



# **Daffodil** *International* **University**

## Department of Computer Science & Engineering

### Project Report

**Project Name:** DIU Question Bank

**Course Name:** Software Project IV

**Course Code:** CSE237

**Submitted To**

Ms. Lameya Islam

Lecturer

Department of CSE

Daffodil International University

**Submitted By**

Section: PC-B

Department: CSE

**Team Name:** DIU Question Bank

**Team Members:**

Name	ID
Shuvo Halder(Team Leader)	212-15-4145
Chinmay Sarker	212-15-4156
MD. Rafi A Hasan	212-15-4152
Sabera Ryhana Mayesha	212-15-4226
Shahanur Islam Bishal	212-15-4196

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**Introduction:**

We are proposing the development and implementation of a DIU Question Bank, an online platform that will serve as a centralized repository of questions for students. The DIU Question Bank aims to provide a convenient and comprehensive resource to enhance teaching, learning, and practices within the organization.

**Objective:**

To provide a centralized repository of previous semester questions for students to access easily.

To allow students to request and contribute questions to the database, thereby building a comprehensive resource for future students.

To improve student performance by providing a wider range of questions for them to practice.

**Motivation:**

The motivation behind the DIU Question Bank project is to address the following challenges faced by students and faculty members: **Fragmented Resources:** Currently, there is a lack of a centralized repository of questions across various subjects and disciplines. This leads to difficulty in finding previous semester questions for practices purposes. **Time Efficiency:** Students often spend a significant amount of time searching for previous semester questions. By providing a centralized question bank, we can save valuable time and effort. **Enhanced Learning:** Access to a wide range of questions will enable students to practice and test their knowledge effectively, ultimately leading to improved learning outcomes.

## **Procedure:**

The proposed procedure for implementing the DIU Question Bank project involves the following steps:

**Requirements Gathering:** Engage stakeholders, including faculty members and students, to identify their needs and preferences for the question bank platform.

## **Platform Development:**

Design and develop the DIU Question Bank platform, ensuring it meets the identified requirements and incorporates user-friendly features.

**Content Curation:** Collaborate with subject matter experts to curate and upload questions from various subjects and disciplines into the question bank.

**Quality Assurance:** Implement a rigorous quality assurance process to review and validate the accuracy, relevance, and clarity of the questions available in the question bank.

**User Testing and Feedback:** Conduct user testing sessions to gather feedback from students and faculty members, allowing for iterative improvements and enhancements to the platform.

**Launch and Training:** Roll out the DIU Question Bank platform to users, providing comprehensive training and support materials to ensure successful adoption and utilization.

**Maintenance and Upgrades:** Continuously monitor and maintain the platform, addressing any technical issues, updating question content, and incorporating user feedback to improve the overall user experience. By following this procedure.

**Requirements:** The DIU Question Bank project will encompass the following key requirements:

**User-Friendly Interface:** The platform should have an intuitive and user friendly interface, allowing easy navigation and efficient access to questions and related resources.

**Security and Privacy:** The DIU Question Bank must adhere to strict security and privacy standards to ensure the confidentiality of user information and question content.

**Question Management:** The platform should support the storage, organization, and categorization of questions based on subjects, topics, difficulty levels, and question types.

**Search and Filtering Capabilities:** Users should be able to search and filter questions based on specific criteria.

**Customization:** The DIU Question Bank should allow users to create customized question sets based on their requirements and preferences.

### **Description of web page**

**Home Page:** This is the home page of our project. In this page user can login or signup to create account.

**SignUp:** The signup page user can easily create an account to login this website. The signup page is connected to the Database server to authenticate the user.

**Login:** In this page user can login redirect to the dashboard. The login page is connected to the Database server to authenticate the user, and if the information is wrong shows an error message “username or password is wrong”.

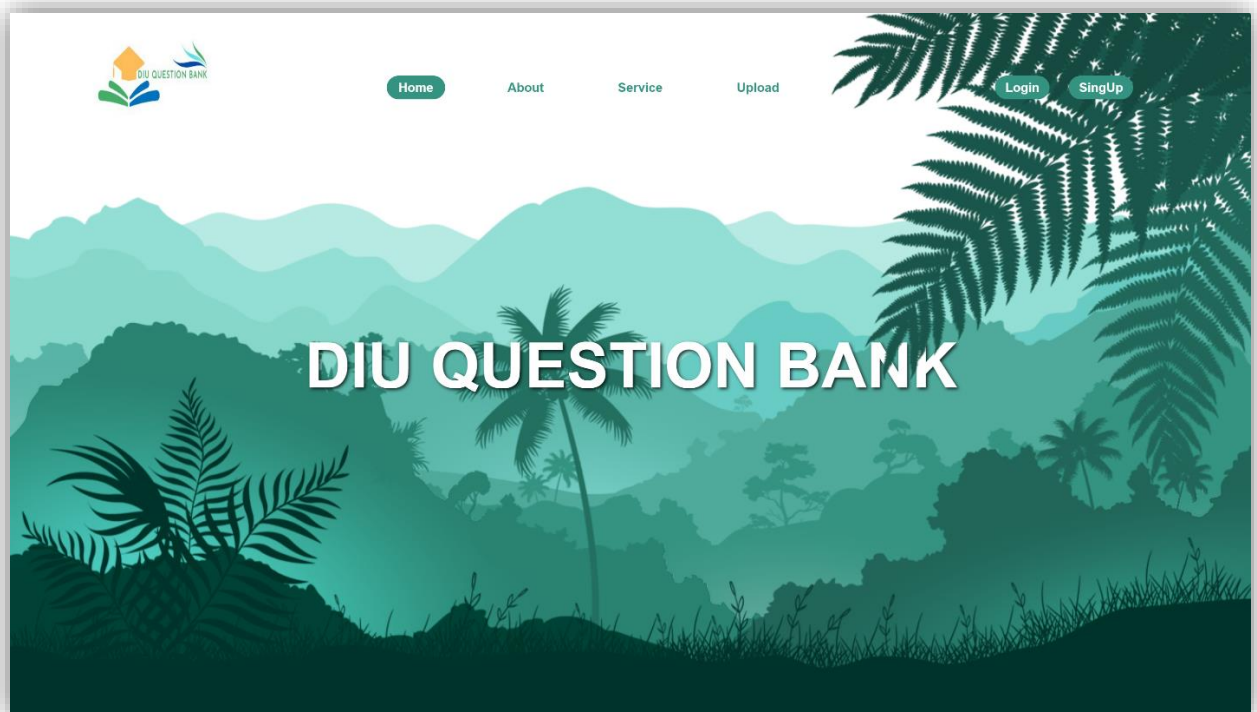
**Dashboard:** In the dashboard page user can upload question or find question to

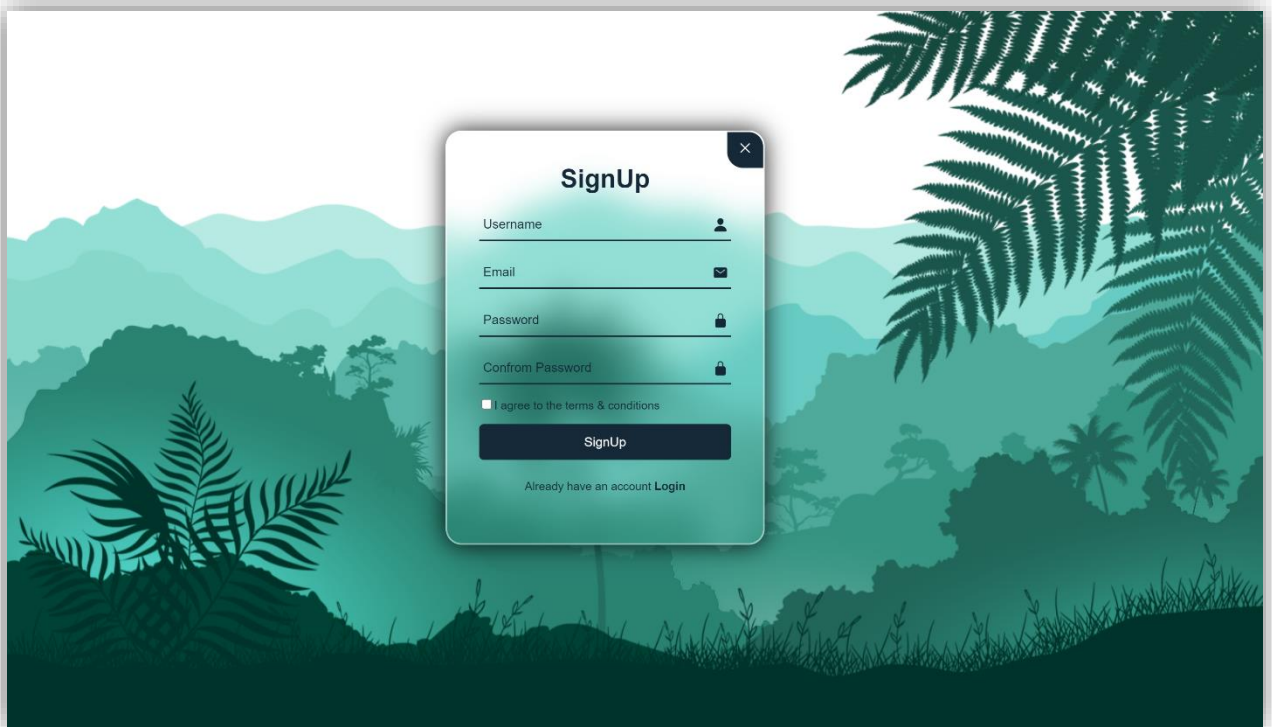
enhance their knowledge. Users can find easily previous semester question and save their valuable time.

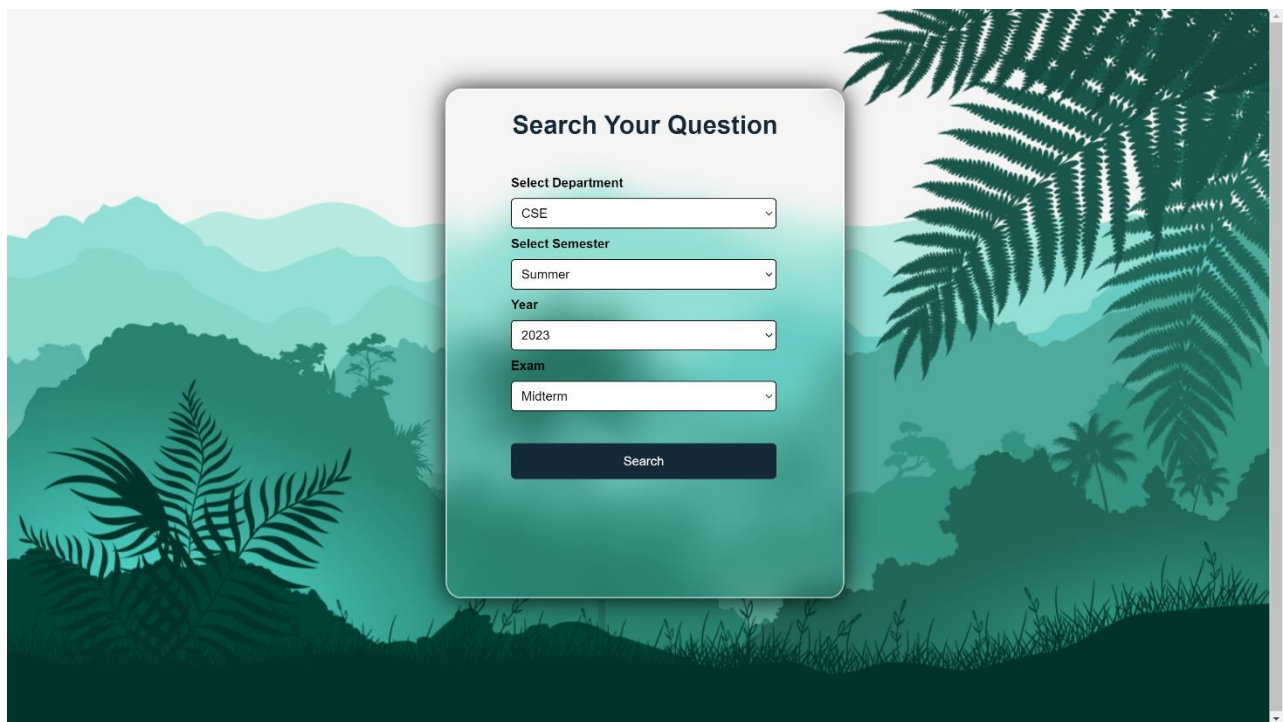
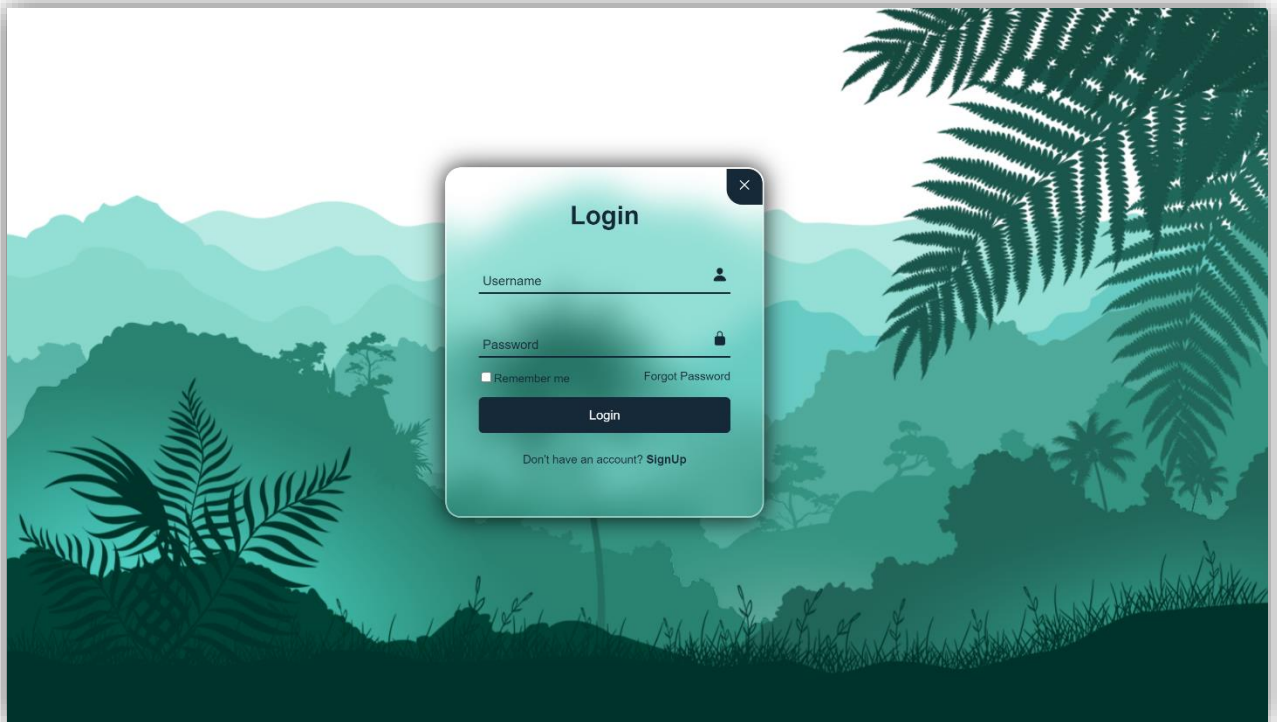
**Upload:** The upload page user can upload their question easily, just they can select “Department, Semester, Year, Exam” and upload their file. The upload file saves in the database.

**Search:** The search page user searches their question easily. When user search question database query executed and view the question file.

**Figure:**









### Upload Your Question

Select Department  
CSE

Select Semester  
Summer

Year  
2023

Exam  
Midterm

Select file  
Choose File No file chosen

Upload

## Database table:

SQL ▾

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id	department	semester	year	exam	uploaded_at	file
1	cse	spring	2021	2023	2023-06-04 08:03:08.073252	
2	eee	fall	2023	2022	2023-06-04 08:03:47.147553	
3	eee	fall	2022	2023	2023-06-04 08:05:14.253938	
4	eee	fall	2023	2023	2023-06-04 08:10:31.127514	
5	cse	fall	2022	2022	2023-06-04 08:11:46.475552	
6	cse	summer	2023	2023	2023-06-04 10:54:39.622459	
7	cse	summer	2023	2023	2023-06-04 10:55:41.963272	
8	cse	spring	2023	2022	2023-06-04 10:57:19.370435	
9	nfe	fall	2022	2023	2023-06-04 11:00:35.655952	
10	cse	summer	2023	final	2023-06-04 11:04:35.426063	
11	eee	spring	2023	final	2023-06-04 11:19:12.471093	
12	cse	summer	2023	midterm	2023-06-04 16:02:30.714942	
13	cse	summer	2023	midterm	2023-06-04 16:14:54.809780	question_files/Assignment.pdf
14	cse	spring	2023	final	2023-06-04 17:12:48.682599	question_files/photo_2023-06-02_15-03-54.jpg
15	nfe	spring	2022	final	2023-06-04 18:27:27.236025	question_files/PSX_20200422_094042.jpg
16	eee	fall	2023	midterm	2023-06-05 07:23:40.175391	question_files/IMG_20190821_120908_973.jpg
17	cse	summer	2023	midterm	2023-06-06 19:46:34.607072	media/RIP.pdf

**Conclusion:** The question bank website is a valuable online resource for students and educators. It offers a vast collection of curated questions from various subjects and levels of difficulty, making it a convenient tool for exam preparation and knowledge enhancement. With its user-friendly interface and comprehensive search functionality, the website provides an efficient way to access and practice a wide range of educational content.

The question bank website offers a range of services to enhance the learning experience. It provides access to a vast database of pre-made questions, allowing users to practice and test their knowledge. Additionally, it offers features such as customizable quizzes, performance tracking, and question recommendations based on individual learning needs.

Github: [shuvo-sir \(Shuvo Halder\) · GitHub](#)

