Jahahava

TravelPath
Project Vision Document

Version 1.0

Document Preparation

Name	Role	Approval (Signature)	Approval Date
Malak Mahdy	Project Technical Manager	Malak Mahdy	06/21/24
Kevin Castillo	Project Design Manager, Project Configuration Manager	Kevin Castillo	06/21/24
Chantey Baca	Project Test Manager	Chantey Baca	06/21/24
Mark Spangler	Project Manager	Mark Spangler	06/21/24
Austin Butrviengpunt	Project Risk Manager	Austin Butrviengpunt	06/21/24

Document Approvals

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Kevin Castillo	Project Design Manager	Kevin Castillo	06/21/24
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Chantey Baca	Project Test Manager	Chantey Baca	06/21/24
Austin Butrviengpunt	Project Risk Manager	Austin Butrviengpunt	06/21/24
Malak Mahdy	Project Technical Manager	Malak Mahdy	06/21/24
Mark Spangler	Project Manager	Mark Spangler	06/21/24
Dr. Kadir Demir	Project Sponsor		06/21/24

Revision History

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06/21/24	1.0	Initial Project Vision Document	Jahahava Development Team

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Project Vision Document

1. Introduction

1.1 Purpose of the Document

The purpose of this document is to collect, analyze, and define high-level needs and features of TravelPath. It focuses on the capabilities needed by the stakeholders and the target users, and why these needs exist. The details of how TravelPath fulfills these needs are detailed in the use-case and supplementary specifications.

1.2 Scope of the Document

The positioning, stakeholder and user description, product overview, product features, constraints, quality ranges, and precedence and priority are outlined in this Project Vision Document. Stakeholders are aligned on the project's goals, scope, and success criteria by a comprehensive guide. The project's purpose, intended benefits, and the specific problems it aims to solve are detailed in the document. The target audience, high-level requirements, constraints, and their priority are also described. By defining these elements, a clear framework for project planning, execution, and evaluation is provided by the document, ensuring that a shared understanding of the project's vision and expected outcomes is held by all team members and stakeholders.

1.3 References

1. Jahahava Project Proposal v1.0, 06/12/24, 5.1-5.17

1.4 Definitions, Acronyms, and Abbreviations

Term	Abbreviation / Acronym	Definition
User Interface	UI	The means by which the user and a computer system interact.
General Data Protection Regulation	GDPR	A European regulation of information privacy.

2. Positioning

2.1 Business Opportunity

The travel industry is witnessing a significant shift towards personalized and streamlined experiences, creating a lucrative opportunity for innovative solutions. Aiming to capitalize on this trend, TravelPath offers an all-in-one travel itinerary application that consolidates flight information, budget management, destination highlights, and personalized travel plans. With the growing number of travelers seeking seamless and organized travel experiences, TravelPath addresses a clear market need. By providing a user-friendly platform that simplifies travel planning, enhances trip management, and improves overall travel satisfaction, the potential to become an essential tool for modern travelers is presented by TravelPath.

2.2 Problem Statement

The problem of	an unorganized and stressful travel experience.
affects	travelers looking for personalized and seamless travel itineraries.

the impact of which is	unnecessary stress, inefficient planning, and overall an unsatisfying trip.
a successful solution would be	a user-friendly and convenient platform that secures flight details, budget management, destination highlights, and personalized travel plans, and improves overall travel satisfaction.

2.3   Product Position Statement

For	travelers seeking personalized and seamless itineraries.
Who	need an organized, stress-free travel planning experience.
The TravelPath	is a Java-based travel itinerary application.
That	simplifies travel planning by securing flight details, budget management, destination highlights, and personalized travel plans.
Unlike	traditional travel planning methods or separate travel applications.
Our product	simplifies the traveling process to assist travelers; creating a a carefree trip; solving common traveler issues such as managing flight details, and creating a personalized itinerary; enhancing trip management.

3.   Stakeholder and User Descriptions

The stakeholders and users involved in the project are profiled in this section, highlighting the key problems they aim to address with the proposed solution. Emphasized is the necessity of identifying and involving all relevant stakeholders in the Requirements Modeling process to ensure that users are adequately represented.

3.1   Stakeholder Summary

Name	Description	Responsibilities
End Users	Travelers or users of the application.	Use of the application for either themselves or a company.
Business Partners	Provide travel information that may be accommodating for application users. This includes hotels, Airlines, local businesses, etc.	Incorporate additional service offerings and promotional opportunities within the app.

3.2   User Summary

Name	Description	Responsibilities	Stakeholder

Admin	Managing and maintaining the system is the responsibility of individuals.	Monitoring system performance and resolving technical issues. Updating and maintaining database information. Manage users: Oversee user account setup, verify accuracy, and address any user issues or inquiries. Manage itinerary: ensure all travel details are accurately recorded and organized.	System Administrator
Travelers	Individuals or groups who are planning to travel	Inputting travel preference and details. Assessing and reviewing travel itineraries. Providing feedback on the system.	Primary user

3.3 User Environment

A mobile device with an internet connection is required by the user to download and use the application. Depending on how long the user is on a trip and using the application, the task cycle will vary. Since the information is user-inputted, any updates provided by the user shall be uploaded instantly at their discretion.

3.4 Summary of Key Stakeholder or User Needs

Key Problem	Combatting Issue	Our Solution
Fragmented Travel Information	Gathered by application users, their travel plans come from various sources and are put on a spreadsheet or even physical documents.	A single application that houses all travel plans for users/stakeholders and allows for a convenient way of organizing travel.
Ineffective Communication and Coordination	Problems coordinating travel plans or sharing information with other travelers may have been encountered by users.	By having an organized place that encompasses all of the travel plans, the application can be used to easily share plans with other travelers.
Limited Offline Access	Screenshots or printed details of their trip may have been taken by users due to the inability of being able to access some of their travel details without a stable internet connection.	Application would have all travel information updated and gathered for easy access when a stable internet connection is available, as well as latest update of travel details when internet connection is re-established.

3.5 Alternatives and Competition

Alternatives and competitions	Description	Strengths	Weakness
TripIt	Transportation and lodging organizer	Provides location-based services such as suggestions for recreational activities.	Most of their features cost $50 annually to access.
Google Travel	Travel organizer that integrates with Google services	Free to use. Integrates smoothly with Gmail and Google Calendar. Provides personalized travel recommendations and location-based suggestions.	No direct customer support. Data privacy concerns as it collects data from Google accounts.
Kayak	Metasearch engine for travel services	Offers a wide search for flights, hotels, car rental, and more. Provides price alerts and deals.	Advertisements and sponsored results can clutter the interface. Limited integration with other services.
Travel.com	Travel booking platform	Provides search options for flights, hotels, car rentals and more. User-friendly interface with easy navigation. Includes customer reviews and ratings.	May have occasional issues with booking confirmation. Customer support can be slow during peak times.

4. Product Overview

Designed as an independent and self-contained application, TravelPath was meticulously crafted to cater comprehensively to the needs of travelers. It enabled users to securely and efficiently store and manage their travel information, distinguishing itself from other travel management applications.

4.1 Product Perspective

Unlike other travel management applications, TravelPath focused on providing a robust platform where users could manually input and store all relevant travel details such as flight information, trip itineraries, accommodation details, and budget tracking and calculations. This emphasis on manual input allowed users to have full control over their travel information, ensuring accuracy and personalization. The application also incorporated features that streamlined the organization of travel documents, facilitated easy access to crucial information, and enhanced the overall travel planning experience. Through its user-centric design, TravelPath aimed to simplify travel management and provide a secure, efficient solution for travelers.

4.2 Assumptions and Dependencies

Basic proficiency in using mobile and web applications is assumed for users, allowing them to effectively input and manage their travel information. Internet access during the initial data entry phase is also expected for users.

Depending on the users' hardware and software, keeping up with updates for both their operating system and the application will be recommended.

4.3 Cost and Pricing

The cost structure for TravelPath involves several key components, primarily centered around development, maintenance, and distribution. Primary costs include software development, ongoing maintenance and updates, cloud or internal storage for user data, and security measures to protect user information. Adopted by TravelPath will be a freemium pricing model, offering basic features for free while providing premium features through a subscription or one-time purchase model. By allowing users to access essential functionality at no cost, with the option to enhance their experience through premium features, a sustainable revenue stream will be generated to cover costs and support continuous improvements and innovations.

4.4 Licensing and Installation

Critical considerations for TravelPath's development are licensing and installation issues. Used by the app will be a subscription-based licensing model for its premium features, requiring secure user authentication and account management. Robust systems for serializing subscriptions, managing user passwords securely, and handling user accounts efficiently will be necessitated by this. Compliance with various licensing regulations and privacy laws, such as GDPR, which will impact development and data management processes, must be ensured by the app. Installation requirements also play a significant role; the app must be easy to install across multiple platforms (iOS, Android, and web browsers), requiring seamless integration with respective app stores and ensuring compatibility with a wide range of devices.

5. Product Features

5.1 Feature 1 – Account Creation

Individual accounts for users to create their own profile for information storage.

5.2 Feature 2 – E-Ticket Storage

Store and easily access your transportation tickets.

5.3 Feature 3 – Trip Planning

Create and manage detailed trip itineraries, including activities, reservations, and appointments.

5.4 Feature 4 – Calendar Integration

Built-in calendar so that users can see an overview of their trip itinerary.

5.5 Feature 5 – Itinerary Sharing

Share itineraries with friends, family, or travel companions.

5.6 Feature 6 – Day-by-Day Schedule

Breakdown of daily activities with time and location details.

5.7 Feature 7 – Transportation Expense Tracker

Calculates the total expense for transportation costs.

5.8 Feature 8 – Lodging Expense Tracker

Calculates the total expense for lodging costs.

5.9 Feature 9 – Food and Drink Expense Tracker

Calculates the total expense for dining costs.

5.10 Feature 10 – Miscellaneous Expense Tracker

Calculates the total expense for miscellaneous costs.

5.11 Feature 11 – Budget Planner

Set budget limits for different categories, and track spending against these limits.

5.12 Feature 12 – Reservation Details Storage

Save booking confirmations, check-in/check-out times, and addresses.

5.13 Feature 13 – Local Transport

Information on local transportation options (car rentals, taxis, public transport).

5.14 Feature 14 – Document Upload

Upload and store travel documents such as passports, visas, and travel insurance.

5.15 Feature 15 – Offline Access

Access essential trip information without an internet connection.

5.16 Feature 16 – Custom Tags and Notes

Add custom tags and notes to trips and activities.

5.17 Feature 17 – Reminders

Set reminders for important dates and times (flight check-ins, hotel check-outs, activity start times).

6. Constraints

There are various constraints that are applicable to TravelPath. In regards to the design constraints, retaining the interface's quality regardless of the device used is vital. Ensuring the UI is still accessible for users with visual disabilities will also be constrained. Accessibility to the application without the need for an internet connection is an external constraint. Regulatory constraints regarding user privacy, especially for users in Europe, may be applicable.

7. Quality Ranges

The dependency on TravelPath for all travel information places significant responsibility on the development team, necessitating high-quality delivery across all levels. To ensure usability, quick loading of pages and features must be maintained. Additionally, language, fonts, and font sizes must be easy to read for all users. A high level of fault tolerance must be maintained by TravelPath to minimize user disruptions. Ensuring data integrity is a top priority, necessitating a robust storage system.

8. Precedence and Priority

Designed to ensure a seamless and comprehensive user experience is the priority of system features for the TravelPath application. Account creation, trip planning, day-by-day schedules, and reservation details storage are included as high-priority features. Forming the core of the application, these functionalities allow users to create and manage their profiles, detailed itineraries, and essential booking information. Critical features for providing easy access to transportation tickets and an overview of trip plans include e-ticket storage and calendar integration. Facilitating collaboration and ensuring users stay on track with important dates and activities, features like itinerary sharing and reminders enhance usability. Lower-priority features, such as custom tags, notes, or miscellaneous expense tracker, while useful, can be developed subsequently to enrich the user experience without compromising the application's core functionality.

1. Feature 1 – Account Creation
2. Feature 3 – Trip Planning
3. Feature 6 – Day-by-Day Schedule
4. Feature 12 – Reservation Details Storage
5. Feature 2 – E-Ticket Storage
6. Feature 4 – Calendar Integration
7. Feature 5 – Itinerary Sharing
8. Feature 17 – Reminders
9. Feature 16 – Custom Tags and Notes

10. Feature 10 – Miscellaneous Expense Tracker
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