

Software Requirements Specification (SRS) for Fivestar Tech Online Shopping

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1. INTRODUCTION

1.1 PURPOSE

The purpose of this Software Requirements Specification (SRS) is to define the requirements for the Star Tech Online Shopping website, hereinafter referred to as "Star Tech." This document serves as a reference for the development and testing teams to create a high-quality online shopping platform.

1.2 SCOPE

The scope of this SRS includes the features, functionalities, and constraints of the Star Tech Online Shopping website available at [\[https://www.startech.com.bd/\]](https://www.startech.com.bd/)(<https://www.startech.com.bd/>).

1.3 DEFINITIONS, ACRONYMS, AND ABBREVIATIONS

- SRS: Software Requirements Specification
- URL: Uniform Resource Locator

1.4 REFERENCES

- [Star Tech Online Shopping](<https://www.startech.com.bd/>)

1.5 OVERVIEW

Star Tech is an online shopping platform that offers a wide range of electronics and technology-related products. This SRS document outlines the requirements necessary to maintain and enhance the website's functionality and user experience.

2. OVERALL DESCRIPTION

2.1 PRODUCT PERSPECTIVE

Star Tech is a standalone online shopping platform. It interfaces with various external payment gateways and logistics services to facilitate online transactions and product deliveries.

2.2 PRODUCT FEATURES

The key features of Star Tech include but are not limited to:

- User registration and authentication
- Browsing and searching for products
- Adding products to a shopping cart
- Online payment processing
- Order tracking and history
- Customer support and feedback

2.3 USER CLASSES AND CHARACTERISTICS

The primary user classes for Star Tech are:

1. Guests: Users who visit the website without logging in.
2. Registered Users: Users who create accounts on the website.
3. Administrators: Website administrators who manage products, users, and orders.

2.4 OPERATING ENVIRONMENT

Star Tech operates in a web-based environment, accessible through standard web browsers. It is compatible with common operating systems such as Windows, macOS, and Linux.

2.5 DESIGN AND IMPLEMENTATION CONSTRAINTS

Star Tech is designed to be responsive and accessible on various devices, including smartphones, tablets, and desktop computers. It must adhere to web development best practices and be compatible with modern web browsers.

2.6 USER DOCUMENTATION

User documentation, including a user guide and FAQs, will be provided on the website to assist users in navigating and using the platform effectively.

2.7 ASSUMPTIONS AND DEPENDENCIES

The successful operation of Star Tech depends on external services for payment processing and order fulfillment. It assumes a stable internet connection for users.

3. SPECIFIC REQUIREMENTS

3.1 EXTERNAL INTERFACE REQUIREMENTS

3.1.1 USER INTERFACES

- Star Tech shall provide a user-friendly web interface accessible via standard web browsers.
 - The interface shall be responsive, adapting to various screen sizes and devices.
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3.1.2 HARDWARE INTERFACES

- Star Tech shall not require any specific hardware interfaces beyond standard input devices (e.g., keyboard, mouse) and display devices (e.g., monitor, screen).

3.1.3 SOFTWARE INTERFACES

- Star Tech shall integrate with external payment gateways for processing payments securely.
- Integration with logistics and shipping services may be required to track and fulfill orders.

3.1.4 COMMUNICATION INTERFACES

- The website shall use secure communication protocols (e.g., HTTPS) to protect user data during transmission.

3.2 FUNCTIONAL REQUIREMENTS

The functional requirements specify the interactions and capabilities of the Star Tech website, including but not limited to:

1. USER REGISTRATION

- Users can create accounts with valid email addresses and passwords.

- User profile information can be updated.

2. PRODUCT BROWSING

- Users can browse products by categories and search for specific items.
- Detailed product pages include descriptions, images, and prices.

3. SHOPPING CART

- Users can add and remove items from their shopping carts.
- Cart contents are saved for registered users.

4. CHECKOUT AND PAYMENT

- Users can proceed to checkout from their shopping carts.
- Payment options include credit/debit cards and other supported methods.

5. ORDER MANAGEMENT

- Users can view order status and history.
- Registered users can track orders.

6. CUSTOMER SUPPORT

- Users can contact customer support for inquiries and assistance.

7. ADMINISTRATOR FEATURES

- Administrators can manage product listings and inventory.
- User accounts can be managed, including suspending or banning users if necessary.

3.3 NON-FUNCTIONAL REQUIREMENTS

3.3.1 PERFORMANCE REQUIREMENTS

- The website shall load product pages within 2 seconds on average.
- Payment processing shall be completed within 10 seconds.
- The system shall support concurrent users without significant performance degradation.

3.3.2 SECURITY REQUIREMENTS

- User passwords shall be securely hashed and stored.
- Payment information shall be encrypted during transmission.
- Access to sensitive administrator functions shall require authentication and authorization.

3.3.3 RELIABILITY REQUIREMENTS

- The website shall have a system for regular backups and disaster recovery.
- It shall have an uptime of at least 99.9% per month.

3.3.4 USABILITY AND USER EXPERIENCE REQUIREMENTS

- The website shall be intuitive and user-friendly.
- It shall be accessible to users with disabilities in compliance with accessibility standards.

3.3.5 LEGAL AND COMPLIANCE REQUIREMENTS

- The website shall comply with applicable data protection and privacy laws.
- Terms and conditions, as well as a privacy policy, shall be accessible to users.

This Software Requirements Specification serves as a foundation for the development and testing of the Star Tech Online Shopping website. It will be subject to updates and revisions as necessary throughout the development process.

Client Signature

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We look forward to hearing from you soon!