

A PLATFORM OF PROJECT SUPERVISION CONNECTED WITH STUDENTS

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This Report Presented in Partial Fulfillment of the Requirements for the
Degree of Bachelor of Science in Computer Science and Engineering

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APPROVAL

This Project “**A platform of project supervision connected with students**”, submitted by Umme Shifa Sultana, ID No: 152-15-5527 and Rabeya Sultana Ripa, ID No: 152-15-5672 to the Department of Computer Science and Engineering, Daffodil International University has been accepted as satisfactory for the partial fulfillment of the requirements for the degree of B.Sc. in Computer Science and Engineering and approved as to its style and contents. The presentation has been held on 03/05/2019.

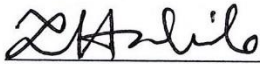
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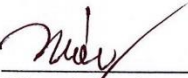


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We hereby declare that, this project has been done by us under the supervision of **Ms. Nazmun Nessa Moon, Assistant Professor, Department of CSE** Daffodil International University. We also declare that neither this project nor any part of this project has been submitted elsewhere for award of any degree or diploma.

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Finally, we must acknowledge with due respect the constant support and patients of our parents.

ABSTRACT

In computer science and engineering, project is the proper way to presenting knowledge and skill. Student have to submit a standard project in final year and it is known as final year project. Student also can choose internship, thesis. Final year project process starts from title defense and ends with final defense. And also have to complete follow up with project supervisor. Thesis paper preparing time period is same as project. A large number of students have not clear idea about final year project, steps and procedure of final year project, thesis paper preparing process. A platform in needed for student which will connect them with supervisor and helps to know procedure which have to follow for final year project or thesis. As their solution, we have made a website where student and teacher or supervisor both can connect with each other. A student can know about supervisor's platform from project report. The main purpose of our project is to present all final year project and thesis in a place by their category so that student can find out their solution easily and supervisor can observe project in their supervision. There are two type visitor option in project, supervisor or teacher and student. teacher will approve project idea after title defense. Student can know about project, thesis and can submit project, thesis paper and supervisor can observe project, thesis and able to help student. While student see the project report, they can know about supervisor and co-supervisor of mentioned project. Student also can search supervisor's research area.

TABLE OF CONTENTS

CONTENTS	PAGE
Board of examiners	i
Declaration	ii
Acknowledgements	iii
Abstract	iv
Table of contents	v
List of figures	vii
 CHAPTER	
 CHAPTER 1: INTRODUCTION	 1-2
 1.1 Introduction	 1
1.2 Motivation	1
1.3 Objectives	1
1.4 Expected Outcome	2
1.5 Report Layout	2
 CHAPTER 2: BACKGROUND	 3-4
 2.1 Introduction	 3
2.2 Related Work	3
2.3 Comparative Studies	3
2.4 Scope of the problem	4
2.5 Challenges	4

CHAPTER 3: REQUIREMENT SPECIFICATION	5-9
3.1 Requirement Collection and Analysis	5
3.2 Use Case Modeling	5
3.3 Activity Diagram	7
CHAPTER 4: DESIGN SPECIFICATION	10-17
4.1 Front-end Design	10
4.2 Back-end Design	13
CHAPTER 5: IMPLEMENTATION AND TESTING	18-19
5.1 Implementation of Database	18
5.2 Implementation of Front-end Design	18
5.3 Implementation of Interactions	18
5.4 Testing Implementation	19
CHAPTER 6: CONCLUSION AND FUTURE SCOPE	20
6.1 Discussion and Conclusion	20
6.2 Scope for Further Developments	20
REFERENCES	21

LIST OF FIGURES

FIGURES	PAGE NO
Figure 3.1: Use Case Diagram of the system	6
Figure 3.2: Activity Diagram of Teacher	7
Figure 3.3: Activity Diagram of Student	8
Figure 3.4: Activity Diagram of User	9
Figure 4.1: Home Page of the System	10
Figure 4.2: Student Registration	11
Figure 4.3: Student Registration	12
Figure 4.4: Teacher/Supervisor Sign in	12
Figure 4.5: Student Sign in	13
Figure 4.6: Upcoming Events	13
Figure 4.7: MySQL database of student registration	14
Figure 4.8: MySQL database of general user	15
Figure 4.9: MySQL database of teacher info	16
Figure 4.10: MySQL database of project info	17

CHAPTER 1

INTRODUCTION

1.1 Introduction

Final year project is essential part of BSC in IT, CSE, SWE student. The project reflects about knowledge, skill of a student which they gained in Bachelor of Science course. Student have to submit a standard project and it takes six credit. Final year project is totally different from course projects. Other project can be completed without specific supervisor but final year project need experienced supervisor. The impact of this project will affect entire career. This project named “A platform of project supervision connected with students” will help to know about pattern of project, topic of project, name of experienced supervisor of specific topic, time of making project. From here, everyone can easily see submitted projects. IT will helpful for both student and supervisor. Supervisor can observe every step or project with the help of our project. Our project is web-based project. It is possible for everyone to use web applications, so we have projected on this platform.

1.2 Motivation

We have faced problem to select our project topic and project idea. It motivated us to solve this kind of problem. Some of us have a little knowledge about supervisor’s platform for project or thesis and most of the student know nothing about final year project details. Some student were interested in the thesis but did not know how to do thesis correctly. We were ignorant about previous project which were submitted as final year project. We realized that, it is possible to solve our problem with us. In a word, we are our motivation.

1.3 Objectives

Main purpose of our project is

- To show students previous project and thesis.
- To show about teacher’s research area for project and thesis
- To submitting project and thesis to supervisor.
- To gather idea about final year project and thesis.

- To make an easy platform for teachers to guide students directly.

1.4 Expected Outcome

The main outcome of our project are

- Get complete site where student can connect with project.
- Student can know about supervisor's research area.
- Supervisor can observe about update of all project or thesis in his/her supervision.

1.5 Report Layout

In chapter 1, we have described introduction of my project, motivation, objectives, expected outcome.

In chapter 2, we have described my system full overview, related work, comparative studies, challenges of my project and scope of my project.

In the chapter 3, we have described about different types of model and diagram like use case diagram, activity diagram, requirement collection and analysis.

In the chapter 4, we have described about my project front-end design, back-end design.

In the chapter 5, we have described about implementation of database, implementation of front-end design, testing implementation.

In the chapter 6, we have described is Conclusion and Future Scope. We discuss Future Scopes of this system.

CHAPTER 2

BACKGROUND

2.1 Introduction

Students are required to submit course-based projects per semester. Final year project is difference from those projects because they get 1 year time for completing project. Our project stands for student so that they can utilize their time properly with the help of supervisor. For proper utilization of time, they have to know about project and supervisor's platform. Thesis is a new topic for student. Because, they don't have to do thesis in previous courses. All supervisor do not do project or thesis supervision on all topic. Each teacher or supervisor specialized in certain matters. They supervise projects based on their experience. Student and supervisor can get connected with each other with the help of "A platform of project supervision connected with students" project. Using student site, student can see previous project, know about supervisor's platform, update project step by step. On the other hand, supervisor or teacher can approve project from after title defense and can observe step by step.

2.2 Related Works

Google site has a little similarity with our project [1]. But it is not a complete project and thesis displaying site. Our project "A platform of project supervision connected with students" is more enriched from google site.

2.3 Comparative Studies

Google site is a place where project file, project presentation, thesis paper, presentation can be submitted. Only student who done this project and their selected supervisor can see all those. Other student can't see project in google site. On the other hand, "A platform of project supervision connected with students" is open for everyone. After registration, anyone can see any project and thesis. They also can search by category. In google site, student can submit their project, any

approval is not necessary for submission. In our project, supervisor have to approve project idea after title defense and then student have to submit full project and thesis step by step.

2.4 Scope of the Problem

In project follow up, student shows their work update to supervisor. Sometimes, student complete his/her task in a wrong way but they don't meet with supervisor without follow up. When they meet with their work progress, then they could know about their mistakes. If student can show their work progress after short period of time, they can aware about their mistake and also can save valuable time. In our project, student can update their work any time and supervisor can observe work update and can give proper direction without waste of time. Online based system save time and can access any time. Student can submit work update even at midnight.

2.5 Challenges

The previous method is not so much about maintaining the free flow of information about the project. On the other hand, the selection of supervisor is a bit difficult process. The selection of project topic, procedure is important part of final year project but student face problem during selection. This application is more helpful then traditional way. To make this project, we have to know clearly about previous project, find out related project, learn MYSQL database, JavaScript, HTML, CSS. Know about proper submitting procedure of project was little difficult thing among all.

CHAPTER 3

REQUIREMENT SPECIFICATION

3.1 Requirement Collection and Analysis

Generally, admin developer creates a default admin information and admin made other user registration form with access validation. In this application, teacher or supervisor and student are user. Every teacher will approve project or thesis in their supervision. So, there's no need for admin here. Teacher can access dataset in her/his supervision. Student can access only personal information and submitted works. Here, every user must be login in first this system.

3.2 Use Case Modeling

Use case diagram represents user's interaction with the system and shows relation of user and different use cases of system [2]. In a word, it is the blur print of a system [3]. Given diagram in figure 3.1 represents our system. 3 actors in system, student and user are same type actor. There are actors outside the system boundary and process inside the system boundary. Round shape represents process. The student who submit the project will have to log in after verifying password. It is an include relation. Then have to update profile, request for update profile, give details information, finally submit project. Teacher can approve project or thesis details, then can approve complete project. It is an extend relation. Other user can see complete project.

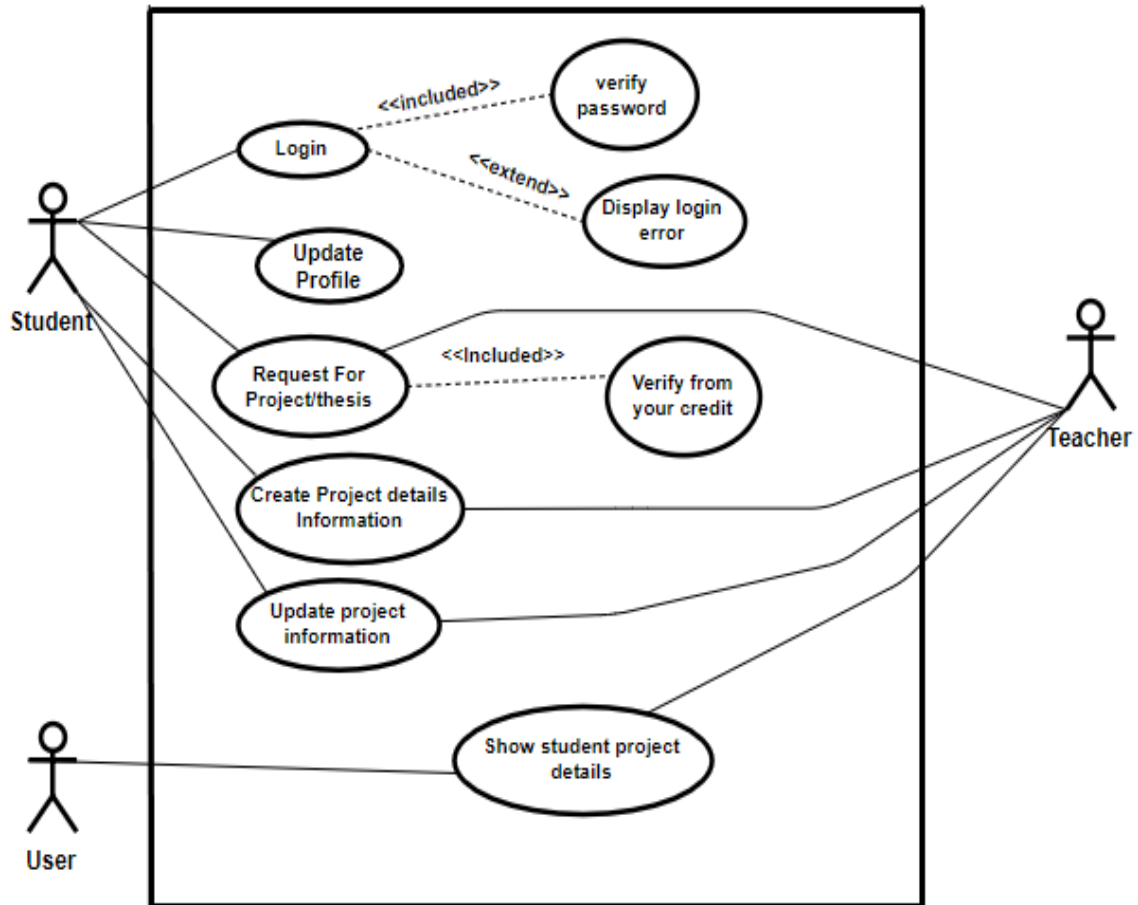


Figure 3.1: Use Case Diagram of the system

3.3 Activity Diagram

Graphical representation of workflow of stepwise activities and actions are called activity diagram. It shows primarily control overflow [4]. Here, arrow works from the start towards the end. It represents order which activity happens [5]. Figure 3.2 shows activity or work flow of teacher in the system. Project approval, follow up are teacher's activity in our system.

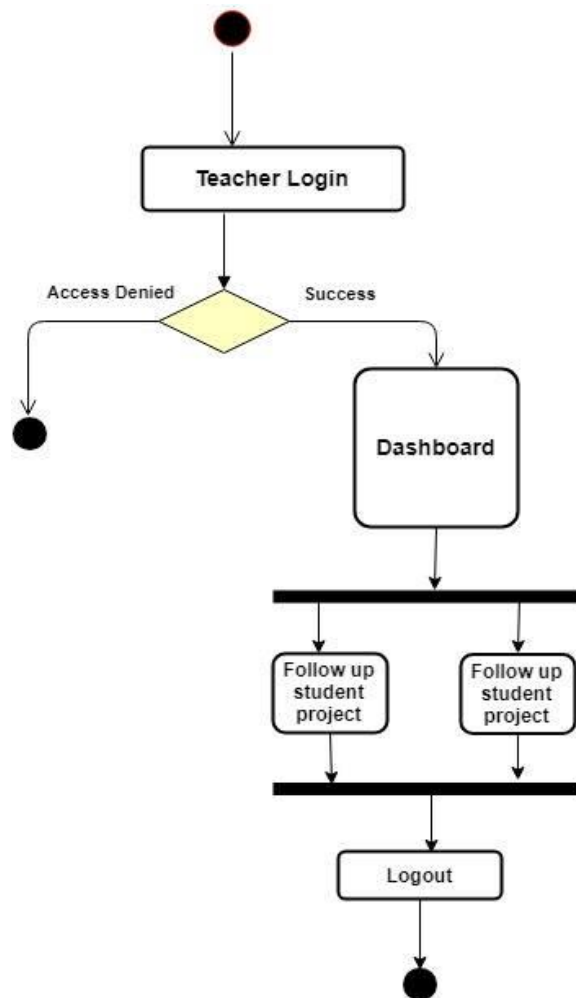


Figure 3.2: Activity diagram of Teacher

Figure 3.3 is activity diagram of a student who will submit project, it represents student activity in the system. Student will log in then update profile, request for project, will update project details.

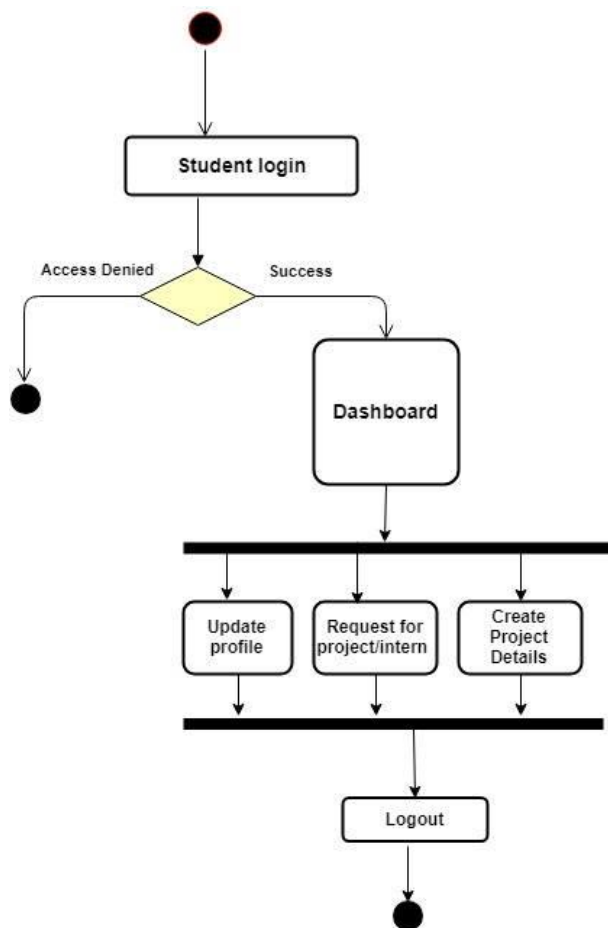


Figure 3.3: Activity diagram of Student

The figure 3.4 represents activity of general user. User will login, then can see complete project.

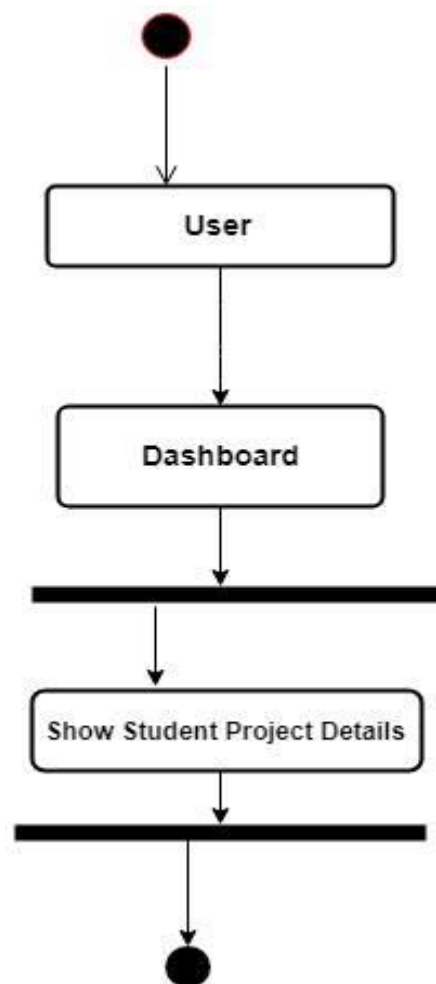


Figure 3.4: Activity diagram of User

CHAPTER 4

DESIGN SPECIFICATION

4.1 Front-end Design

Front end shows everything which is related with what user see, design. using HTML, CSS front-end were designed.

Some of screenshots are given below that explain the whole process of the project.

Figure 4.1 is our project main homepage details information in this place. User can search by project name or category wise. Project Applicable student sign in, old student log in and teacher log in information is in this page.

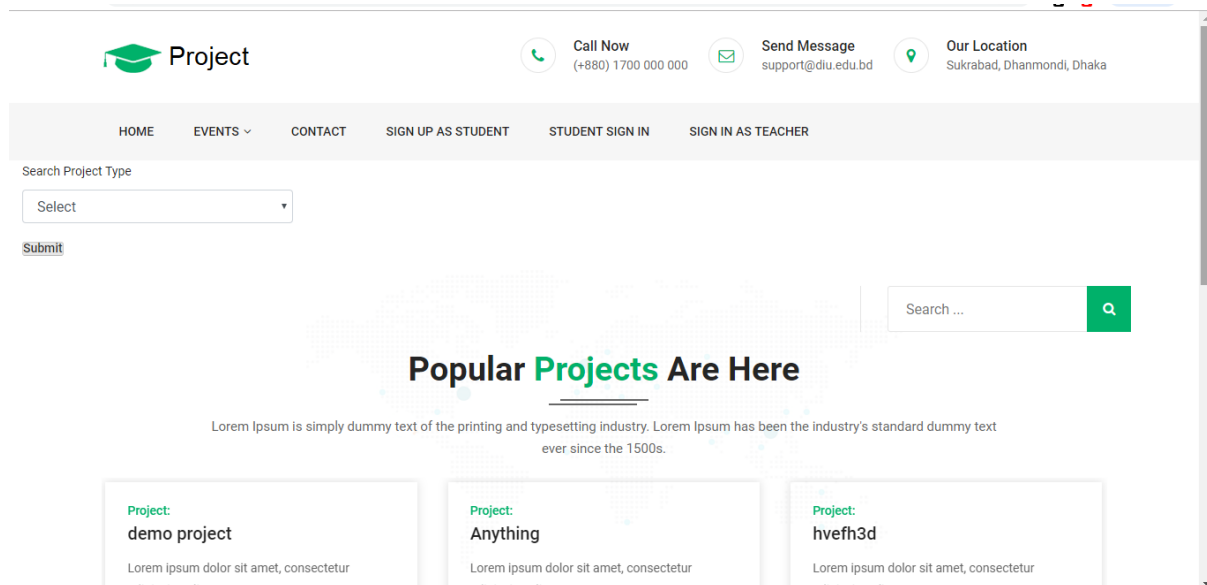


Figure 4.1: Home page of the System

Figure 4.2 is new student application from in this screenshot. Student must fill up all the mandatory category. They have to give name, user ID, email address, department.

Project

Call Now
(+880) 1800 000 000

Send Message
support@diu.edu.bd

Our Location
Sukrabad, Dhanmondi, Dhaka

Student Registration

Before you miss the chance to get your seat!

Enter Your name
Name

Enter Your User ID
user ID

Enter Your Email
email

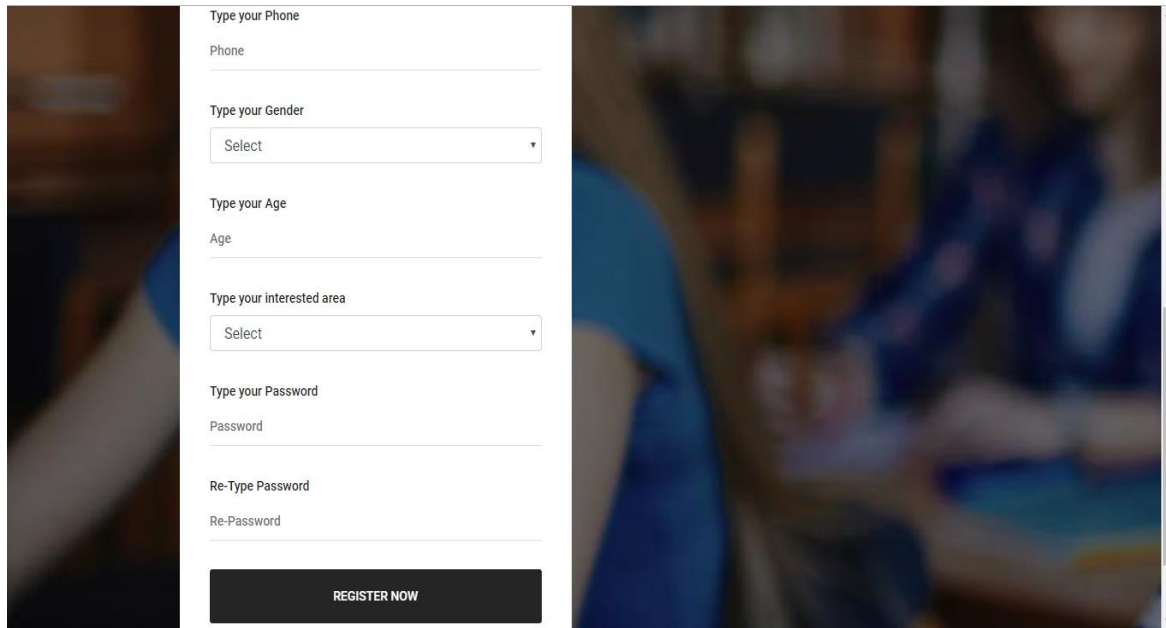
Type your Department

We Have More Than 3+ Student With Online Join!

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s

Figure 4.2: Student Registration

Figure 4.3 is also student registration page. Phone number, password is required. Gender and interested area can be select from here. After filling all this information, student registration will complete.



Type your Phone

Phone

Type your Gender

Select

Type your Age

Age

Type your interested area

Select

Type your Password

Password

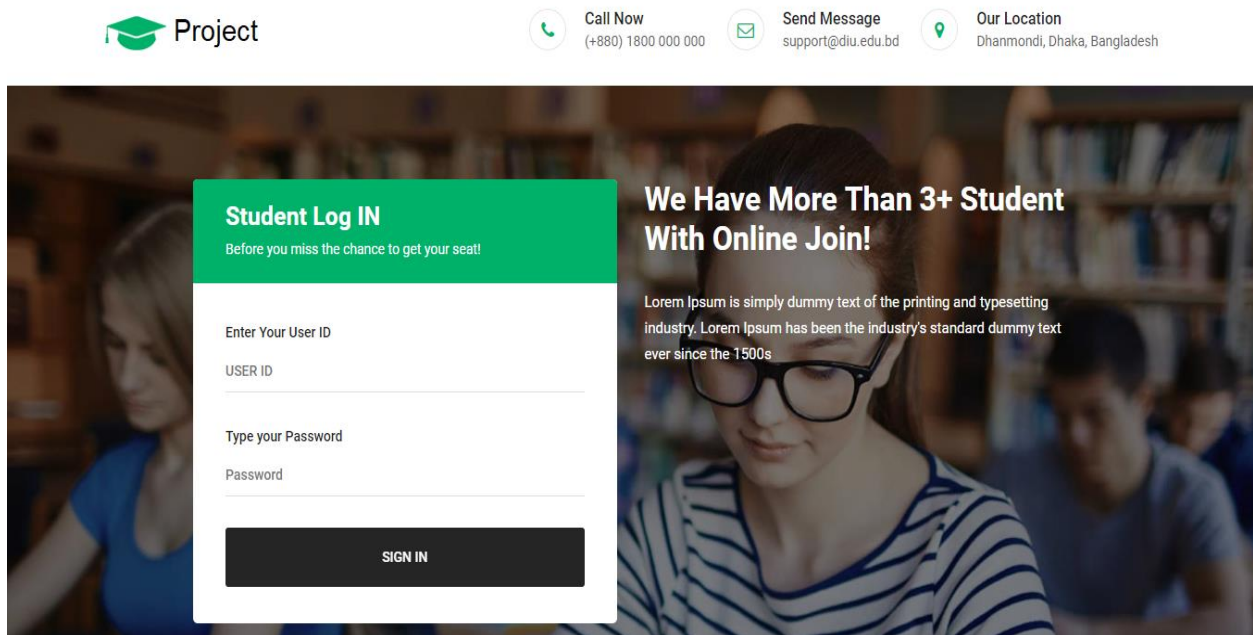
Re-Type Password

Re-Password

REGISTER NOW

Figure 4.3: Student Registration 2

Figure 4.4 shows student log in page. After registration, a student can log in. without registration, student is not allowed for further process.



 Project

 Call Now
(+880) 1800 000 000

 Send Message
support@diu.edu.bd

 Our Location
Dhanmondi, Dhaka, Bangladesh

Student Log IN
Before you miss the chance to get your seat!

Enter Your User ID

USER ID

Type your Password

Password

SIGN IN

We Have More Than 3+ Student With Online Join!

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s

Figure 4.4: Student Sign in

Figure 4.5 is respective supervisor log in panel. Just input their id and password to entry our teacher panel.

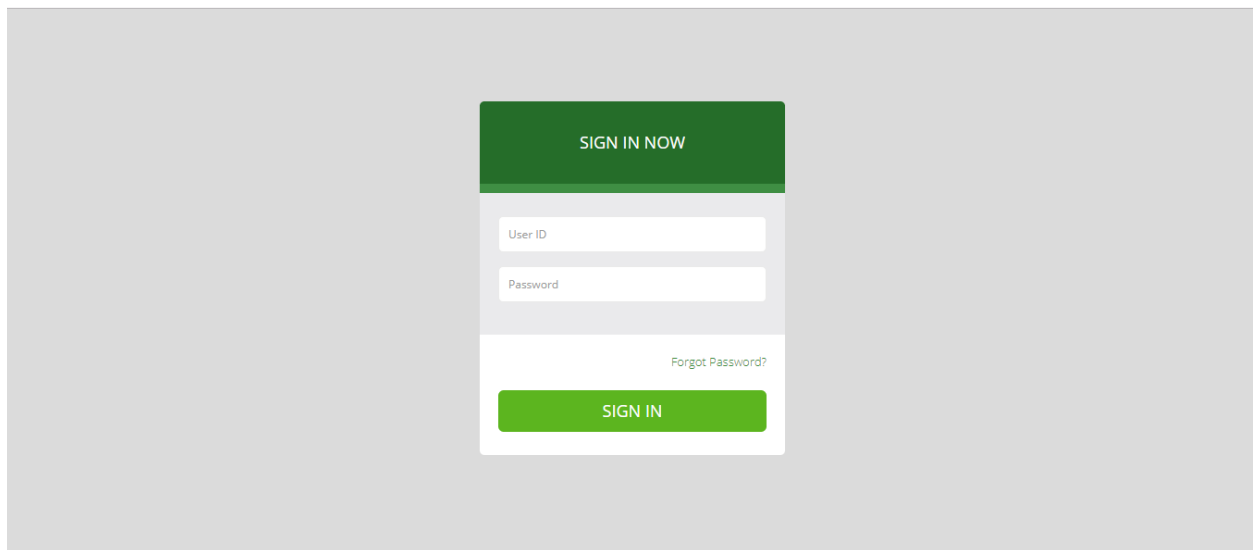
A login panel for teachers/supervisors. It features a green header with the text "SIGN IN NOW". Below this is a white box containing two input fields: "User ID" and "Password". A link "Forgot Password?" is positioned to the right of the password field. At the bottom of the white box is a green button labeled "SIGN IN".

Figure 4.5: Teacher/Supervisor Sign in

Figure 4.6 is in our university any event in today show this page. Event details information show here. Any visitor can see this page.

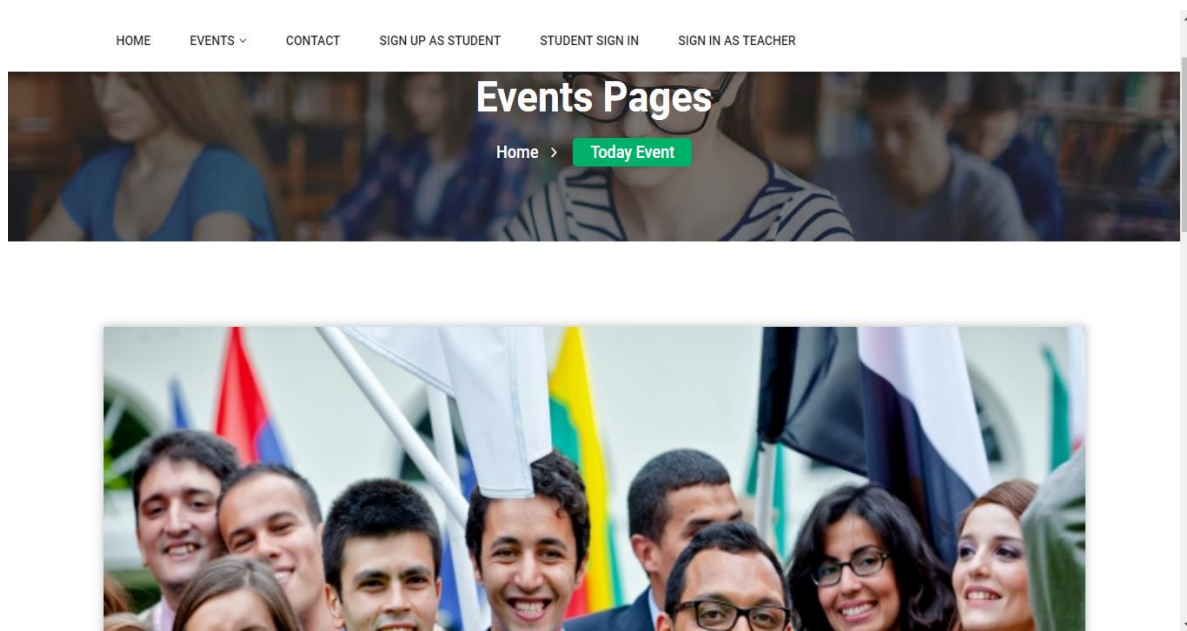


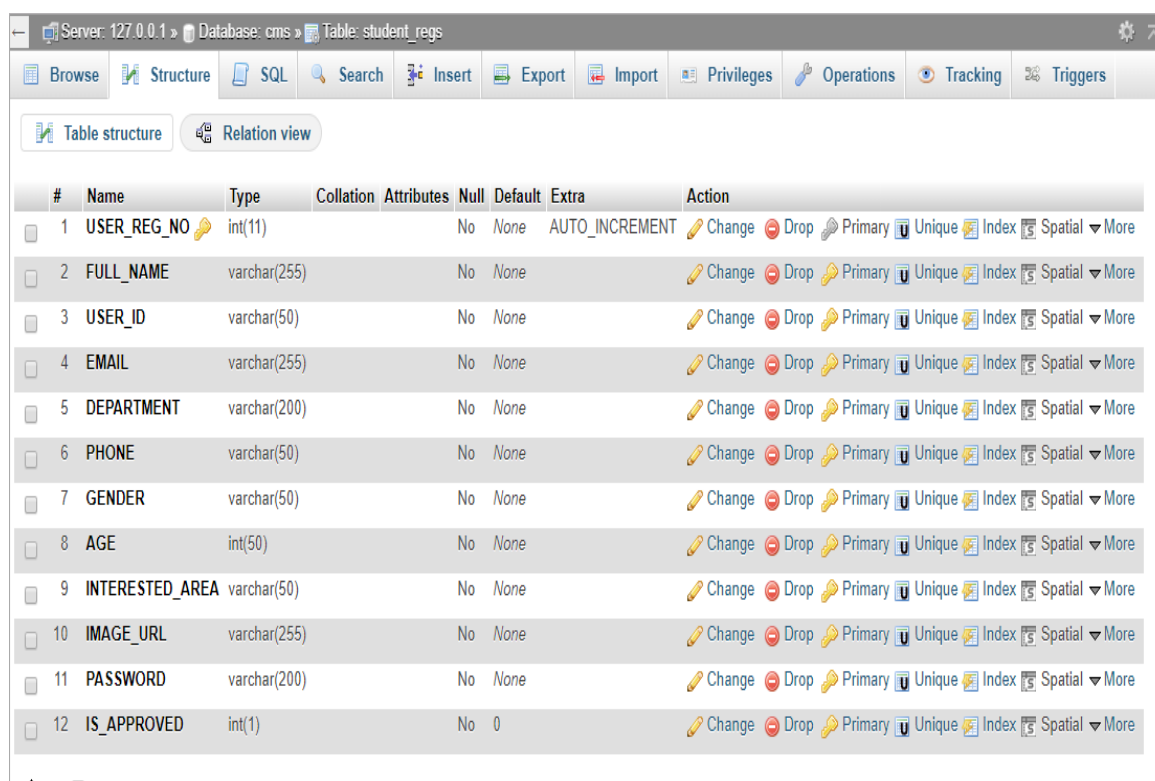
Figure 4.6: Upcoming Events

4.2 Back-end Design

Back-end design is how the site works, updates and change of site [6]. It refers that thing which user can't see in the browser during working. For example, database. Database stores user profile, uploaded image in back-end design. MySQL database is user to store information. PHP programming language also used for back-end.

Some of screenshots are given below that explain the backend process of the project.

Following figure 4.7 is about successfully registered student database. Student details information in here. Students name, email, department, phone no, gender, age, interested area, password is store here.

The image is a screenshot of a MySQL database management interface showing the structure of a table named 'student_regs'. The interface includes a top navigation bar with tabs like 'Browse', 'Structure', 'SQL', 'Search', 'Insert', 'Export', 'Import', 'Privileges', 'Operations', 'Tracking', and 'Triggers'. Below the navigation bar, there are two buttons: 'Table structure' (selected) and 'Relation view'. The main area displays a table with 12 columns: #, Name, Type, Collation, Attributes, Null, Default, Extra, and Action. The rows represent the fields of the 'student_regs' table, including 'USER_REG_NO', 'FULL_NAME', 'USER_ID', 'EMAIL', 'DEPARTMENT', 'PHONE', 'GENDER', 'AGE', 'INTERESTED_AREA', 'IMAGE_URL', 'PASSWORD', and 'IS_APPROVED'. Each row has a set of icons for actions like 'Change', 'Drop', 'Primary', 'Unique', 'Index', 'Spatial', and 'More'.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	USER_REG_NO	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	FULL_NAME	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
3	USER_ID	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
4	EMAIL	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
5	DEPARTMENT	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
6	PHONE	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
7	GENDER	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
8	AGE	int(50)			No	None		Change Drop Primary Unique Index Spatial More
9	INTERESTED_AREA	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
10	IMAGE_URL	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
11	PASSWORD	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
12	IS_APPROVED	int(1)			No	0		Change Drop Primary Unique Index Spatial More

Figure 4.7: MySQL database of student registration

Figure 4.8 is about successfully registered general student database. Student details information in here. They complete registration only for see project details. They don't submit project to teacher. It also stores their name, password.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	USER_NO	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	USER_REG_NO	int(11)			No	None		Change Drop Primary Unique Index Spatial More
3	USER_EMAIL	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
4	USER_CONTACT	varchar(25)			No	None		Change Drop Primary Unique Index Spatial More
5	USER_ID	varchar(55)			No	None		Change Drop Primary Unique Index Spatial More
6	PASSWORD	varchar(55)			No	None		Change Drop Primary Unique Index Spatial More
7	FULL_NAME	varchar(255)			No	None		Change Drop Primary Unique Index Spatial More
8	USER_TYPE_NO	int(11)			No	1		Change Drop Primary Unique Index Spatial More
9	IS_ACTIVE	int(1)			No	1		Change Drop Primary Unique Index Spatial More
10	ACTIVE_FROM	datetime			No	None		Change Drop Primary Unique Index Spatial More
11	ACTIVE_TO	datetime			No	None		Change Drop Primary Unique Index Spatial More

Figure 4.8: MySQL database of general user

Following figure 4.9 is about supervisor or teacher details information in this database table. Their id, name, contact number, email and others important information in this table.

Server: 127.0.0.1 » Database: cms » Table: teacher_regs

Table structure Relation view

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	TEACHER_REG_NO	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index More
2	FULL_NAME	varchar(255)			No	None		Change Drop Primary Unique Index More
3	EMAIL	varchar(255)			No	None		Change Drop Primary Unique Index More
4	CONTACT	varchar(25)			No	None		Change Drop Primary Unique Index More
5	TEACHER_ID	varchar(55)			No	None		Change Drop Primary Unique Index More
6	PASSWORD	varchar(55)			No	None		Change Drop Primary Unique Index More
7	GROUP_NO	int(11)			No	None		Change Drop Primary Unique Index More
8	ROOM_NO	int(11)			No	None		Change Drop Primary Unique Index More
9	GENDER	varchar(50)			No	None		Change Drop Primary Unique Index More
10	IMAGE_URL	varchar(255)			No	None		Change Drop Primary Unique Index More
11	IS_APPROVED	int(1)			No	0		Change Drop Primary Unique Index More
12	CREATED_BY	int(11)			No	None		Change Drop Primary Unique Index More
13	CREATED_ON	datetime			No	None		Change Drop Primary Unique Index More
14	IS_DELETED	int(1)			No	0		Change Drop Primary Unique Index More
15	DELETED_BY	int(11)			No	None		Change Drop Primary Unique Index More
16	DELETED_ON	datetime			No	None		Change Drop Primary Unique Index More

=cms&table=teacher_regs&token=59121cdece4e91cf7a2df5aab579d3f3

Figure 4.9: MySQL database of teacher info

Figure 4.10 is about database store teacher approve project details like project id, members name, super visor name, project details etc. complete and incomplete both information is here.

#	Name	Type	Collation	Attributes	Null	Default	Extra	Action
1	PROJECT_NO	int(11)			No	None	AUTO_INCREMENT	Change Drop Primary Unique Index Spatial More
2	USER_ID	varchar(50)			No	None		Change Drop Primary Unique Index Spatial More
3	PROJECT_ID	int(50)			No	None		Change Drop Primary Unique Index Spatial More
4	GROUP_MEMBER	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
5	TEACHER_REG_NO	varchar(19)			No	None		Change Drop Primary Unique Index Spatial More
6	PROJECT_TITLE	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
7	PROJECT_TYPE	varchar(300)			No	None		Change Drop Primary Unique Index Spatial More
8	INTRODUCTION	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
9	MOTIVATION	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
10	OBJECTIVES	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
11	RELATED_WORK	varchar(200)			No	None		Change Drop Primary Unique Index Spatial More
12	file	varchar(100)			No	None		Change Drop Primary Unique Index Spatial More
13	type	varchar(10)			No	None		Change Drop Primary Unique Index Spatial More
14	size	int(11)			No	None		Change Drop Primary Unique Index Spatial More
15	time	time			No	None		Change Drop Primary Unique Index Spatial More
16	date	date			No	None		Change Drop Primary Unique Index Spatial More
17	is_approved	int(11)			No	0		Change Drop Primary Unique Index Spatial More

Figure 4.10: MySQL database of project info

CHAPTER 5

IMPLEMENTATION AND TESTING

5.1 Implementation of Database

The project has been completed to support the student's final year project or thesis and to communicate with the supervisor. Database has been used for connect all user. Database saves all registered user, project information, teacher or supervisors information. Since the web application requires an internet connection to use the application, the database and the internet have been connected to the best results. When a project is open to everyone, it will be saved through the database. For this purpose, we used MySQL database. It gives better performance.

5.2 Implementation of Front-end Design

UI of our project is very attractive and elegant and front page is simple. It takes short time to load & give the result so fast as fast as possible. UI is the most important part of a user to use this. UI designed as user friendly, user can easily understand the use of this method of design. Load time of page is most important, because if a user need 1 minute or 2 minutes to load a web page most of the time user ignore those type of web application. So, for avoid this problem we build it so simple. For simple application design, we used HTML, CSS, JavaScript.

5.3 Implementation of Interactions

The main user of this application are supervisor and student. We try our best to close to user and give them the best experience to our application. Without user help it's a useless project. Users email, name, password, phone no, department, gender, age is required to login. These sensitive information needs to be properly stored for user. We ensure that we protect their information and their information will not be distorted and don't give any public uses for any bad purpose. Why a user will use our application, because it is a clean UI, faster load time then another application. Day by day it will become an enrich project with the help of user. More student will be benefited by using our application. Not only as a developer can do this, every project will be successful to help of user, in a word help of each other. So be a user and they will be an important part of our project [7].

5.4 Testing implementation

Passwords are to be entered before log in. Wrong password gives error notification. When project or thesis searches are the based-on category, the results are accurate. Because, categories are given and user should select one. On the other hand, user can search by project name. while searching with correct name of project or thesis it gives correct result. While the similar name is searched, it shows correct name or it shows the project with nearby name. If the name contrasts, it do not show the correct result. While, searched name is not available, it shows nothing.

CHAPTER 6

CONCLUSION AND FUTURE SCOPE

6.1 Discussion and Conclusion

The application will help students overcome the ignorance and fear of the final year project. This is the easy-to-find medium to get any related information about the final year project and thesis. Hopefully this application allows students to get a clearer knowledge about thesis. Sometimes it is difficult to choose supervisor. This is due to lack of proper ideas about supervisor platform. This project can easily solve such issue. It will play a leading role in guiding young students to find the right path to the project and thesis. Its main goal is to make the whole subject easier by making a simple and straightforward talk of the student and project or thesis supervisor.

6.2 Scope for Further Developments

Future plans for this project are

- Include schedule of inter university project contest
- Include schedule of inter university programming event

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