University of Asia Pacific

Department of Computer Science

Report: UAP Repeat Exam Registration & Application Generator

Submitted By:

- Arafat Bin Kashem
  Id: 16201066
- All Mamun
  Id: 16201071
- Mehedi Hassan
  Id: 16201073

Submitted To

- Tanmoy Sarkar Pias
  Lecturer, UAP

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1. Abstract

The goal of the project is to develop an automated repeat examination form generator for the University of Asia Pacific. The student can generate the form with a few clicks by providing some related information like the name, registration ID, and subject code. They don't even require print out the application to show it to their advisor. That is because, every time a student register and create the form, a notification will be sent to the advisor instantly.

2. Introduction

With the blessing of technology, things are now becoming easier and automated for the comfort and ease of the individuals. The Repeat examination application generator can serve great benefits to all the students who require applying for the repeat examination. Now they can apply for the exam from the comfort of their home with just a few clicks from their device.

3. Motivation

Every year, hundreds of student requires applying for repeat examination to seat in the backlog examination. They require writing an application the advisor on this purpose. Many students find the procedure a hassle as they have no prior idea about the application structure and which include including and which shouldn't. More so, the application requires a sign of the advisor. A lot of students fail to submit the application in time as they don't get the advisor sign just because the advisor is not always present in the varsity.

We are motivated to create this application generator program to make the procedure of applying for the repeat examination.

4. Features

Here the main features of the Repeat Examination Application Generator for University of Asia Pacific:

- Create and Generate Application Form
- Submit for the Advisor Approval
- Download and Print Application

5. Language Used

We used the below mentioned language for developing the project.

1) RAW HTML5

Hypertext Markup Language revision 5 (HTML5) is markup language for the structure and presentation of World Wide Web contents. HTML5 supports the traditional HTML and XHTML-style syntax and other new features in its markup, New APIs, XHTML and error handling.

We used HTML5 for the structure of the web pages.

2) CSS

Cascading Style Sheets is a style sheet language used for describing the presentation of a document written in a markup language like HTML. CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.

We used inline CSS in our project for a better outlook and user experience of the web project.

3) PHP

PHP is a recursive acronym for "PHP: Hypertext Preprocessor". PHP is a server side scripting language that is embedded in HTML. It is used to manage dynamic content, databases, session tracking, even build entire e-commerce sites.

We used PHP in our website to connect with the backend.

4) Mysql

MySQL is a relational database management system based on SQL – Structured Query Language. The application is used for a wide range of purposes, including data warehousing, e-commerce, and logging applications. The most common use for mySQL however, is for the purpose of a web database.

MySql is used in our website for the creating the database and connecting it with the frontend.

6. Working Process

The whole projected can be divided into three parts. The first part is all about planning and developing the prototype of the project. The second part is about front-end and the third part was about the back-end and integration.

We developed the prototype by designing the layout of the web pages on the Photoshop application. The layouts required changing for a few times until we get the satisfactory version. In the meantime, we collected the required information for the application. We acknowledged the things we will require for the project and then moved to the second step.

In this step, we started working on the front-end. The works start with by developing the ERD diagram and the table diagram of the project. As the project is completely a new breed, it was quite challenging for us to design the diagrams. Finally, after completing the diagrams, we start designing front-end structure of the web pages.

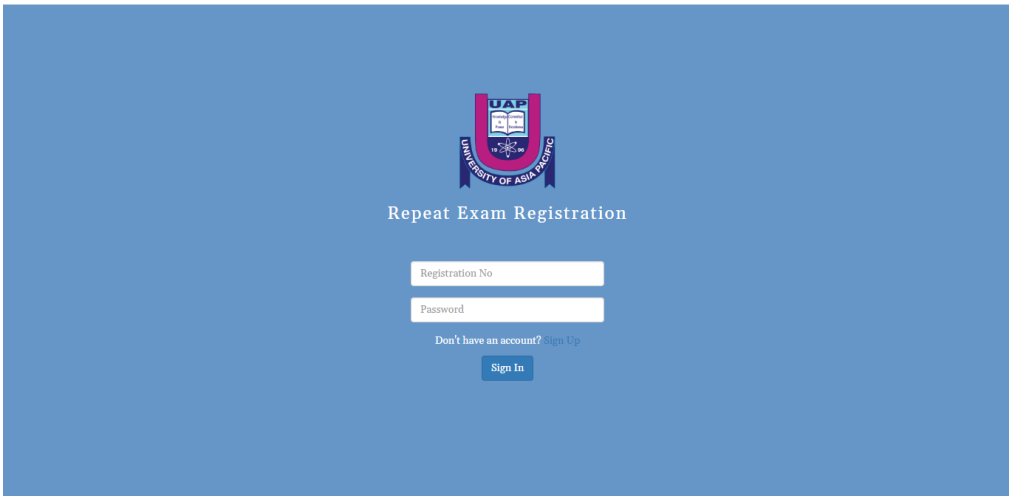
We designed the web pages with html and inline CSS. However, later we changed the code to the external CSS sheet along with bootstrap for ease of work.

The final part was creating the back end of the project. It was also the hardest part as none of us was previously experienced about PHP. However, finally, we did it with help of the google and YouTube.

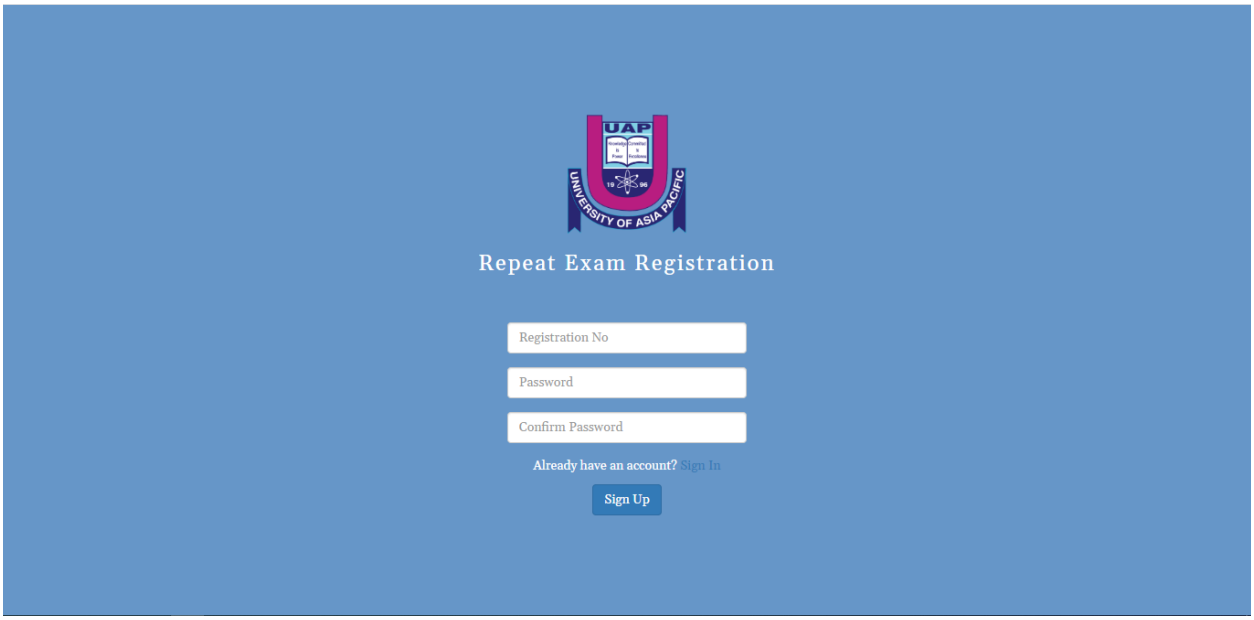
7. Result

Fortunately, we achieved the result that we wanted. There are some tiny changes in the in the prototype but we are fortunate that we were able to create the application generator 95% as we wanted. Here are some of the snaps of our final product:

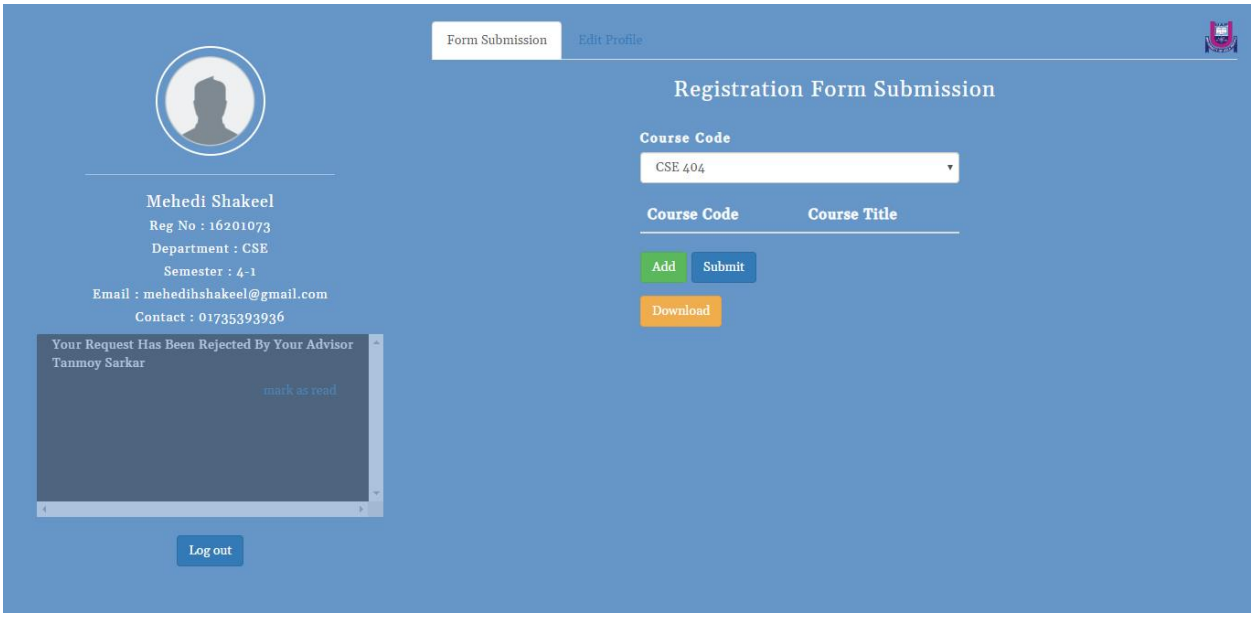
Screenshot 1 : Login Page



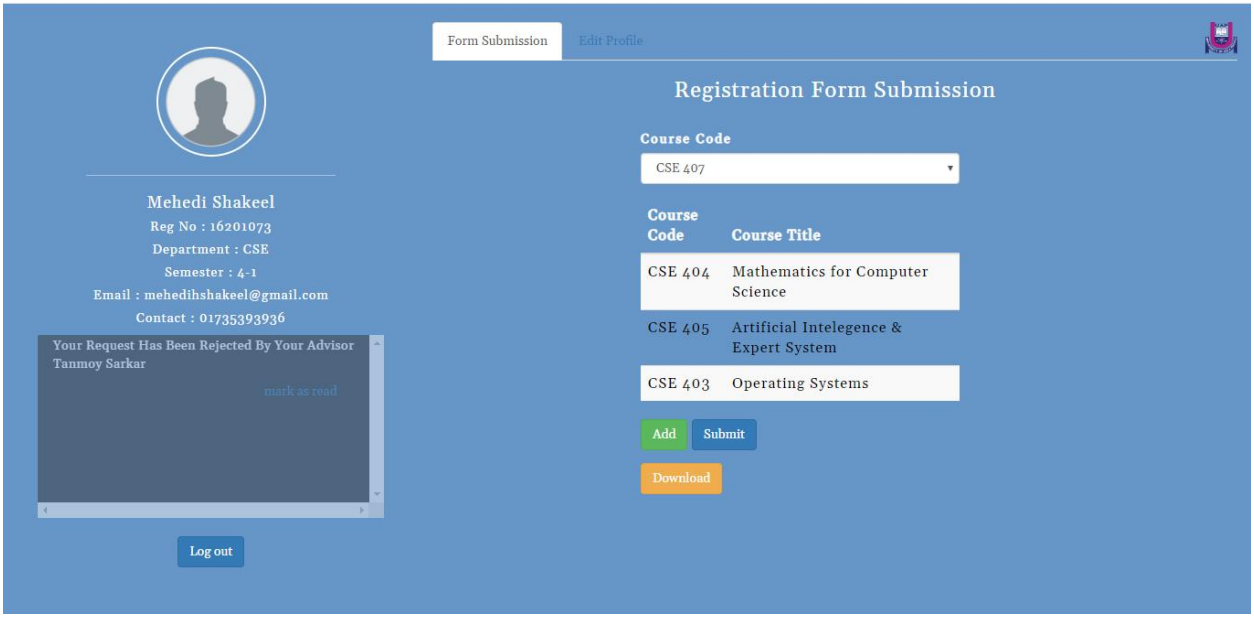
Screenshot 2: Registration Page



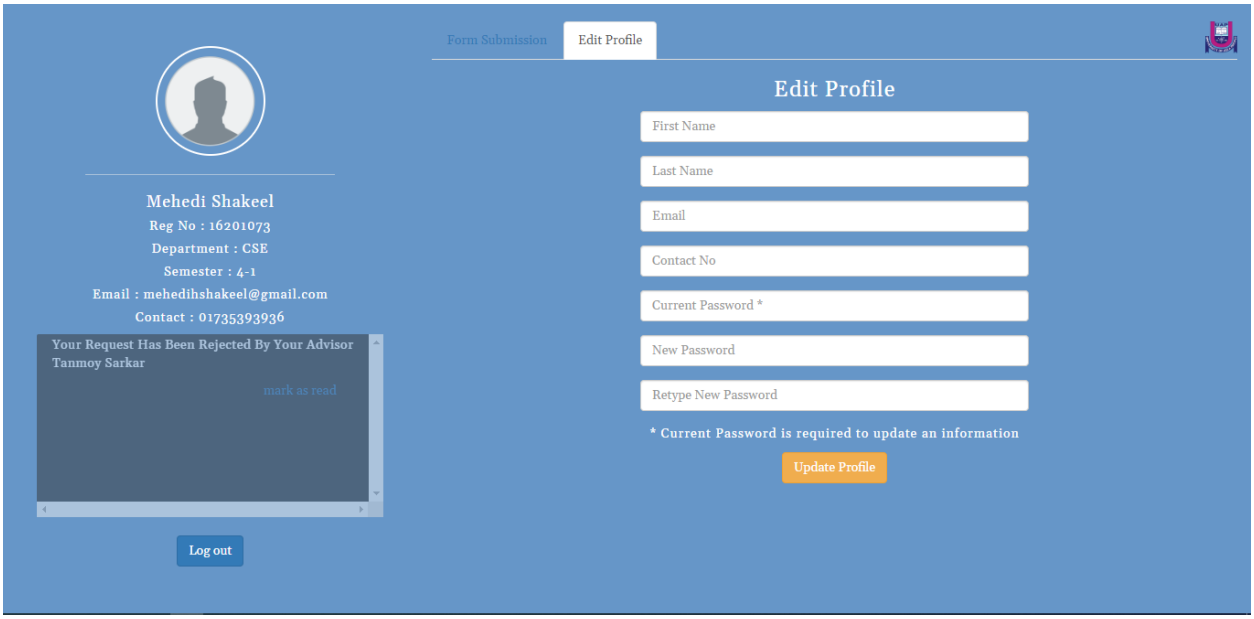
Screenshot 3: Profile Page



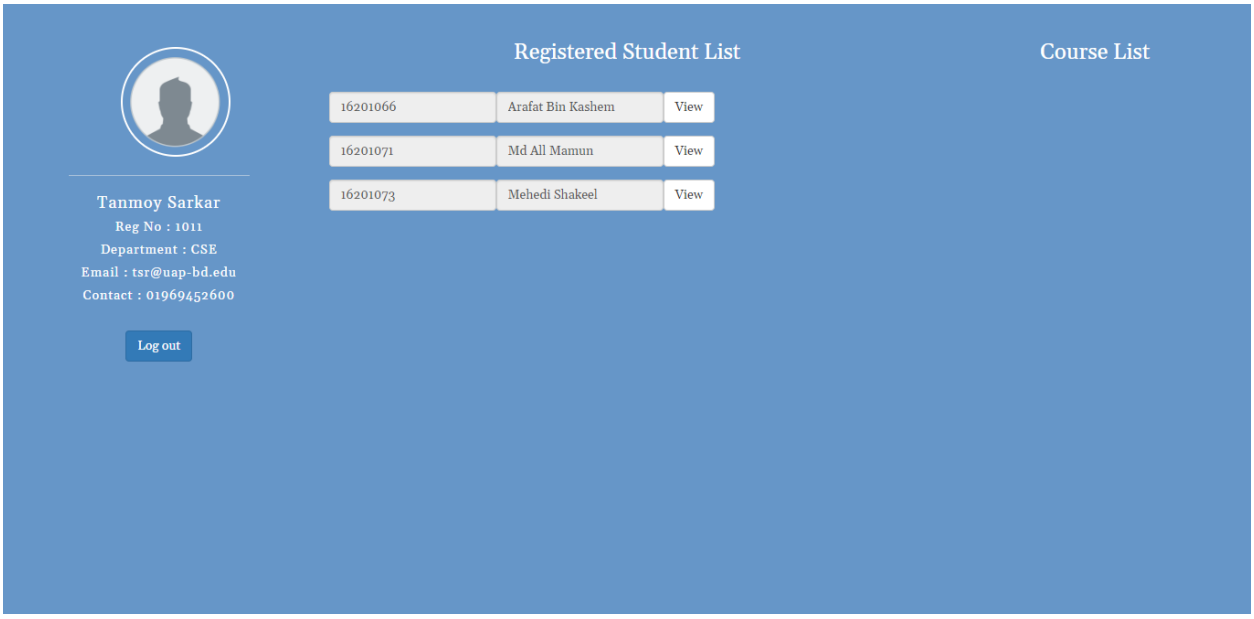
Screenshot 4: Registratiion form Submission



Screenshot 5: Edit Profile



Screenshot 6: Advisor Page



Student can resister an account using their reg ID number and password. They can use the information to login after registration. Later they can edit the profile to add required information. Then from the profile page they can add subject and download the repeat examination form. A copy of the form will be sent to the advisor; the advisor can also view the form if required.

8. FUTURE SCOPE

The Repeat Examination Form Generator can be easily made more user-friendly by working with the front-end. More so, it is currently designed for the computer science department of the University of Asia Pacific. But in future, we can make it available for all the department of the university.

There are also chances to work with the speed optimization and basic outlook of the website. In future, these problems can be easily solved for a better and easier user experience.

9. Conclusion

We the development of the technology, things is becoming much easier day by day. The UAP repeat examination generator can be a great way to automate a hassling job for the student. By using the application generator, the student will not require going to the advisor or registrar for the form as they can easily generate it from their computer with a few clicks.