**Project Proposal for the** **software tool to handle student request.**

**Group Members:**

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**Introduction**

The modern world focuses on how to make the human life more comfortable and easier by using the modern technologies. Each invention throughout the ages are the immense results of this. One of the remarkable milestones in this lineage is the invention of software tools. Since the invention of the software, man is trying to improve it for fulfil various requirements. Software can be used not only in various day to day activities, but also in many fields and works. Software is needed in almost every industry, in every business, and for every function. It becomes more important as time goes on.

This is our proposal for the group project, “software tool to handle student request”, for the module Engineering Skill Development. In this course, we are required to design and develop a software tool to handle student request in a scenario where students send requests to academic staff on matters such as late add/drop requests, extend assignment submission deadlines, repeat exams as first attempt with the next batch etc. This project gives an understanding towards how to implement a software tool for specific requirements.

In this proposal we have included,

* Available products/tools that can solve the given problem and explain their strengths and limitations.
* Tentative solution that we propose to address the problem.
* How we plan to demonstrate the final product.
* Individual team member responsibility assignment.

**Available products/tools and their strengths and limitations.**

There are some products/tools available to solve this problem. They are not developed only for this problem. Among them most familiar tools are Gmail, Moodle.

Gmail is a widely used platform for mailing purposes. Even though it has some potential qualities, it is not the best solution for our problem.

Advantages

* Gmail is a common free source.
* As Gmail is maintained by Google, it is a safe and reliable platform.
* Gmail supports any kind of attachment with the mail (e.g.: image files, pdf files, video files), which helps students to submit original evidence for their request.
* We can view the cached version of the inbox even there is no internet connection.

Disadvantage

* Gmail is not a specific platform for our unique purpose.
* It is difficult for the lecturer to identify students by their department, batch, module, type of issue.
* It is difficult for the lecturer to keep track of each student’s issues.
* Students cannot view the current status of their requests.

**Basic techniques and the technologies we going to use.**

In this course, we are required to design and develop a software tool to handle student request. First, we have to find appropriate type of software tool for this problem. Our software tool has convenience for staffs and students. So, it can be accessed through any device easily. Our software tool has user accounts and students can send requests to staff. So, our software tool should be a web-based tool. Therefore, we choose web application to demonstrate our solution.

First, we need to plan what we are going to do. Hence, we can get clear image of our project. We can easily explain and discuss our design among us. For this purpose, we create a wireframe of our web application. We use Balsamiq (wireframe software) to create our wire frame.

Web application is a client-side and server-side software application. It generates dynamic Web pages containing various types of markup language like HTML, XML. We use HTML (Hyper Text Markup Language), CSS (Cascading Style Sheets), Bootstrap for frontend since we are beginners.

HTML

* HTML is the basic for web applications. Easy to learn.
* It is user friendly.
* It is supported for all browsers.

CSS

* There is no alternative for CSS.
* Easy to use and learn.
* All browsers will support CSS features.

Bootstrap

* Bootstrap is a new library.
* We can use bootstrap from CDN (Content Delivery Network) instead of downloading.
* It helps to save our effort and time.
* Bootstrap mainly uses for to make responsive layout, grid layout.
* It has excellent documentation.
* Mainly bootstrap is an open-source framework.

In this project we use php as server-side language and MySQL as database management system is the most used backend language in web. It is easier to learn and use. It supports many databases. And it is object oriented language.so for this project, we chose php as server-side language. MySQL is very simple fundamental database system. But it is so much powerful. So, we choose MySQL.

**How we plan to demonstrate the final product**.

We already designed the structure of web application.Thereafter, we discussed and divide works equally.Pictures given below are wire frames of our web application.

Graphical user interface, application, Word

Description automatically generated

As we are beginners first we need to study new techniques.We use online platform to study those things and we will ask help from resorced friends or seniors to clarify our major doubts.

First, we are going to work with front end development. After finishing certain part of the front end, we start back end development parallelly. This will help in finishing project within deadline. After completing front end, back end development we will test our application. Then we will improve our application by adding more feature, remove unnecessary features and try to give better user interface.

**Individual Team Member Responsibility.**

We are going to do everything together, but we have given the responsibility of completing different tasks to different people so that they will make sure that it will get done.

Design, test, and demonstration - T.Sakeerthan

Student’s front end development - S.Ashokkumar

Teacher’s front end development - K.Aravinthan

Student’s back end development - S.Gopinath

Teacher’s back end development - S.Kandeeban