Software Requirements Specification

for

**TRAVEL ITINERARY PLANNER**

**Version 1.0**

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# Introduction

1.1 Purpose

The purpose of this document is to provide a detailed report of the requirements for the Travel Itinerary Planner software. This document will serve as a reference for us(the group members )to build the software and for customers to understand the project's goals.

1.2 Scope

The Travel Itinerary Planner is a web-based application that allows users to plan, create, and manage multiple travel itineraries. It will provide features for users to input destinations, Hotels and preferences to generate customized itineraries.

1.3 Definitions

User: A person using the Travel Itinerary Planner software.

Itinerary: A detailed plan for a trip, including destination, dates, activities, and accommodations.

Admin: An authorized user responsible for managing the application.

# Overall Description

## Product Overview

The Travel Itinerary Planner is a standalone system that does not rely on external systems. It should be compatible with common web browsers.

## Product Functionality

The software will include the following key functions:

-> User registration and login.

-> Itinerary creation and editing.

-> Calendar usage for scheduling.

**2.3 User Classes and Characteristics**

Regular Users: Individuals who use the application to plan their trips.

Admin Users: Authorized personnel responsible for managing the application.

**2.4 Operating Environment**

The software will run on standard web browsers and should be accessible from desktop and mobile devices.

**2.5 Design and Implementation Constraints**

The system should be designed for high availability and scalability.

Security measures should be implemented to protect user data.

**2.6 Assumptions and Dependencies**

The software will not rely on third-party at the implementation of the current version.

Users are responsible for their own internet connectivity.

# Specific Requirements

3.1 External Interface Requirements

**3.1.1 User Interfaces**

The application will have an intuitive and user-friendly interface.

3.1.2 Hardware Interfaces

The software should run on standard desktop devices.

3.2 Functional Requirements

3.2.1 User Registration and Authentication

Users should be able to create accounts and log in securely.

3.2.2 Itinerary Management

Users should be able to create, edit, and delete travel itineraries.

Add and remove destinations, activities, and accommodations to the itinerary.

3.3 Performance Requirements

The system should respond to user actions within a reasonable time frame (e.g., <2 seconds for most interactions).

It should support a large number of concurrent users.

3.4 Software Quality Attributes

3.4.1 Reliability

The system should be available 24/7 with minimal downtime.

Data integrity should be maintained.

**3.4.2 Usability**

The interface should be intuitive and user-friendly.

Provide online help and support resources.

3.4.3 Maintainability

Code should be well-documented and modular.

Updates and maintenance should be straightforward.

**3.4.4 Scalability**

The system should be able to handle a growing user base.

Level 1 Data Flow Diagram:

