



*Software Requirements Specification
Version 1.0*

eStudiez Portal

Category: Website Design and Development

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1.1 Background and Need for the Portal

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. A Web portal to track all these is a solution.



1.2 Proposed Solution



You will design and build a Website named 'eStudiez' 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.

1.3 Purpose of the Document

eStudiez Portal is proposed as an online support portal for users (Students/Parents/Guardians/Teachers).

This document:

- ❖ Presents purpose and features of the portal
- ❖ Explains interfaces of the portal
- ❖ Describes what the portal will do
- ❖ Lists the constraints under which it must operate




1.3.1 Who Can Use this Document?

Stakeholders and developers of the portal

Sample Site Map

Landing Page



Welcome to eStudiez Portal

Enter Your Name:

Select the user category you belong to?

☐ Teacher
☐ Student
☐ Parent/Guardian

Upon selecting an option, the respective site page and menus should be displayed.

Student Page

[Your Marks](#)
Table*

[Academic Progress](#)
Table*


[Study Resources](#)
Table*
containing links to external sites, Videos and additional text books

[Revision Classes](#)
Table*

[Feedback](#)
Form

[Contact Us](#)
Contact info

Hello, Sarah!




Welcome to eStudiez
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Helplines

**Hard-coded values will be displayed since, there is no scope for database fetching in this Website.*

Teacher Page

Hello, Mrs. Brown!



[Students Marks/Score Updations](#)
Form

[Students Academic Progress](#)
Form

[Add Study Resources](#)
Form to add links to external sites, Videos and additional text books

[Revision Classes Updations](#)
Form

[Feedback](#)
Form


[Contact Us](#)
Contact info

Welcome to eStudiez
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Values entered by teacher will not be reflected in Student page since, there is no scope of database functionality in this Website. However, all forms must have proper validations.

Parent/Guardian Page

Hello, Peter Lawrence!



[View Marks Table*](#)

[View Academic Progress Table*](#)

[Feedback Form](#)

[Contact Us](#)
Contact info

Welcome to eStudiez
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Helplines

1.4 Scope of Project

This Web portal will be a responsive and visually appealing Website to be used by individuals (Students, Parents/Guardians, and Teachers).

1.5 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.

1.6 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:

Note: For several of these options, information will be retrieved from a pre-populated JSON file and displayed.
(Hint: Use AngularJS directives, filters, services, controllers, and other features to implement this).

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.

Date and time of these classes can be displayed here. Helplines will display list of phone numbers that students can call in case they require general assistance.

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.

Over and above this, the portal should implement following functionalities:

- Display a continuous scrolling ticker at the bottom of the page with current date, time, and location (hint: Use geolocation features of HTML5).
- Display a visitor count at the top right corner of the page beside a logo image.
- Menu options should change color on hover and also after clicking.
- Fade-in and fade-out options can be used for the menus.

Important: Do NOT use boilerplate templates or readymade templates for development as it will adversely affect your evaluation. Your own Website design and development skills will be tested, hence no third party templates should be used here.

1.7 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.

These are the bare minimum expectations from the project. Once the functional and non-functional requirements are fulfilled, you can use your own creativity and imagination to add more features.

1.8 Interface Requirements

1.8.1 Hardware

Intel Core i5 Processor or higher
5 GB RAM or above
Color SVGA
120 GB Hard Disk space
Mouse
Keyboard

1.8.2 Software

Technologies to be used:

1. **Frontend:** HTML5, CSS, Bootstrap, JavaScript, jQuery, AngularJS, and XML
2. **Data Store:** JSON files or TXT files

1.9 Project Deliverables

You will design and build the project and submit it along with a complete project report that includes:

- Problem Definition
- Design specifications
- Diagrams such as flowcharts for various activities, Data Flow Diagrams, and so on
- Source Code
- Test Data Used in the Project
- Project Installation Instructions (if any)

Documentation is considered as a very important part of the project. Ensure that documentation is complete and comprehensive. The consolidated project will be submitted as a zip file with a ReadMe.doc file listing assumptions (if any) made at your end and JSON/TXT files containing test data.

Over and above the given specifications, you can apply your creativity and logic to improve the portal.

~~~ End of Document ~~~