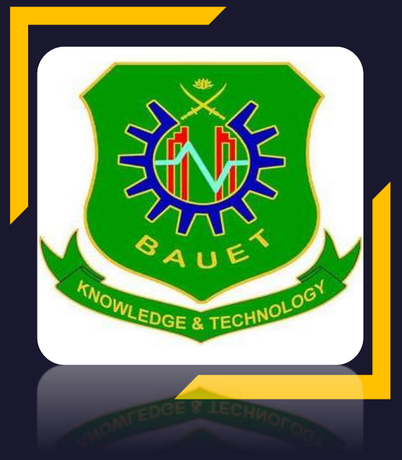

Bangladesh Army University of Engineering & Technology(BAUET)

Qadirabad, Natore-6431

Course Code: CSE-4100

Course Title: **Integrated Design Project/Capstone Project(Phase II)**

Topic: BAUET Alumni System

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Introduction

The BAUET Alumni System refers to a digital platform or software application designed to connect and engage graduates (alumni) of Bangladesh Army University of Engineering & Technology (BAUET).

Problem Statement

- Lack of centralized and up-to-date information
- Limited access to alumni expertise
- Limited Networking Opportunities
- Information Fragmentation
- Inaccessible Multimedia Sharing
- Inconsistent User Experience

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Motivation

- Interact with each other
- Share updates
- Connected with Varsity
- Connected with each other for professional and personal reasons
- Share achievement and success in wider community
- Promotion of varsity

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Objectives

- To connect with each other and the institution
- To keep alumni informed about news, events, and updates related to the institution
- To encourage alumni engagement and giving back to the institution
- To Showcase the achievements and successes of alumni
- To motivate present students and foster a sense of pride, acknowledge and celebrate the accomplishments of graduate
- To establish connections and partnerships with international alumni, expanding BAUET's global presence

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Background Study

- For Structured this website we had studied on different Univarsity Alumni Website.
- Studied on BUET ,Deffordil , IUT Universuty's websites .And from our supervisor we also watched some foreign University's website.We take idea from them
- Make our website different from the other univarsity's website.We try to study more but most of the university's website are locked for others

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Existing System

BAUET has already an alumni website .On that website there was –

- Log In
- Register
- Home Page
- Gallery

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be non-preemptive or
non-preemptive

Our System

In our system we are providing –

- Log In
- Register
- Alumni Collaboration
- A newsfeed for Job circular and other useful post
- Every Alumni has personal profile
- Funding for our club
- Share Post on newsfeed

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Comparative Analysis

In our website which is named as"BAUET Alumni" is the updated form of before.Comperatively we have added some option which was not in the website .Mainly we have added

- Alumni Collaboration
- A newsfeed for Job circular and other useful post
- Every Alumni has personal profile
- Funding for our club
- Share Post on newsfeed

We also upadated some option.like-

- Log In
- Register
- Home Page
- Gallery

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Scope of Our System

- We can Collaborate here
- We can collect Fund for different club
- We can post Job Circular
- We can know our Alumni's Recent Position on their field

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Features

- User's Registration and authentication
- User Profile
- Events and Collaboration
- News and Updates
- Job and Internship Circular
- Donation and Founding
- Alumni Directory
- Future Expansion and Scalability

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Challenges

- Data Management
- User Authentication and Security
- Scalability and Performance
- User Experience
- Integration with Existing Systems
- Data Privacy and Compliance
- Maintenance and Support
- Budget and Resource Constraints
- Adoption and User Engagement

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Project Planning

Gantt Chart

Task Name	January-February	March-April	May-June	July-August	September-October	November-December
Requirements Gathering						
System Design						
Database Design						
UI/UX Design						
Frontend Development						
Backend Development						
Integration & Testing						
User Acceptance Testing						
Deployment						
Documentation						
Final Review						
Project Closure						

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Requirement specification

Hardware Requirements

System: Intel corei7 ,Ryzen7
Hard Disk: 1TB
Monitor: 15.6'
Mouse: A4TECH

Software Requirements

Database: MySQL
Xampp
Operating System: Windows10
Tools: HTML
CSS
Java Script
Php

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Design Specification

Design specification refers to a detailed document that outlines the requirements, features, constraints, and other specifications that a product, system, or project must meet. It serves as a comprehensive guide for designers, engineers, and stakeholders involved in the development process.

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Use Case Diagram

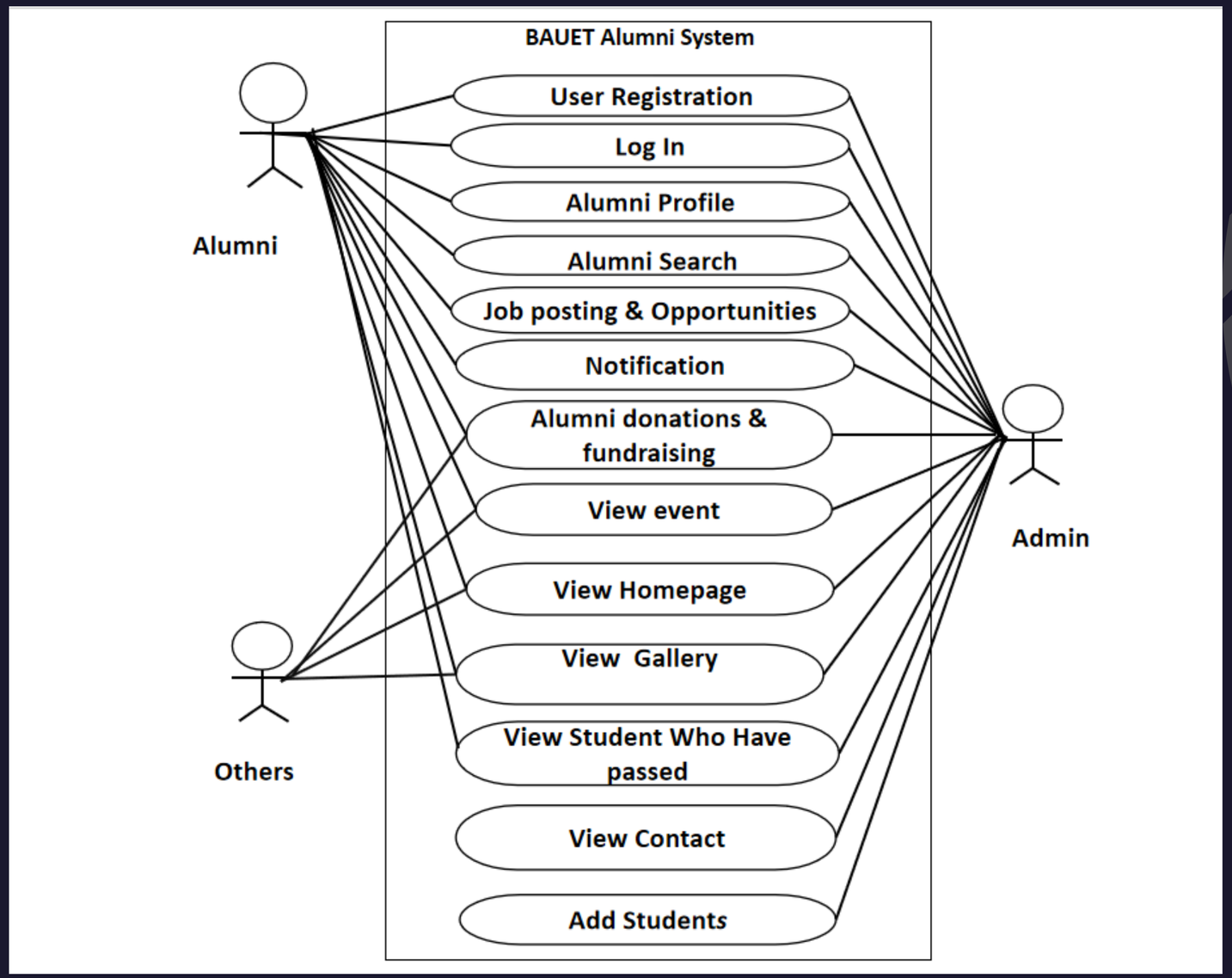

Fig-1: Use case Diagram

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

UML Diagram

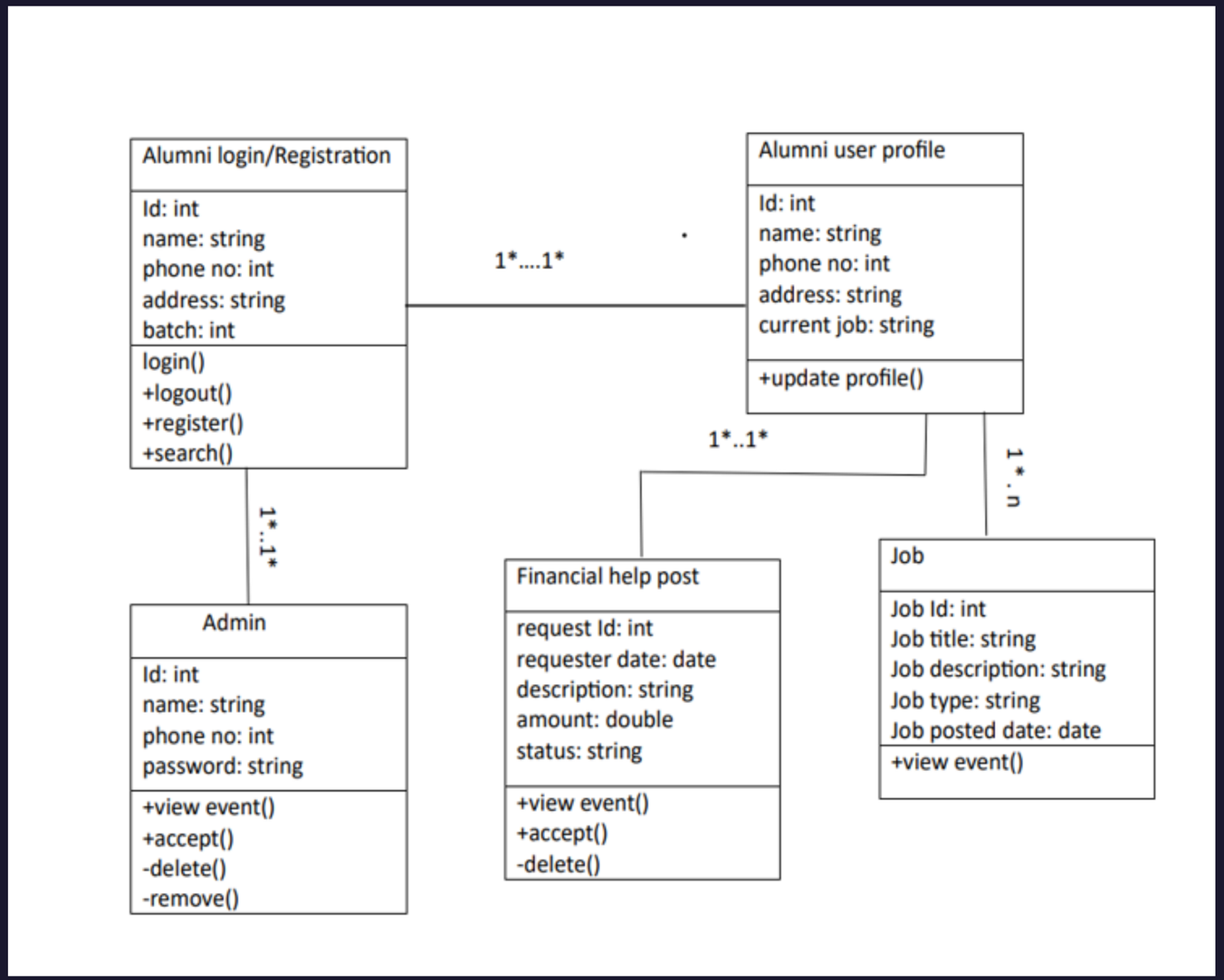

Fig-2: UML Diagram

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Data Flow Diagram

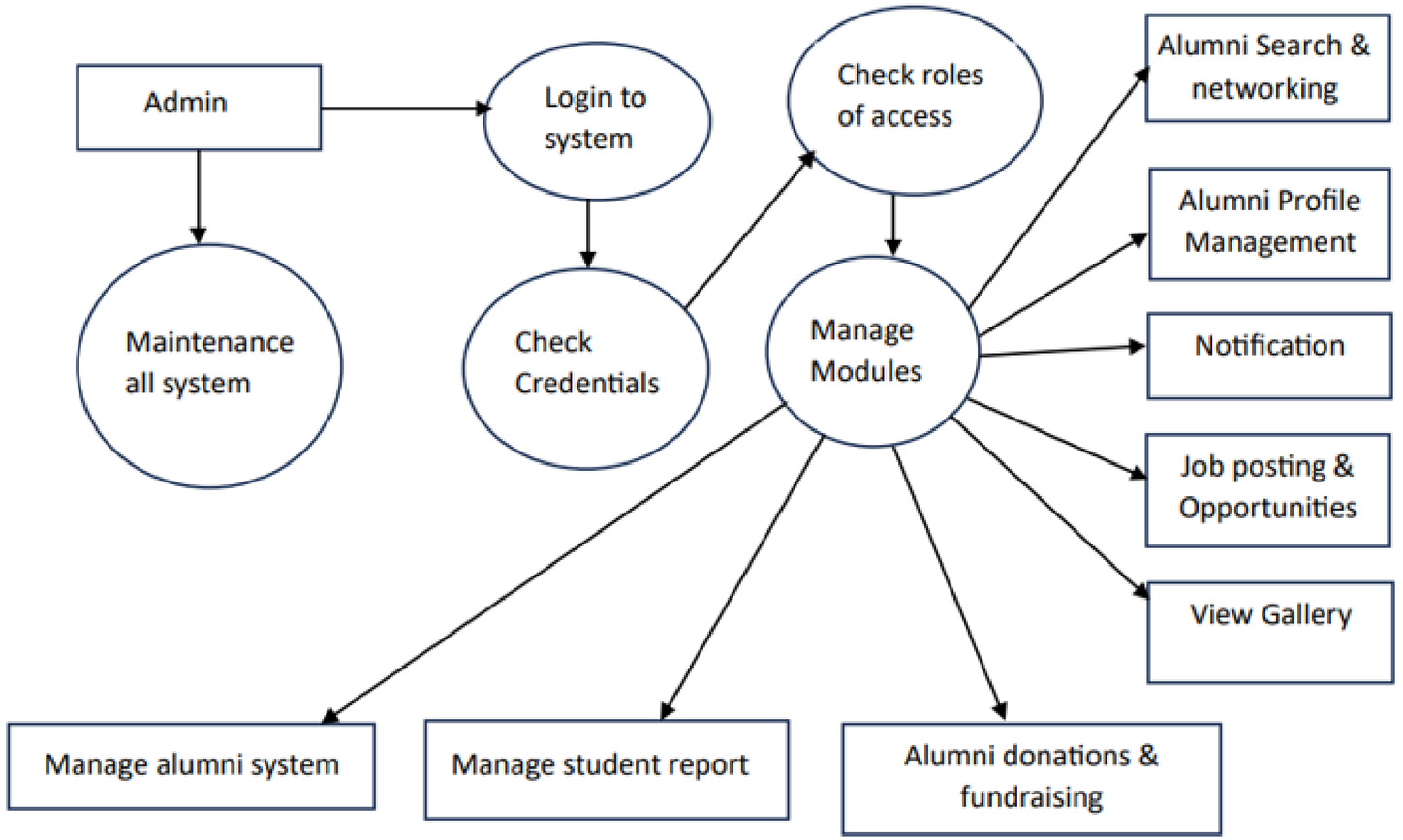

Fig-3: Data Flow Diagram

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Prototype Model

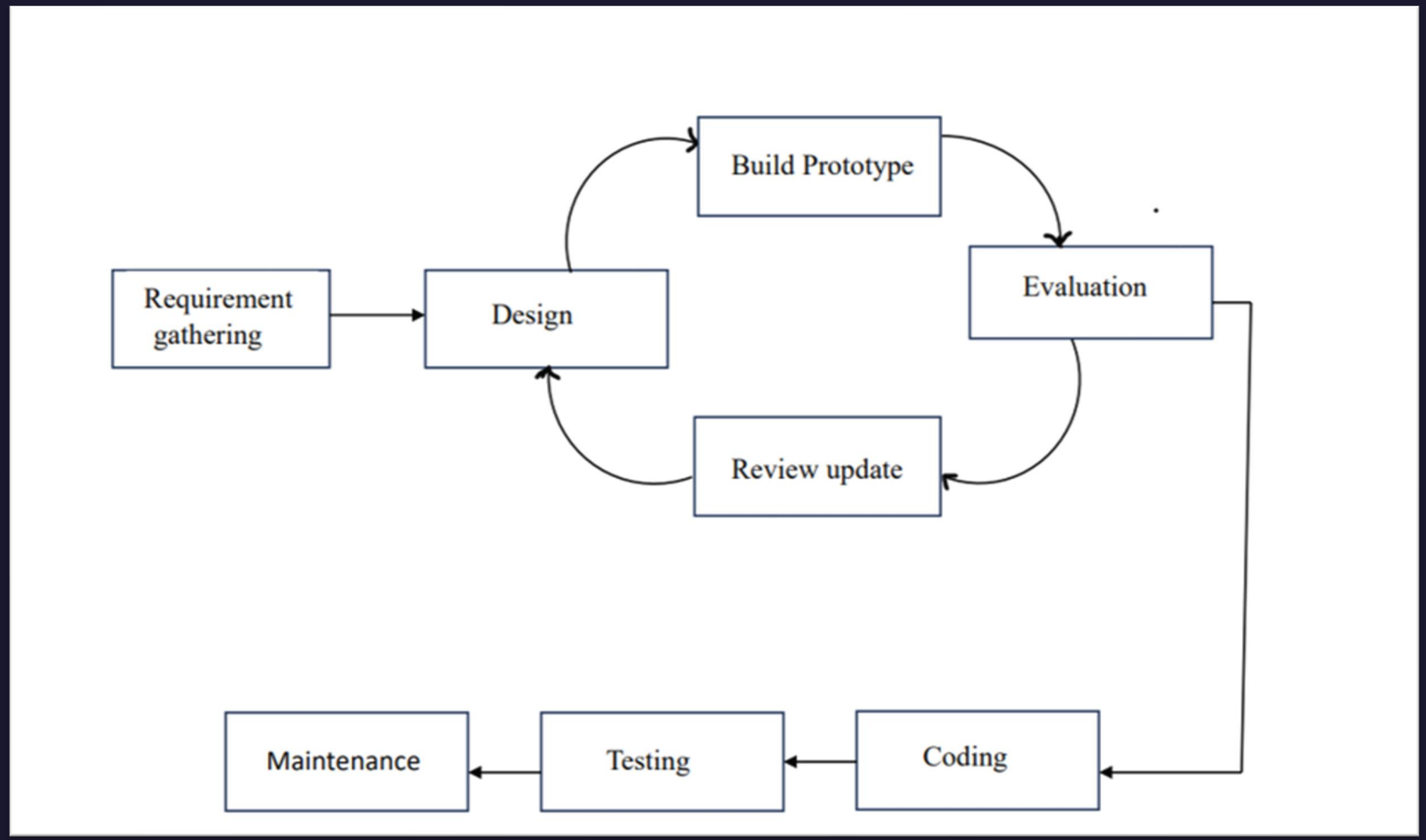

Fig-4: Prototype Model

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Front-end

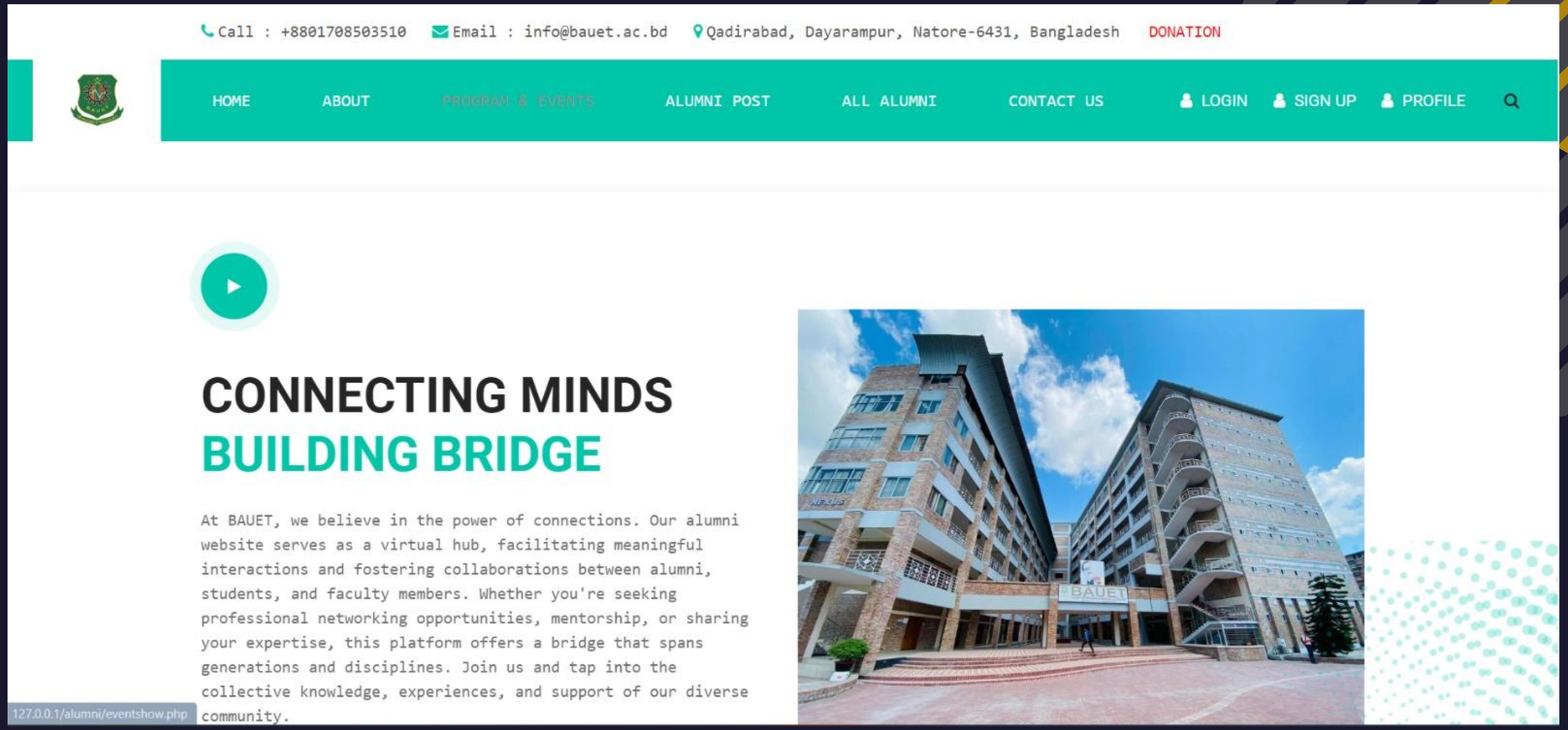

Fig-5: Home page

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Back-end

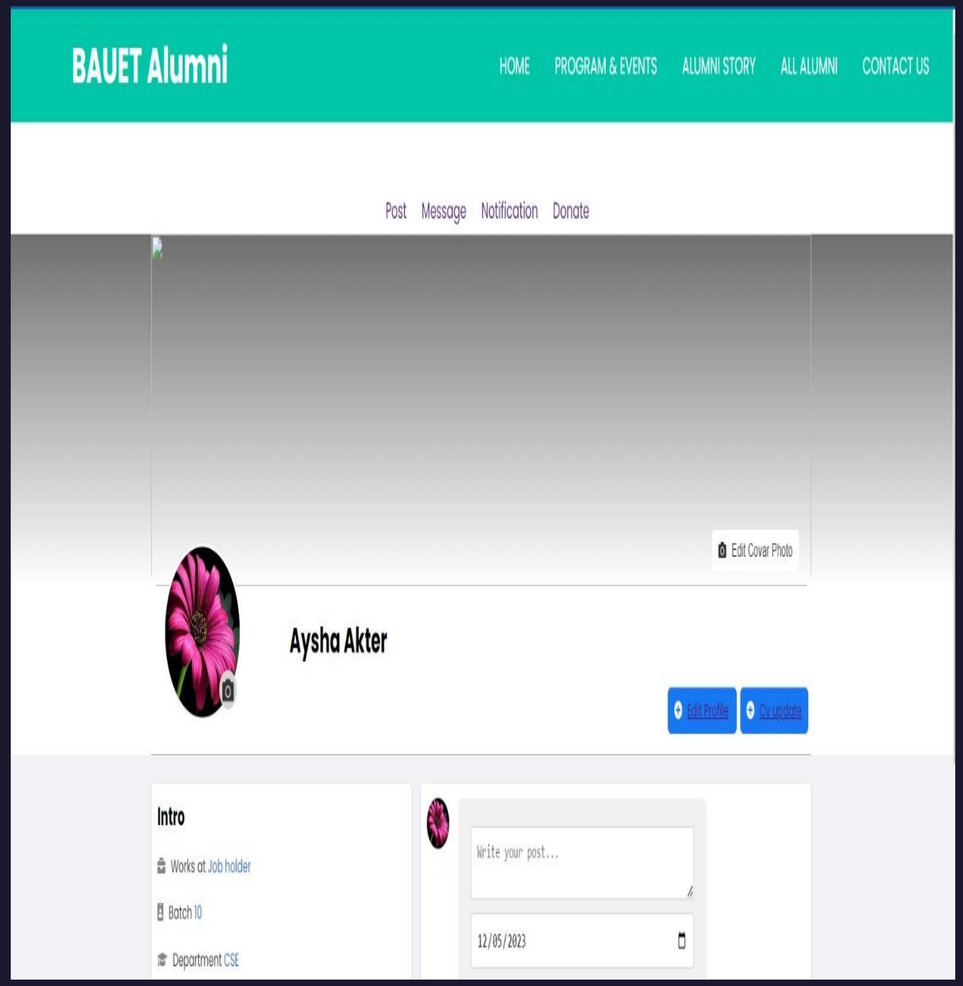

Fig-6: Alumni Profile page

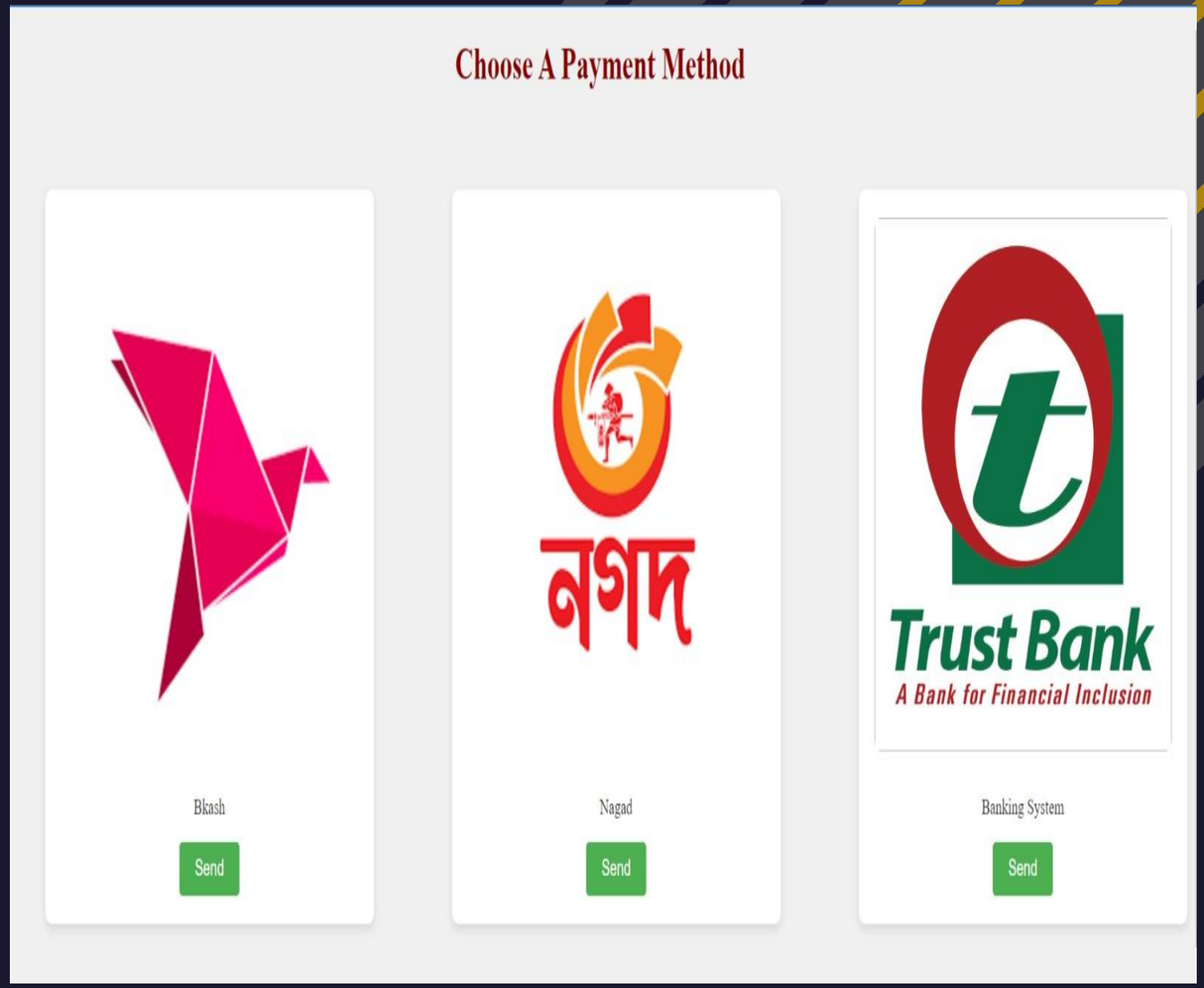

Fig-7: Donation Payment Method

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Budgeting

SL No	Equipment/ Category	Estimated Cost (TK)
1	Web-based application Expenses(3Laptop)	250000/=
2	Mobile App Expenses (3)	100000/=
3	Domain and hosting Expenses	25000/=
4	Employee Expenses	30000/=
5	Marketing and Promotion	20000/=
6	Documentation	15000/=
7	Testing and QA	20000/=
8	Legal and Compliance	12000/=
9	Training	10000/=
	Total Cost	482000/=

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Cost Benefit Analysis

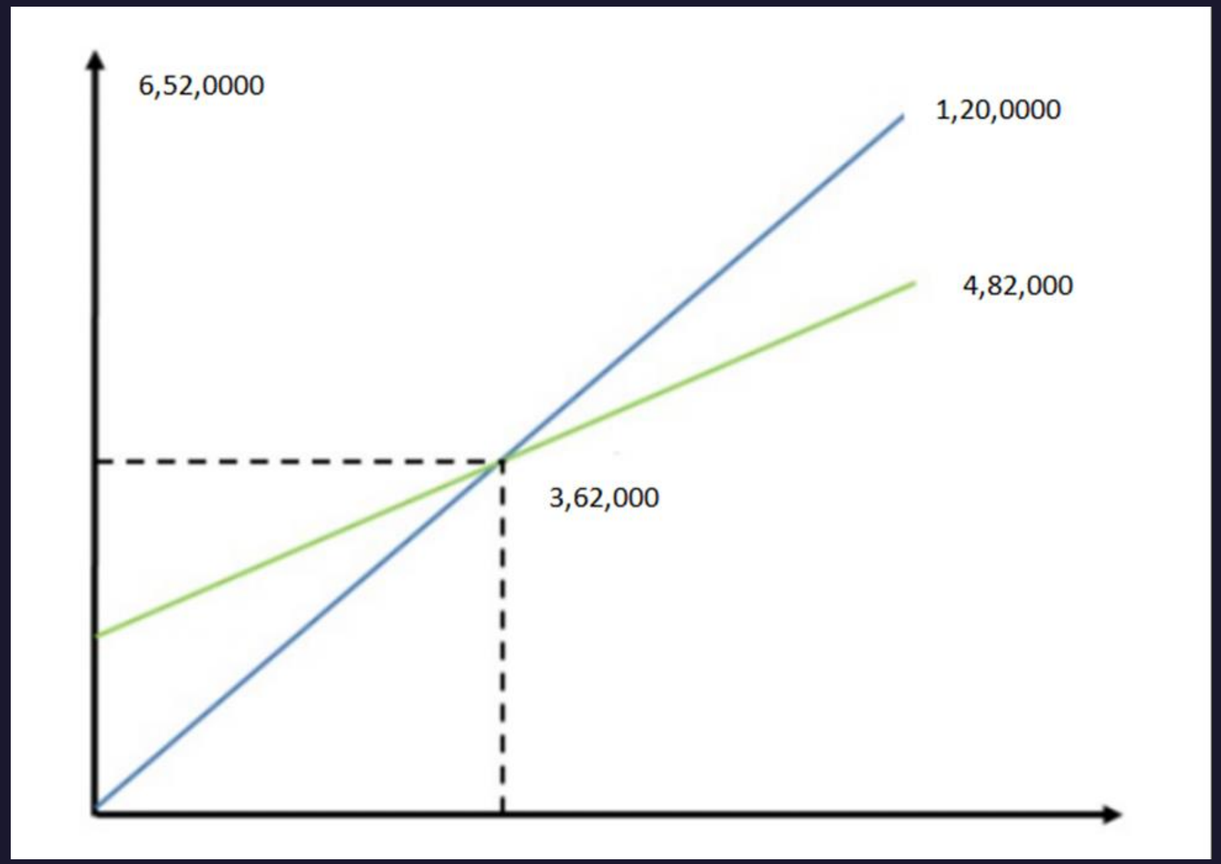

Fig-8: Cost Benefit Analysis

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Impact On Society

- Paperless Operations
- Energy Efficiency
- Virtual Meetings and Events
- Analytics for Resource Optimization
- Alumni Engagement Campaigns
- Collaboration with Sustainable Partners
- Continuous Improvement and Feedback

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Future Work

In future we will update our project according to the time's requirement.And we also think about some item which are-

- Enhanced User Experience
- Alumni Mentoring Program
- Advanced Networking Features
- Career Development Resources
- Alumni Recognition Program

Shortest Job First (SJF) is an algorithm in which the process having the smallest execution time is chosen for the next execution. This scheduling method can be preemptive or non-preemptive

Conclusion

The BAUET Alumni System represents a significant achievement in enhancing alumni engagement and strengthening the ties between Bangladesh Army University of Engineering & Technology (BAUET) and its graduates. Through this system, a dynamic and connected community of alumni has been established, fostering collaboration, knowledge exchange, and lifelong relationships.

Any Question

THANK
YOU