Project Report
Software Project II, Fall'20

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CONTENT

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Project Title : DIU Student Support System.

Project Name : DIU Assist.

Project Type : Our project is a graphical user interface project. This is actually a project of Java FX and Java Swing. This project is basically a desktop application. Through this, the user will be able to create the software the way he wants, which means that this software will actually play an important role in saving time. In this project, a Daffodil student is going to work with everything he/she uses in his daily life, from the student portal to the BLC as well as from the account office and faculty site.

Abstract : We will make this software using user case diagram. The main purpose of this is that students have to go to many places many times. Here all their links of varsity will be combined and the user will be made dependent. There will be no login-logout. It is only by downloading and installing the software that they will be able to use this software. The main motive of this software is to save our time. But we can reduce the time complexity of this software. This is our software apps or the way you go here, you can go to the link from there. Someone can again generate their own personal gender.

Objective : Our main objective is to make our JAVA GUI application software user friendly. Because many people still have to work through links in many places. But those links are not close so there are many problems. That is why we are going to make a visual application. It will have all kinds of link information and some information offline so that it will help the students of the computer science department of the varsity to save them. Modern technology is brought in for modern solutions. We want to put everything together. So that it is being made by targeting the students so that they do not get into any problem.

Motivation : Motivation is really the reason why we want to work on this project. Among the projects that were on the project list, the reason for choosing this project, We all wanted our team all the time, we would work on real life projects. So that a specific population can use this application. We want to build a real life project with everything we have learned from our Software Programming II course.

Requirement Specification :

- This software is made with a use case diagram.
- Daffodil CSE student is going to work with everything he/she uses in his daily life.
- Login-logout by mail for students.
- It can use only by downloading and installing the software.
- This app must have a graphical user interface that's will make it more user-friendly.
- This is our software apps or the way you go here, you can go to the link from there.
- The main thing is of this software is to helps students have, sometimes they have to go to many places many times. Here all their links of the varsity will be combined in this app and the user will be made dependent.
- This app has Database for storing Students/Teachers Information.
- It has a MySQL Database operation for saving/remove information.
- Mainly focused on memory management for any low configure computer it can support.

Literature Review : In our project Literature Review includes whether any such application was created before us. Even before us, an app was created which is known as DI U Smart App in the Play Store. We are working in a very special way with time, so that in a very short time the user can move from one place to another as he needs. His time complexity should be reduced. He should be able to access everything on the bus without installing anything in a very short time.

DIU Assist

Features :

1. Log in

2. Home Page (Quick Assist) :
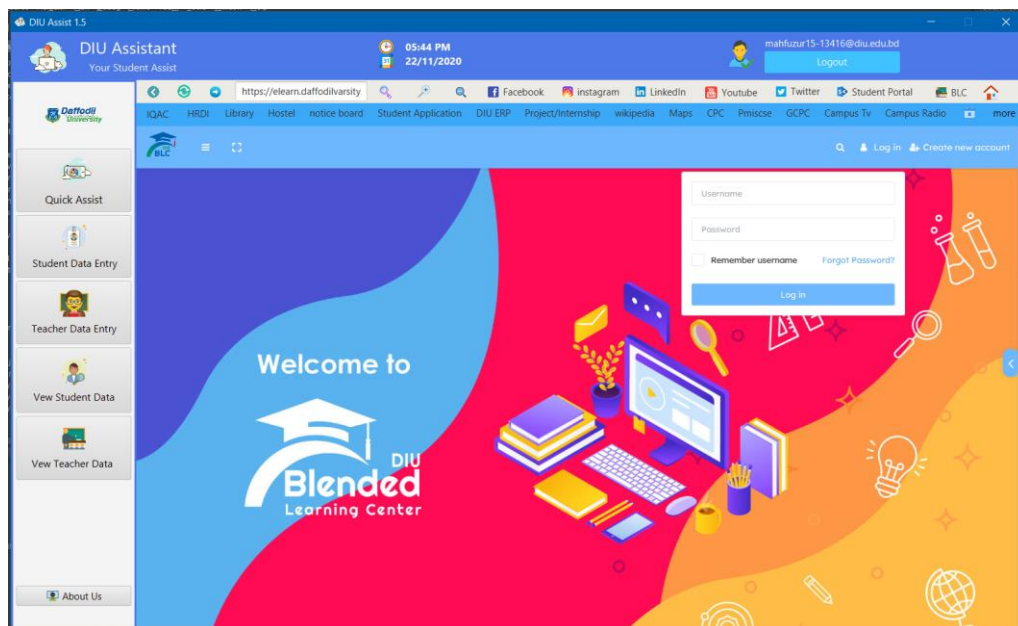
DIU Assist

Features :

3. Home Page (Add Students)

4. Home Page (Add Teachers) :

DIU Assist
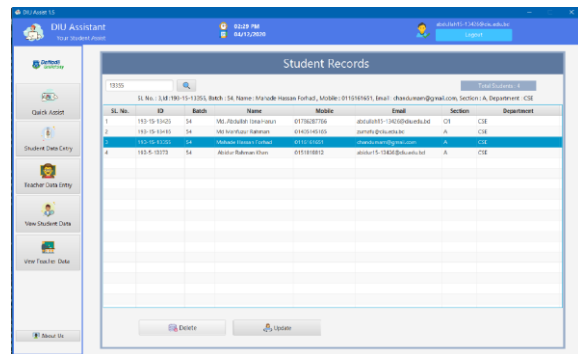
Features :

5. **Home Page (View ,Search ,delete and modify Students)**

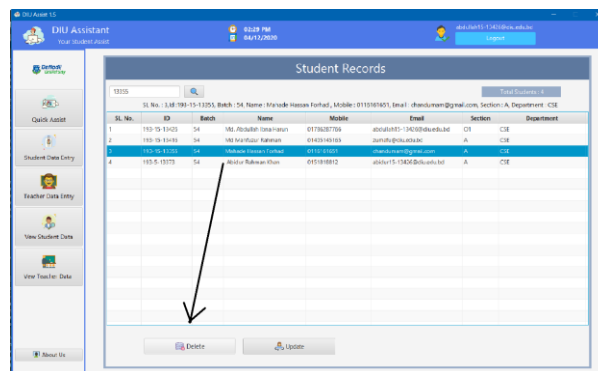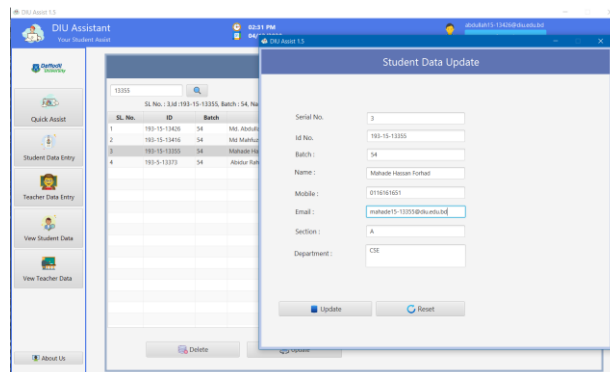**View :**   **Search :**
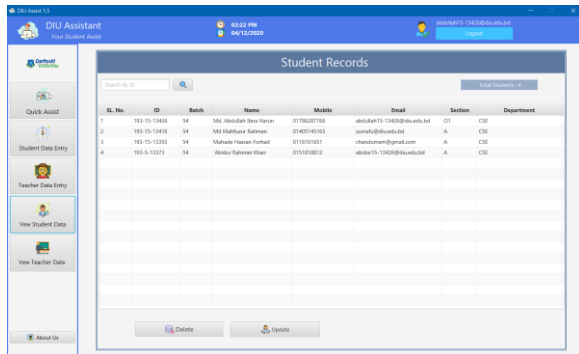
Select and Delete
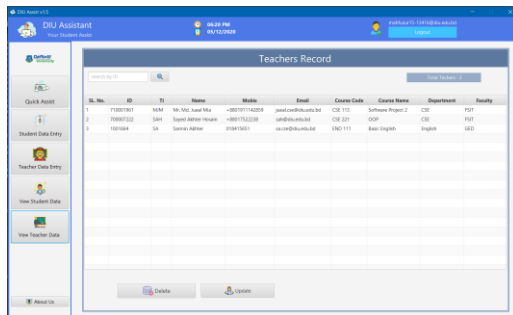
Modify

DIU Assist

Features :

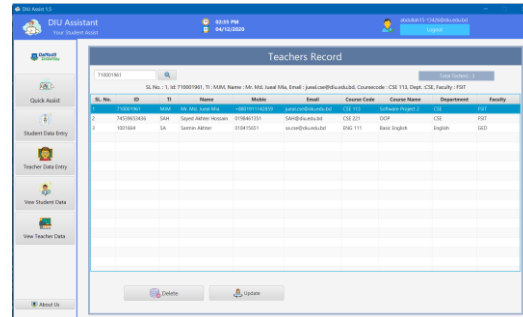## 6. Home Page (view, search delete and modify teachers) :

View :   **Search :**

Select and Delete

Modify :

DIU Assist

Features :

7.About us :
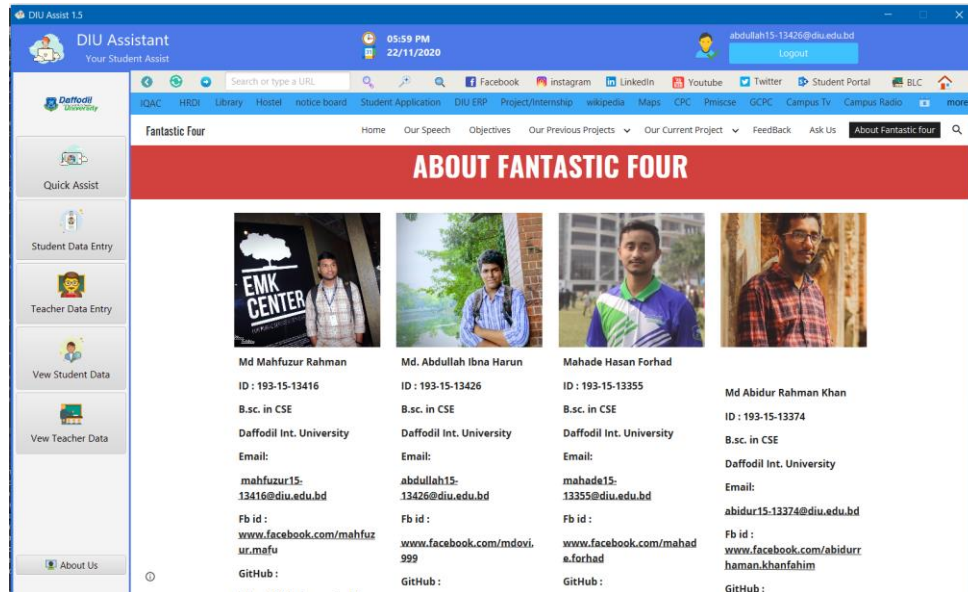
Testing:

For Testing Purpose open exe file and use

Login key : userid@diu.edu.bd

DIU Assist

Implement Software

IDE: Netbeans IDE for Java EE Developers

JDK version : 1.8

Download Link : https://www.oracle.com/technetwork/java/javase/downloads/jdk-netbeans-jsp-3413139-esa.html

Database Manager: XAMPP

Dbms Version : 7.4.12

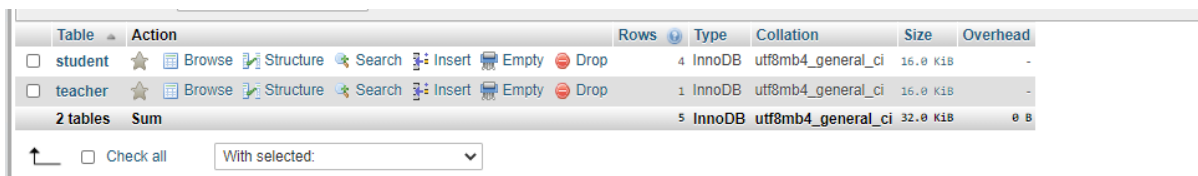Download Link : https://www.apachefriends.org/download.html

Database Connection:

After installing XAMPP, you need to log in to XAMPP and start its Apache and MySQL databases. Then by clicking on My SQL Admin we will get our desired database.

	Table ▲	Action							Rows ⓘ	Type	Collation	Size	Overhead
☐	student	⭐	📄 Browse	🔧 Structure	🔍 Search	⫶ Insert	🗑 Empty	⊘ Drop	4	InnoDB	utf8mb4_general_ci	16.0 KiB	-
☐	teacher	⭐	📄 Browse	🔧 Structure	🔍 Search	⫶ Insert	🗑 Empty	⊘ Drop	1	InnoDB	utf8mb4_general_ci	16.0 KiB	-
	2 tables	Sum							5	InnoDB	utf8mb4_general_ci	32.0 KiB	0 B

↰ ☐ Check all   With selected: ▼

student : Using this database you can add a student's information and delete the information.

teacher: Using this database you can add a teachers information and delete the information.

DIU Assist

Application Version with source :

STC Assist v1.7 :
https://drive.google.com/drive/folders/1Ig4tT1z124k0mR1cRk5PxBioq4oxdYIJ?usp=sharing

Git hub Repository : https://github.com/abdullah100998/DIU-Assist-v1.5

Future Update :

• Dynamic Search from Database

• Relational DBMS

• Routine and Event's management

• Move into Web and Android Application

DIU Assist

<u>Challenges Faced :</u>

- Faced error connecting into Database.
- Faced not getting any data from user input.
- Faced problem in insert, delete, view from database.
- Faced Some Little bugs.

Conclusion : This was a great experience doing this project. This project was intended to make the DIU system easier and reliable. I hope the intention of the program gets full filled.. The challenges we faced and the learning we have gone through will come in great help in the future.

~~Thank you for using our application~~