Software Engineering and Agile Practices Assignment - 2nd

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Software Requirements Specification

Online Shopping Web System

Introduction

1.1 Purpose

- The purpose of the Online Shopping System is to provide a convenient and user-friendly platform for users to browse, select, and purchase products online.

1.2 Scope

- The system will include features such as user registration, product catalog, shopping cart, secure payment processing, order management, and user account management.

1.3 Definitions, Acronyms, and Abbreviations

SRS	Software Requirements Specification
UI	User Interface
DB	Database
API	Application Programming Interface

1.5 Overview

- The Online Shopping System will be a web-based application accessible through standard web browsers. It aims to provide a seamless and secure shopping experience for users.

Overall Description

2.1 Product Perspective

- The system will be a standalone application interacting with external systems for payment processing and order fulfillment.

2.2 Product Functions

- User Registration and Authentication
- Product Catalog Management
- Shopping Cart
- Secure Payment Processing
- Order Management

- User Account Management

2.3 User Classes and Characteristics

- Regular Users: Individuals who browse and purchase products.
- Admin Users: Responsible for managing the product catalog, user accounts, and orders.

2.4 Operating Environment

- The system will be compatible with standard web browsers (Chrome, Firefox, Safari, etc.) and will require a reliable internet connection.

2.5 Design and Implementation Constraints

- The system will be developed using HTML, CSS, JavaScript, PHP and MySQL.
- Compatibility with various devices and screen sizes will be considered during the UI design.

System Features

3.1 User Registration and Authentication

- Users can create accounts, log in, and recover passwords.

3.2 Product Catalog Management

- Admins can add, edit, or remove products from the catalog.
- Products will be categorized for easy navigation.

3.3 Shopping Cart

- Users can add/remove items, view the cart, and proceed to checkout.

3.4 Secure Payment Processing

- Integration with a secure payment gateway to process transactions.

3.5 Order Management

- Users can view order history and track the status of their orders.
- Admins can manage and fulfill orders.
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3.6 User Account Management

- Admins can manage user accounts, view activity logs, and handle support requests.

External Interface Requirements

4.1 User Interfaces

- Intuitive and responsive UI for both desktop and mobile users.

4.2 Hardware Interfaces

- Suitable display monitors.

4.3 Software Interfaces

- Integration with payment gateways, shipping providers, and any third-party services.

4.4 Communication Interfaces

- Use HTTPS for secure communication between the client and server.

Non-functional Requirements

5.1 Performance

- The system should handle a minimum of finite concurrent users.
- Response time for critical operations should be under 5 secs

5.2 Security

- Implement encryption for sensitive data (user credentials, payment information).
- Regular security audits and updates.

5.3 Reliability

- The system should have a minimum uptime of 75%.
- Regular backups of the database.

5.4 Usability

- The UI should be user-friendly and accessible.
- Provide online help and documentation.

5.5 Maintainability

- Code should be well-documented.
- Allow for easy updates and maintenance.

This SRS document provides an overview of the requirements for the Online Shopping System. It serves as a foundation for the development team and stakeholders to understand the scope and functionality of the system.