

ASSIGNMENT NO: 5

TITLE: To prepare Software requirement specification for Online Resto-Hub Website

PROBLEM STATEMENT:

Prepare Software requirement specifications for Online Resto-Hub Website

PREREQUISITES:

Understanding the basics of software engineering.

COURSE OBJECTIVE:

Learn installation and use of open-source software testing tools

COURSE OUTCOME:

Apply software testing tools to perform automated testing

1. Introduction

1.1 Purpose

The purpose of this Software Requirements Specification (SRS) is to define the functional, nonfunctional, and design requirements for the development of the "Online Resto-Hub" website. This web platform aims to provide users with a feature-rich and user-friendly interface that connects them to various restaurants, enabling them to browse menus, place food orders, and manage the food delivery or pickup process efficiently.

1.2 Scope

The scope of this SRS encompasses the complete development of the "Online Resto-Hub" website. It includes user registration, restaurant listings, menu browsing, order placement, payment processing, user profiles, and administrative functions for restaurant and order management. Additionally, it outlines performance, security, usability, and legal requirements.

1.3 Overview

The "Online Resto-Hub" website is designed to be a comprehensive online food ordering and restaurant discovery platform. It aims to provide a seamless experience for users who want to explore restaurant offerings, place orders, and enjoy the convenience of online food delivery or pickup. The website also offers administrative features for restaurant owners to manage their listings and orders.

2. Overall Description

2.1 Product Perspective

The "Online Resto-Hub" website is a self-contained web application that interacts with external components and may utilize services to access restaurant information. It is designed to be a standalone platform that connects users and restaurants.

2.2 Product Functions

The website will perform a variety of functions, including:

- User registration and authentication.
- Restaurant listings and menus display.
- User-friendly browsing and searching of restaurants.
- Detailed restaurant and menu information.
- User account management.
- Administrative functions for restaurant .

2.3 User Classes and Characteristics

The system caters to different user classes, including:

1. Customers: End users who browse restaurants, review respective blogs

Characteristics: Varied technical expertise, limited access to administrative functions.

2. Administrators: System administrators responsible for managing restaurants, listings.

Characteristics: Technical expertise, access to all administrative functions.

2.4 Operating Environment

The "Online Resto-Hub" website operates in a web-based environment. Key factors include:

- Hardware Platform: Supported on devices with modern web browsers.
- Operating System: Platform-independent, as it is web-based.
- Software Components: Web server, database management system, and compatible web browsers.

2.5 Design and Implementation Constraints

Several design and implementation constraints apply to this project:

- Design Conventions: User interface follows a consistent style guide.
- Database: Utilizes a specific database management system.
- Language Requirements: Development using specific programming languages.
- Communications Protocols: Compatible with specific communication standards.

3. External Interface Requirements

3.1 User Interfaces :

Graphical user Interface is developed using-

- HTML CSS,
- Javascript And Bootstrap

3.2 Software Interfaces :

- JavaScript
- EJS template
- Node JS
- Operating System - Windows

4. Functional Requirements

4.1 User Registration and Authentication

- Customers can register for user accounts with personal information.
- Users can log in to their accounts using email and password.

4.2 Restaurant Listings and Menus

- Display a categorized list of restaurants with details such as name, cuisine, location, and ratings.
- Allow users to search and filter restaurants by cuisine, location, and ratings.
- Display detailed restaurant information, including menus, prices, item details, and user reviews.

4.3 User Account Management

- Users can view and edit their profiles, including contact information.
- Users can view their order history and track the status of current orders.

4.4 Administrative Functions

- Administrators can manage restaurant listings, including adding, editing, and removing restaurants and their menus.
- Administrators can view and manage customer orders and resolve issues.

5. Conclusion

This Software Requirements Specification provides a detailed overview of the requirements for the "Online Resto-Hub" website. It serves as a reference for development, testing, and future enhancements.