**Software Requirements Specification for Timeshare Exchange Platform**

**Revision History**

| **Date** | **Version** | **Description** | **Author** | **Comments** |
| --- | --- | --- | --- | --- |
| 2024-03-21 | 1.0 | Initial draft | Phuoc Ha | SRS creation |

**1. Introduction**

This document specifies the requirements for a Timeshare Exchange Platform, designed to facilitate the exchange, rental, and management of timeshare properties. It aims to provide a seamless interface for guests, members, and admins to interact with the system.

**1.1 Purpose**

The purpose of this SRS document is to outline the specifications for the Timeshare Exchange Platform. It will serve as a guideline for the development team to understand the system's functionality and constraints.

**1.2 Scope**

The Timeshare Exchange Platform will enable users to list timeshares for exchange or rent, manage the exchange or rental process, handle payments, and provide administrative functionality for managing user accounts and generating reports.

**1.3 Definitions, Acronyms, and Abbreviations**

* **Timeshare**: Property with a divided form of ownership or use rights.
* **Guest**: A user who can browse listings without the ability to post or exchange timeshares.
* **Member**: A registered user who can list, exchange, or rent timeshares.
* **Admin**: An administrator who can manage listings, users, and platform settings.

**1.4 References**

N/A

**2. Specific Requirements**

**2.1 User Classes and Characteristics**

* **Guest**: Browse available timeshares.
* **Member**: Post timeshares, request exchanges/rentals, and manage their listings.
* **Admin**: Oversee platform operations, including user and listing management, fee collection, and report generation.

**2.2 Functional Requirements**

2.2.1 Guests

* Browse listings with filters.

2.2.2 Members

* Post timeshare listings for exchange or rent.
* Request to exchange or rent timeshares.
* Manage listings (edit, delete, update availability).
* View and respond to exchange/rental requests.
* Complete transactions and payments.

2.2.3 Admins

* Manage user accounts (create, suspend, delete).
* Approve, reject, or remove listings.
* Collect fees for listings.
* Generate reports on revenue, user activity, and listing statistics.
* Manage platform settings and categories.

**2.3 Non-Functional Requirements**

* **Security**: Protect user data and transactions.
* **Usability**: Intuitive UI for all user roles.
* **Performance**: Handle high volumes of listings and user activity.
* **Scalability**: Support platform growth.
* **Reliability**: Ensure platform availability and data integrity.

**2.4 External Interface Requirements**

* **User Interfaces**: Responsive web interface accessible on various devices.
* **Hardware Interfaces**: N/A
* **Software Interfaces**: Payment gateway integration for transactions.
* **Communications Interfaces**: Email notifications for users.

**2.5 System Features**

1. **Listing Management**: Allows members to create and manage their timeshare listings.
2. **Search and Filter**: Enables users to find timeshares based on location, availability, and other criteria.
3. **Exchange and Rental Process Management**: Facilitates the exchange or rental of timeshares, including request management and transaction processing.
4. **Payment Processing**: Integrates with payment gateways to handle listing fees and rental/exchange transactions.
5. **User Account Management**: Admins can manage user accounts, including creation, suspension, and deletion.
6. **Reporting and Analytics**: Generate insights on platform use, financials, and user engagement.

**2.6 Other Requirements**

* **Data Privacy**: Comply with data protection regulations.
* **Legal Compliance**: Adhere to laws governing timeshare exchanges and rentals.

**3. Appendix**

* **Glossary**
* **Acronyms**
* **Revision History**