**eStudiez Website**

CHAPTER 1: INTRODUCTION

PROBLEM

Education is a primary necessity and for Parents/Guardians to be updated about their wards, progress is even more important. Students who fail in exams might not reveal their marks to their Parents/Guardians because of fear. Teachers too are overloaded with work, because of which it becomes difficult to remember each child’s academic progress. Also, students too must be kept aware about their score progress and marks required for passing External Exams.

PROPOSED SOLUTION

A Website named 'eStudiez' which will be intended to track academic progress of a student. This system will allow various types of users such as Students, Parents/Guardians, and Teachers to view and track progress.

Students who have fared poorly will be provided additional study resources via this portal to improve their future performance. This portal will also provide information regarding Revision classes that can help to boost performance. Each student’s progress can be viewed and tracked by Students themselves and their Parents/Guardians.

SCOPE OF PROJECT

This Web portal will be a responsive and visually appealing Website to be used by individuals (Students, Parents/Guardians, and Teachers). The website should display a student portal for students and parents to be in the loop of the academic progress of their ward.

CONSTRAINTS

The Web portal will not have any facility to store information on the server. Information can be fetched from pre-populated JSON or TXT files and displayed, however, information cannot be written to the files from within the portal.

CHAPTER 2: PROJECT PLAN

PRODUCT PERSPECTIVE

The ESTUDIEZ WEBSITE application is a web-based system. It can be accessed using Microsoft Edge and Google Chrome.

USER INTERFACE

USER INTERFACE: The users of the website, both parents, teachers and students should view the home page, parents should view scores and other information about their ward. Students are able to get revisions for various subjects.

The contact info of parents and teachers will be available on the web page. There will be a count of every user that visit the web page.

ADMIN INTERFACE: Teachers are able to update students records, upload learning resources and revision classes.

HARDWARE INTERFACE

The ESTUDIEZ WEBSITE web page shall provide minimum hardware requirements. The following hardware configurations are required for a PC using the online shopping-cart application:

• Intel Core i5 Processor or higher

• 5 GB RAM or above

• Color SVGA

• 120 GB Hard Disk space

• Mouse

• Keyboard

SOFTWARE

The technologies used for the development of the website are as follows:

**• Frontend:** HTML5, CSS, JavaScript, jQuery, and AngularJS

**• Data Store:** JSON files

FUNCTIONAL REQUIREMENTS

The portal will be designed as a Single-Page-Application and responsive Website with a set of pages and menus that represent choice of activities to be performed. The pages, menus, and other visual elements must be designed in a visually appealing manner with attractive fonts, colors, and animations. All of these should also be laid out in a responsive manner.

Following are the functional requirements of the portal:

**• Menus and Web Page Functionality:** Welcome Message: The home page should accept first name from the user and display a personalized welcome message. At the top corner, the user's first name should be displayed for the entire duration that the portal is loaded. The home page must also accept category of user in the form of radio button selection. Based on selection, respective page and menus will be displayed. Refer the Sitemap section to see sample menus.

**• For Students:** Marks that they have scored in internal tests conducted by teachers will be displayed in a table. Academic Progress menu option will display the gradual progress in various tests across the year in the form of table data. Study Resources menu option should display a table containing links to external sites, Videos, and additional textbooks. Revision Classes menu option should display information pertaining to extra classes for revision purposes.

**• For Teachers:** Teachers can update marks that students have scored in internal tests conducted. This can be done through a form. These marks will not be stored anywhere and will not reflect on the Student page as that functionality is beyond the scope of the project. Academic Progress menu option will enable teachers to update the gradual progress in various tests across the year. The data for this can be accepted via a form. Add Study Resources menu option should enable teachers to add links to external sites, and additional textbooks. Revision Classes Updation option should accept date and times for extra classes for revision purposes.

**• For Parents/Guardians:** They can view marks and academic progress of their wards. Helplines will display list of phone numbers that parents/guardians can call in case they require general assistance.

**• Feedback and Contact Us:** These menu options have common functionality for all category of users regardless of whether they are students, teachers, or parents/guardians. Feedback menu option should enable users to provide their feedback about this portal through a feedback form. Contact Us menu option should enable users to contact the creators of the portal. An email id can be displayed here for contact information.

**NON FUNCTIONAL REQUIREMENTS**

There are several non-functional requirements that should be fulfilled by the Website, henceforth called the 'system'. The system should be:

**• Safe to use:** The system should not result in any malicious downloads or unnecessary file downloads.

**• Accessible:** The system should have clear and legible fonts, user-interface elements, and navigation elements.

**• User-friendly:** The system should be easy to navigate with clear menus and other elements and easy to understand.

**• Operability:** The system should operate in a reliably efficient manner.

**• Performance:** The system should demonstrate high value of performance through speed and throughput. In simple terms, the system should be fast to load and page redirection should be smooth.

**• Capacity:** The system should support large number of users.

**• Availability:** The system should be available 24/7 with minimum down time. Compatibility: The system should be compatible with latest browsers.