Assignment No : 1.2

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Aim: Consider software for academic activities of a university. The project will cover activities like managing of students as well as faculty. Design a SRS document for the project.

1. Introduction

1.1 Purpose:

This section is written to provide general information about our product "University Management System".

The main objective of our product is to maintain information about students, employees and other things like attendance, student marks, fee payment, and salary payment, registration of students for semsters, etc. The information is stored for decision making in the future for a business process within an organization. This is an website.

1.2 Document Conventions:

Abbreviations	Full Forms
DB	Database
UMS	University Management System
DBMS	Database Management System

1.3 Intended Audience

This document is to be read by the development team, the project managers, marketing staff, testers, and documentation writers. The software engineer/Developer and project managers need to become intimately familiar with the SRS. Others involved need to review the document.

Testers need to understanding the system's features to develop meaningful test cases and give proper feedback to the developers. The developers need to know the requirements of the software product they need to build. This document is for general discussions on the implementation decisions regarding the UMS.

1.4 Project Scope

The proposed of this University Management System (UMS).This product will be used to store data of students like fees, courses, marks, etc. and for faculty member like salary, class information, etc. This product will be based on a webpage/website where the university administrative can manage such huge data in one place.

1.5 References

- www.google.com
- www.wikepedia.com

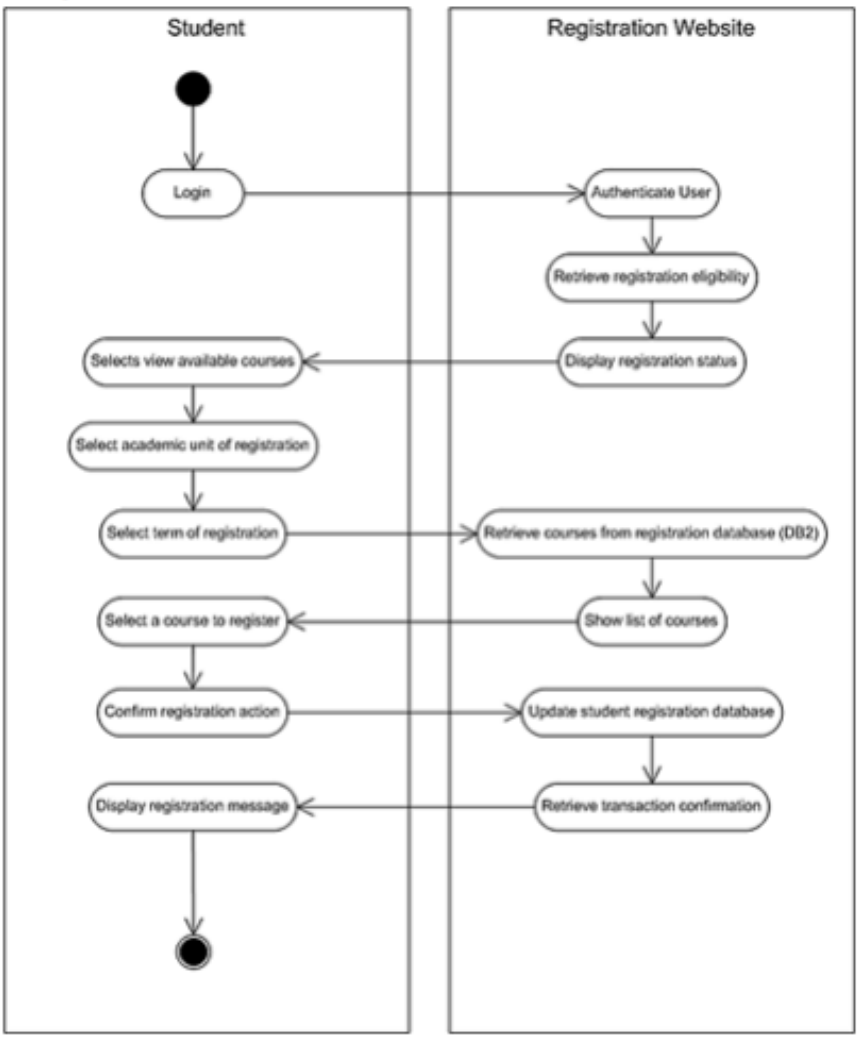
2. OVERALL DESRIPTION

2.1 Product Perspective

The main modules which are focused on this project:

- Student management
- Faculty/Employee management
- Student Fee management
- Faculty/Employee salary payment
- User registration
- Internal Marks of students
- Attendance of students
- Reports of all modules (Crystal Reports)
- Timetable for regular class

2.2 Product Features



2.3 Operating Environment

Operating environment for the university management system is as listed below.

- Database
- Client/Server system
- Operating System: Windows/MacOS/Linux.
- Database: SQL Database (XAMPP)
- Platform: HTML/Java Scripts.

2.4 Design And Implementation Constraints

SQL commands/codes for creating database for backend. For implementation of the database at least we need a centralized database management system. For connecting the SQL we used PHP.

2.5 Assumption Dependencies

- The login Id and password must be created by system administrator and communicated to the concerned user confidentially to avoid unauthorized access to the system.
- It is assumed that a student registering for the subsequent semester has been promoted to that semester by the university as per rules and has paid desired university fee.
- Registration process will be open only for specific duration i.e. issued in the notice by the university authority.

3. SYSTEM FEATURES

3.1 Description And Priority

Proposed DB is intended to store, retrieve, update, and manipulate information related to university which include

- Profile of both users
- Staff information
- Student details
- My account
- Online payment
- View attendance/Timetable/marks/uploading of marks and assignments

3.2 Stimulate/Response Sequences

- To register new student/ for the upcoming semester for existing student.
- To display the field available/offered by University.
- Confirmation for the registration.
- Login ID and password to be created/ change of expired password.

3.3 Functional Requirements

Client/Server System:

The client system is the frontend of the webpage/website. And the server system is the backend i.e the database (DBMS) .

4. EXTERNAL INTERFACES REQUIREMENT

4.1 User Interface

- Front-end software: HTML,CSS and JSP
- Back-end software: Xampp Database.

4.2 Hardware Interface

- Windows/MacOS,Linux.
- Safari, Chrome, Edge, etc.

4.3 Software Interface

Software/Tech. Used	Description
Database	We work on mySQL for the database creation, modification, etc.
HTML	To create the front end of the website we used HTML
JSP	To make the website responses in our website
CSS	To make the website more attractive we used CSS for styling.

4.4 Communication Software

This project supports all types of web browsers. We are making the data to store in a particular place that each every student can access the data of his/her at whatever they want to access. And for any kind of announcement for the University to make can be posted and it will reach to each every student within a fraction of secs/minutes.

5. NON FUNCTIONAL REQUIREMENTS

5.1 Safety Requirements

The database may get crashed at any certain time due to virus or operating system failure. Therefore, it is required to take the database backup.

5.2 Security Requirement

We are going to develop a secured database for the university .There are different categories of users namely teaching Administrator, Staff members and students etc. Depending upon the category of user the access rights are decided. It means if the user is an administrator then he can be able to modify the data, delete, append etc. All other users other than University Staff only have the rights to retrieve the information about database.

5.3 Soft Quality Attributes

The Quality of the database is maintained in such a way so that it can be very user friendly to all the users of the database.

Aim: Suppose your organization is planning to develop a travel application. Design a software requirement system for the given project.

1. Introduction

1.1 Purpose:

The purpose of this document is to describe the external requirements for an automated book-keeping system that keep track of various operations of a travel agency. It also describes the interfaces for the system.

1.2 Scope:

This document describes the requirements of the above-mentioned system. It is meant to be used by the developers and will be the basis for validating the final delivered system. Any changes made to the requirements in the future will be made with the permission of the client. The developer is responsible for asking for clarifications, where ever is necessary.

1.3 Document Conventions:

Abbreviations	Full Forms
ORGS	Organisation's
PS	Password

1.4 Intended Audience

This document will be used for design purposes by the developers and the design team. It will be the basis for validating the final delivered system.

2. OVERALL DESRIPTION

2.1 Product Perspective

2.1.1 Collect Detail about Customer

Input:

- Customer name, customer address, phone number.

Output:

- Request OTP verification.
- Updating entered data in customer database as temporary.

Description:

- Only for valid information Request is generated.
- New set of information given must not match completely with an existing entry in customer database.

2.1.2 Gather Verification:

Input:

- Confirmation of OTP verification .
- Previously entered customer data stored temporarily in customer database

Output:

- User name and password for the corresponding customer.
- Converting of temporary customer data to permanent data.

3. SYSTEM FEATURES

3.1 User Interfaces

This software needs the following user interfaces:

i) Registration Window:

User: The customer

Properties:

- This window is used for entry of customer details and registering a new customer for the online booking system.
- This window has various text fields to take the information name, address, phone number.
- There will be a register button upon registering the customer will able to Login and start booking.

ii) Log in Window:

User: The customer, the employees of the orgs using the software, the manager

Properties:

- This window has two fields for username and password, two buttons to log in and register.
- For correct user name and ps it opens an appropriate window.
- It has register button to let new customer register by redirecting to registration window.

iii) Customer Homepage:

User: Registered customer

iv) Employee Homepage:

User: The employees of the orgs using the software when logged in

v) Manager Homepage :

User: The managers of the orgs using the software.

3.2 Software Interfaces

The software runs under Linux or Windows or MacOS operating system. This software uses two different databases for booking of travelling modes and customers.

3.3 Hardware Interfaces

The system will run on a computer with at least 256 MB RAM and with internet connection. The machine is connected to a printer for printing bills or tickets etc.

3.4 Communication Interfaces

The software must be web browser enabled and HTTP protocol is used to transfer data.

4. NON FUNCTIONAL REQUIREMENTS

4.1 Performance

In every case the response time will be less than 1 second except for the cases where internet connection is used.

4.2 Security

This software offers password protection so that only regular customers can book cars, flights,etc. only authorized personnel can edit data corresponding to booking, billing and informations.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			