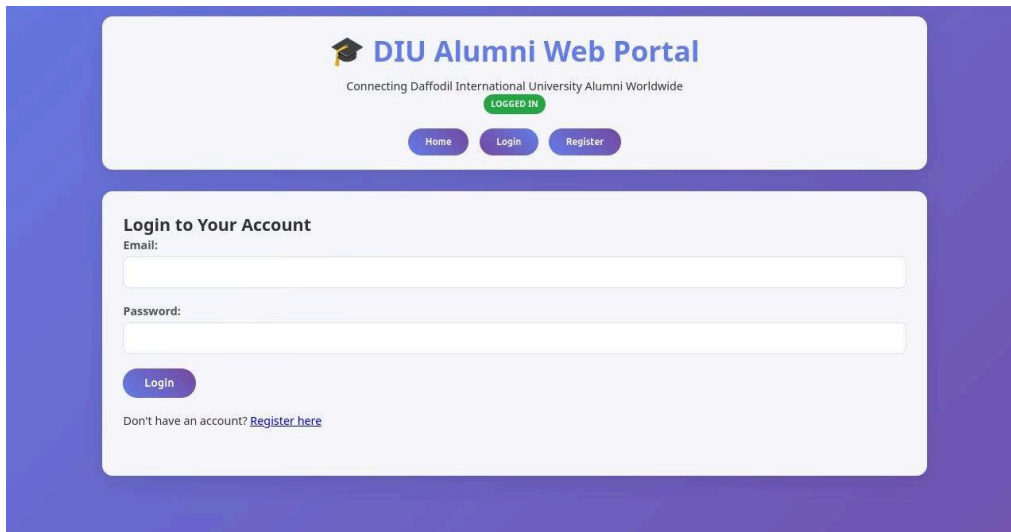
6.2.2.2 registered



The screenshot shows the 'Register New Account' form on the DIU Alumni Web Portal. The header includes the university logo, the title 'DIU Alumni Web Portal', the tagline 'Connecting Daffodil International University Alumni Worldwide', a 'LOGGED IN' indicator, and navigation buttons for 'Home', 'Login', and 'Register'. The registration form contains the following fields: 'Full Name' (text input), 'Email' (text input), 'Password' (text input), 'Graduation Year' (dropdown menu), 'Department' (dropdown menu with 'Select Department' as the current selection), and 'Phone' (text input). A 'Register' button is located at the bottom of the form, and a link for 'Login here' is provided for existing users.

User manual

6.3.3.3 Log



The screenshot shows the 'Login to Your Account' form on the DIU Alumni Web Portal. The header is identical to the registration page, featuring the university logo, title, tagline, 'LOGGED IN' indicator, and navigation buttons. The login form contains two fields: 'Email' (text input) and 'Password' (text input). A 'Login' button is positioned below the password field, and a link for 'Register here' is provided for users who do not have an account.

Figure 6.3 User manual for Login

6.4.4.4 Pro

My Profile

Full Name: Admin User

Graduation Year: 2020

Email: admin@diu.edu.bd

Department: CSE

Phone: +880170000000

Bio: System administrator for DIU Alumni Portal

Current Company: DIU

Location: Dhaka, Bangladesh

Position: System Administrator

[Update Profile](#)

Skills

Add a skill...

[Add Skill](#)

System Administration x Database Management x

Social Links

LinkedIn: <https://linkedin.com/in/yourprofile>

GitHub: <https://github.com/yourusername>

Facebook: <https://facebook.com/yourprofile>

[Update Social Links](#)

Account Management

[Change Password](#) [Delete Account](#)

User manual for Admin Profile

6.5.5.5 Admin Panel

The screenshot displays the 'Alumni Management' interface. At the top, there is a search bar labeled 'Search alumni...'. Below this, two user profiles are listed in a light blue container. Each profile includes a name, email, department, graduation year, company, position, location, a bio, a list of skills or interests, social media links, and three action buttons: 'View Details', 'Delete Account', and 'Send Email'.

Alumni Management

Search alumni...

Sarah Ahmed

Email: sarah@example.com **Department:** CSE **Graduation:** 2019 **Company:** Google
Position: Software Engineer **Location:** California, USA

Bio: Passionate software engineer working on cutting-edge technologies

JavaScript React Node.js Python

linkedin github

View Details Delete Account Send Email

Mahmud Rahman

Email: mahmud@example.com **Department:** BBA **Graduation:** 2018 **Company:** StartupX
Position: CEO & Founder **Location:** Dhaka, Bangladesh

Bio: Entrepreneur building innovative solutions for emerging markets

Leadership Business Strategy Marketing

linkedin facebook

View Details Delete Account Send Email

User manual Admin Panel

6.6.6.6 Profile

The screenshot shows a web application interface. At the top, there is a navigation bar with a green 'LOGGED IN' indicator and five buttons: Home, Profile, Polls, Alumni Directory, and Logout. Below the navigation bar is a main content area titled 'My Profile'. The form contains the following fields:

- Full Name:** Sarah Ahmed
- Graduation Year:** 2019
- Email:** sarah@example.com
- Department:** CSE
- Phone:** +880170000001
- Bio:** Passionate software engineer working on cutting-edge technologies
- Current Company:** Google
- Position:** Software Engineer
- Location:** California, USA

Below the form is an 'Update Profile' button. A horizontal line separates this section from the 'Skills' section, which includes an 'Add a skill...' input field and an 'Add Skill' button.

manual for User

Chapter 7: Project Summary

7.1.1.1 Summary

The project name “DIU ALUMNI WEB PORTAL” is taking various data from different sources. Discuss with my supervisor and fix. Then made use of a use case diagram, writing the functional requirement, e.t.c.

7.2.2.2 Limitations

Only for a website. Lack of user information, cannot create any post, and no function to verify all information. Updating features, I keep the scope to update my project.

7.3.3.3 Future Plan

Right now, the project is web-based. In the future, I want to make Android versions of this system.

7.4.4.4 Project Link

<https://github.com/Ai5r/DIU-ALUMNI-WEB-PORTAL>

7.5.5.5 Conclusion

Any work may not be 100% there may still be some errors or wrong. I keep my project user-friendly. Always try to make it easy and comfortable for the user and admin. Hope this project helps our university to keep information about our alumni.

7.6 References

I learn from some websites and I have taken help from those websites. I mention this website below:

****Author or Company Name:**** Reference Data

****Website Title:**** W3Schools

****Website Address (URL):****

<https://www.w3schools.com/>

****Author or Company Name:**** Wikipedia

****Website Title:****Wikipedia, the free encyclopedia

Website address(URL):<https://en.wikipedia.org/>

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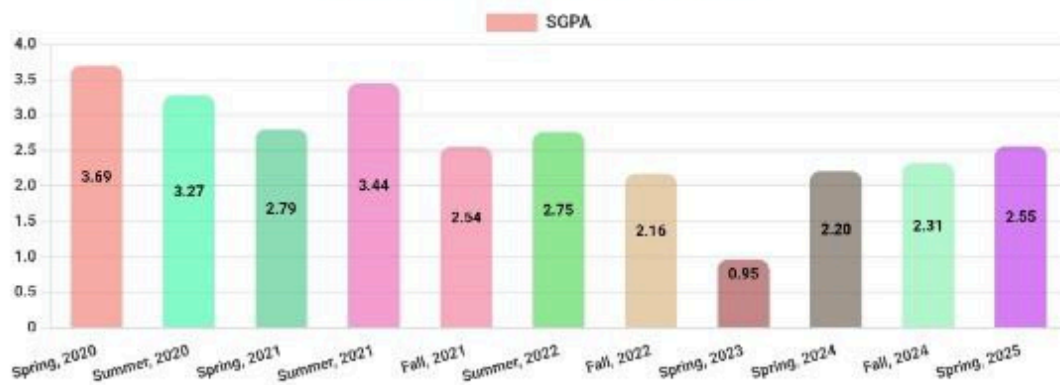
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Today's Routine - Saturday

No routine available for today.

Semester Wise Result

Semester-wise SGPA Performance





Welcome, **Mohammad Shourov**

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Dear applicant, photocopy of your transcript must be submitted while collecting forwarding letter from Department and original copy of the transcript must be shown.

Internship Information

Internship/Project/Thesis/Industrial Attachment Supervisor's Information

Group No	ID	Name	Cell No.	Supervisor	Company
57008	201-35-626	Mohammad Shourov	01937162188	Dr. Md. Fazla Elahe	Add Company

[Create Group](#)

[Delete Internship Information](#)

Please Edit Report Title

Internship Title : [Edit](#) [Remove](#)
 Project Title : [Edit](#) [Remove](#)
 Thesis Title : [Edit](#) [Remove](#)
 Industrial Attachment Title : [Edit](#) [Remove](#)

View Approval Status

Accounts Approval

Pending

Note :

Department Approval

Pending

Note :

Forwarding Letter

Not ready yet

■ Total Apply Position : 0
 ■ Total CV View : 0
 ■ Total Short Listed : 0

Assigned Questions

Month:

[All Answered Questions](#)

Monthly Report To : [Supervisor](#)

View Monthly Report From : [Supervisor](#)

Final(pre/final defence) Report : [Submit to Supervisor](#)

Answer Feedback Report

Month:

Corporate Evaluation Report

Month:

Surveillance Team Report

Team Member:

Month: