

System Requirements Specification (SRS)

Project Name:
Website Development

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SECTION 1.

INTRODUCTION

1.1. Purpose

A digital communication platform is a must through which department, teachers, students and alumni can interact with each other easily, to get particulars related to any type of events, courses, result updates, student attendance, and any other activities etc. Also, a platform to collaborate with the alumni is necessary to keep in touch with current industry.

1.2. Intended Audience

This project is a prototype for the department and it is restricted within the university premises. The intended audience of this project are students, teachers, staff and alumni.

1.3. Project Scope

The purpose of the website is to ease management, teachers & students and to create a convenient environment. Above all, we hope to provide a comfortable user experience.

1.4. Contact Information

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SECTION 2.

OVERALL DESCRIPTION

2.1. Product Perspective & Functions

The project mainly consists of a website containing web server. The website interacts with the related information to get the product particulars. The website product mainly support the high level function known as Search. Users will be able to search and system would display the product matching this criteria.

2.2. User Classes & Characteristics

There are mainly two kinds of users of this website:

- **Online Users:** *These users are the website client who will access the site online. Users have minimal technical knowledge and hence need intuitive navigation aids and simple page layouts.*
- **Site Administrator:** *Administrator is responsible for maintaining the website and will be involved in software fixes, deployment and regular maintenance.*

2.3. Operating Environment

Operating environment for this project must be an operating system first then a web browser (chrome, firefox etc.) and a client/server system.

SECTION 3. EXTERNAL INTERFACE REQUIREMENTS

3.1. User Interfaces

The user interface of the developed website is simple and minimalist design so user can stay calm and peaceful. Search results page displays the results of search operation. The results should be paginated with configurable page size. The interaction with website functionality is trouble-free and the user can grab requirements properly.

FRONT-END: HTML & CSS

BACK_END: PHP

DATABASE: MYSQL

3.2. Hardware and Software Interfaces

There is no direct hardware interface specifically for this project. However, proper and active internet connection is required. A browser which supports HTML, CSS, PHP and MYSQL.

3.3. Communication Protocols & Interfaces

This project supports all types of web browsers. We can also define the protocol of communication between two or more entities like student and teacher etc. They can comfortably communicate with each other from any place. Teachers can drop course stuff on this platform and students can access that material from the website. Even all the related information with respect to departmental activities and others can be shared.

SECTION 4. OTHER NONFUNCTIONAL REQUIREMENTS

4.1. Performance Requirements

The following are the key performance requirements,

- *All pages should load within 2 seconds.*
- *Search results should be displayed within 1 second.*

4.2. Safety and Security Requirements

This website product does not store or transmit any sensitive information. This is working on specific standards and we can use strong passwords, a secure host, SSL certificate, regular scan and backup etc. to provide security and safety to our website.

4.3. Software quality Attributes

Reliability

Website should provide reliable and relevant search results 100% of times.

Availability

Website should be available 99.999% of times. All site upgrades, patches and fixes should be done without shutting down the system.

Maintainability

The following maintainability features should be supported,

- *Website should adopt standards based integration for extensibility and scalability.*
- *All code artifacts should have proper documentation.*
- *All code components should be thoroughly tested and the test coverage should be more than 95%.*

SECTION 5.

APPENDICES

5.1. Terminologies

User interface

The means by which the user and a computer system interact, in particular the use of input devices and software.

Online User

A person - including intelligent programs - that uses computer or internet services.

Site Administrator

They are responsible for the planning, budgeting, and coordination of construction projects, as well as the necessary administrative duties associated with each contract.

Operating Environment

An operating environment or integrated applications environment is the environment in which users run application software.

Functional Requirement

“Any Requirement Which Specifies What The System Should Do.”

Nonfunctional Requirement

“Any Requirement That Specifies How The System Performs A Certain Function.”