
Software Requirements Specification

for

Online Fee Payment System

INTERNET TECHNOLOGIES

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1. Introduction

1.1 Purpose

This document specifies the software requirements for an Online Fee Payment System. It covers various aspects such as the the current system, platform and technologies used for the new system, the targeted audience, the end users for the product, and the feasibility of the product.

1.2 Intended Audience

This document is intended for developers, testers and documentation writers. The SRS contains a detailed explanation of the proposed system.

1.3 Product Scope

The idea behind this project is to provide college students with a platform to deposit their fee online. The manual procedure is time consuming and tiring, both on the part of the student and the administrative staff. With an online computerized system, both efficiency and accuracy of the current system will be improved.

1.4 Technology Stack

The front-end will be HTML pages with CSS with Java Script for client side validation whereas all business logics will be in Java reside at middle layer. JSP will be used to dynamically generate web pages Third layer of database will be interacted with these layers, which would be Oracle database. The web server would be Tomcat 5.5 version. Server having Tomcat5.5 as web server is required to start working on this project environment like Java Runtime Environment (JRE) as development environment and MySQL as database.

2. Overall Description

2.1 Product Perspective

The current system of fee deposition and collection is largely manual. This product will act as a replacement for the current system by taking the procedure online. The users (i.e., students) will be able to deposit their fee online, without the hassle of queues. The institution will be able to collect the fee, without the hassle of handling students in queues.

2.2 Product Functions

- Allows users (i.e., students) to deposit fee online using their unique identity.
- Allows the administrative staff to keep track of all depositions/non-depositions via an admin account.

2.3 Operating Environment

- Client:
Hardware Requirements - core 2 duo or higher, 1 GB Ram, 3 GB hard disk.
Software Requirements - java enabled browser
- Server:
Hardware Requirements – 5th generation core i5, 16 GB Ram, 300 GB Hard disk
Software Requirements – Java, oracle 10g, MySQL, Apache Tomcat.

2.4 Design and Implementation Constraints

The front-end will be HTML pages with CSS, therefore, the developer should with familiar with these to make any design changes.

The dynamic web pages will be generated using JSP and JAVA. JavaScript will be used for user side validation. The developer must be familiar will all these languages. Also, the developer must be familiar with database connectivity and formulating queries.

3. External Interface Requirements

3.1 User Interfaces

The user interfaces should be simple and clean and should avoid any redundant features. It must be easy to use.

3.2 Hardware Interfaces

Any browser which supports Java 7 is suitable for the product. Any device with such a browser can use the website.

4. Other Non-Functional Requirements

4.1 Performance Requirements

The website should be fast. It should be capable of handling multiple requests at once. It should be implemented to reduce server load, effectively. It will be used during the fee deposition time period, heavily, by the students as well as the staff. So, performance is a must during that time.

4.2 Safety Requirements

A backup copy of all the data should be maintained at all times in case of website failure or any cyber-attack.

4.3 Security Requirements

Admin(s) must login to the website before viewing/modifying any records. The payment portal should be completely secure. Confidentiality of all information must be ensured at all times. Students should be disallowed to use the website before and after the fee deposition time period.

4.4 Software Quality Attributes

- Adaptability – adaptable to new requirements.
- Maintainability – Should be easy to maintain for the developer.
- Availability – Available 24x7 during the deposition time period.
- Reliability – Data should be consistent and reliable.
- Portability – System should be easy to port in new technology.
- Robustness – System should be robust and free from bugs.

5. Feasibility

5.1 Technical Feasibility

The product and its features can all be made using the current technology stack.

5.2 Operational Feasibility

Yes. The product fulfills all the user requirements. It is simple to use and easy to learn. The use of this product will enhance the overall efficiency of the administration.

5.3 Legal Feasibility

Yes. The product is legally feasible and does not violate any copyright laws. The law and enforcement has been verified and does not use any private content.

5.4 Schedule Feasibility

Yes. The product can be completed in the given time frame of 2 months.