**Software Requirements Specification**

**For** your personal recommender

#### Version 2.0

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| **Software Requirements Specification for your personal recommender**  **Table of Contents** | **Page 2** |
| **Table of Contents** | **ii** |
| **Revision History** | **ii** |
| **1. Introduction** | **1** |
| 1.1 Purpose | 1 |
| 1.2 Document Conventions | 1 |
| 1.3 Intended Audience and Reading Suggestions | 1 |
| 1.4 Project Scope | 1 |
| **2. Overall Description** | **2** |
| 2.1 Product Perspective | 2 |
|  | 2 |
| 2.2 User Classes and Characteristics | 2 |
| 2.3 Operating Environment | 2 |
| 2.4 Design and Implementation Constraints | 2 |
| 2.5 User Documentation | 2 |
| 2.6Profit Sharing: The application is constrained by the need to adhere to a profit-sharing model (50% for the sytem)  Integration with Local Restaurants: The success of the application depends on establishing integration with travel agency and restaurant Assumptions and Dependencies | 3 |
| **3. System Features** | **3** |
| 3.1 System Feature 1 | 3 |
| 3.2 System Feature 2 (and so on) | 4 |
| **4. External Interface Requirements** | **4** |
| 4.1 User Interfaces | 4 |
| 4.2 Hardware Interfaces | 4 |
| 4.3 Software Interfaces | 4 |
| 4.4 Communications Interfaces | 4 |
| **5. Other Nonfunctional Requirements** | **5** |
| 5.1 Performance Requirements | 5 |
| 5.2 Safety Requirements | 5 |
| 5.3 Security Requirements | 5 |
| 5.4 Software Quality Attributes | 5 |

# Revision History

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### 1. Introduction

##### 2. The purpose of our project is to empower indecisive individuals by providing them with a user-friendly decision-making tool. In a world where choices abound and decision fatigue is common, our program aims to streamline the decision-making process across various aspects of daily life. By employing a simple question-based system, our program assists users in making choices related to entertainment, fashion, dining, travel, leisure activities, and morePurpose

###### 1.2 Document Conventions

The formatting style the guideline for font style,size and color ,structure and organization like subheading and heading and numbring

###### 1.3 Intended Audience and Reading Suggestions

This project is intended for developers that are interested in enhance and maintain the recommendation system and project manager that oversee the project schedule and testers and finally the users that will benefit from the project.

###### 1.4 Project Scope

The project give recommendations for the user according their prefrencaces as many people does not know what to wear what to eat where to travel and that program simply asks some questions and according to those questions gives recommendation and help the user as

### 2. Overall Description

2.1 Product Perspective

Our perspective is to help the user as much as possible by providing our program recommender software to decide and recommend different topics by algorithm

2.3 User Classes and Characteristics

Class food :is that asking some questions about user mood and provide recommendations

Class travel:provide places to travel depends on weather and mood and it for tourist or work

Class clothes: provide what to wear depending on the weather and colors

2.4 Operating Environment

Our project will operate in a web-based environment to ensure accsisability (hardware platform, operating system ,software components as python ,flask and javascript.

2.5 Design and Implementation Constraints

Profit Sharing: The application is constrained by the need to adhere to a profit-sharing model (50% for the system)

Integration with Local Restaurants: The success of the application depends on establishing integration with travel agency and restaurant

2.6 User Documentation

**User documentation will include:**

**User Manuals:** Guides for customers and restaurants on using the platform.

**On-line Help:** In-system assistance and FAQs.

**Tutorials:** Step-by-step guides for common tasks.

2.7 Assumptions and Dependencies

**Restaurant Participation:** Local restaurants will willingly join the platform and list menus for online orders.

**Profit Sharing Agreement:** The proposed profit-sharing model (25% for restaurants) will attract and retain restaurant partners.

**User Adoption:** Users will find the platform user-friendly, leading to widespread adoption.

Reliability of Third-Party Components: Assumption of reliable and accessible third-party components or services if utilized.

**Dependencies**:

**External APIs:** The project depends on stable external APIs for payment processing, location services, etc.

**Web Hosting Services**: Relies on reliable web hosting for continuous platform availability.

Regulatory Compliance: Dependent on adherence to data privacy and payment processing regulations.

**Database Management System:** The Project's functionality is tied to the performance of the chosen RDBMS.

**Technology Stack:** Success relies on the chosen technology stack (Python, Flask, HTML, CSS).

Internet Connectivity: Assumes reliable internet connectivity for users and restaurant partners.

## 4.External Interface Requirements

4.1 User Interfaces

**Logical Characteristics:**

**Web-Based Interface:** your personal recommender features a responsive web interface accessible on standard web browsers.

**Intuitive Dashboard**: Provide a concise overview of the dashboard's purpose, emphasizing its role in delivering personalized recommendations across different lifestyle categories.

**User-Friendly Ordering:** Customers experience a seamless and enjoyable experience as they receive personalized recommendations for all their needs

**Consistent Design Standards:** GUI standards adhere to modern design principles, ensuring a consistent and intuitive user experience.

**Error Handling:** Standardized error messages guide users in case of invalid inputs or system issues.

#### Software Components for UI:

**HTML and CSS:** Frontend development relies on HTML for structure and CSS for styling and some java script also.

**Python with Flask:** Backend logic and routing are implemented using Python with the Flask framework.

4.2 Hardware Interfaces

**Logical and Physical Characteristics:**

**Supported Devices:**

**Desktops and Laptops**: your personal recommender is compatible with standard desktop and laptop computers.

**Mobile Devices:** The platform is designed to be responsive and accessible on various mobile devices.

4.3 Software Interfaces

**Connections with Other Software Components:**

**Backend Technology:**

**Python with Flask:** Implements server-side logic, routing, and data management.

**HTML and CSS:** Frontend components for a responsive and interactive user interface.

**Relational Database Management System (RDBMS):** Stores user data ,recommendation data ,content and media, transaction records, and reviews.

**External Services:**

**Payment Processing API (Name and Version**): Integrates for secure payment transactions.

**Location Services API (Name and Version**): Utilized for geolocation-based functionalities.

4.4 Communications Interfaces

**Communication Functions:**

**Web Browser Communication Protocol (HTTP/HTTPS):** your personal recommender relies on standard web protocols for communication.

**Email Notifications:** The system may generate email notifications for sign up confirmations, reviews,updates, etc.

**Payment Processing API:** Utilizes secure communication protocols for financial transactions.

**Location Services API:** Communicates using established protocols for geolocation-based functionalities.

**Security and Encryption:**

**Data Encryption:** All sensitive data transmission, especially during financial transactions, will be encrypted using industry-standard encryption protocols**.**

**Secure Sockets Layer (SSL):** HTTPS will be enforced to ensure secure communication.

### 3. Other Nonfunctional Requirements

**Performance Requirements**

**Response Time:** The system should respond to user actions within 5 seconds to ensure a seamless user experience.

**Scalability:** The platform should handle a concurrent user load of at least 500 users without significant degradation in performance.

**Safety Requirements**

**User Data Safety:** The system must ensure the secure storage and transmission of user data, adhering to data privacy regulations.

**Transaction Safety:** Financial transactions must adhere to industry standards for secure payment processing.

**Security Requirements**

**User Authentication:** User identity authentication is required for both customers and your personal recommender application partners.

**Data Privacy:** The system must comply with data protection regulations to ensure user and recommendations data privacy.

**Software Quality Attributes**

**Usability:** The system should provide an intuitive and user-friendly interface, with a focus on ease of use.

**Reliability:** The platform should be available 99.9% of the time to ensure reliable service.

**Maintainability:** Codebase should be modular and well-documented for ease of maintenance.