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Your All-Inclusive Smart Travel Planner

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Agenda

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Introduction

SOLUTION

Our project addresses the common frustrations that arise when coordinating group travel, such as finding mutually agreeable dates, avoiding weather-related surprises, and managing itinerary planning efficiently. To tackle these challenges, we've developed a web application that integrates AI technology, leveraging IBM Watson’s powerful algorithms to provide smart scheduling suggestions."

ENGAGEMENT

Imagine planning a trip with friends, only to find out that everyone’s schedules clash. Now, picture a tool that instantly identifies the perfect travel dates, aligned with everyone’s availability and even considers the weather forecast. That’s exactly what our solution aims to achieve.“

KEY OBJECTIVES

Streamline Process---Our objective is to simplify the travel planning process by aggregating calendar data from all group members and presenting an easy-to-understand overview of their availability.

AI-Powered Suggestions---IBM Watson’s AI analyzes group members' calendars and generates optimal travel dates, considering individual preferences and potential conflicts."

Weather Integration---By integrating real-time weather forecasts, the app ensures that travel plans are made with weather conditions in mind, reducing last-minute surprises. "common pain points of coordinating schedules, managing activities, and booking accommodations, all within a single, intuitive interface.

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Project Objectives

--MAIN OBJECTIVES

Our main goal is to enhance the group travel experience by simplifying the coordination of schedules and making it easier for groups to plan trips without the usual hassles."

--AI INTEGRATION

Leveraging AI, our app provides intelligent scheduling solutions that take into account each group member’s availability and preferences, thereby eliminating potential conflicts."

--SECONDARY OBJECTIVES

In addition to improving user experience through a seamless and intuitive interface, we are committed to ensuring data security and privacy, particularly concerning users’ calendar information. This is critical as we handle sensitive personal data in the process.

Project Scope

The scope of our project includes developing a fully functional web app that allows users to connect their calendars, create groups, visualize availability, and receive AI-powered scheduling suggestions. The app will also include basic itinerary planning features where users can collaboratively build their trip schedule.

LIMITATIONS

While our initial focus is on core features such as scheduling and calendar integration, advanced booking functionalities or extensive social networking features are currently outside the scope. Future iterations may include these based on user feedback and demand.

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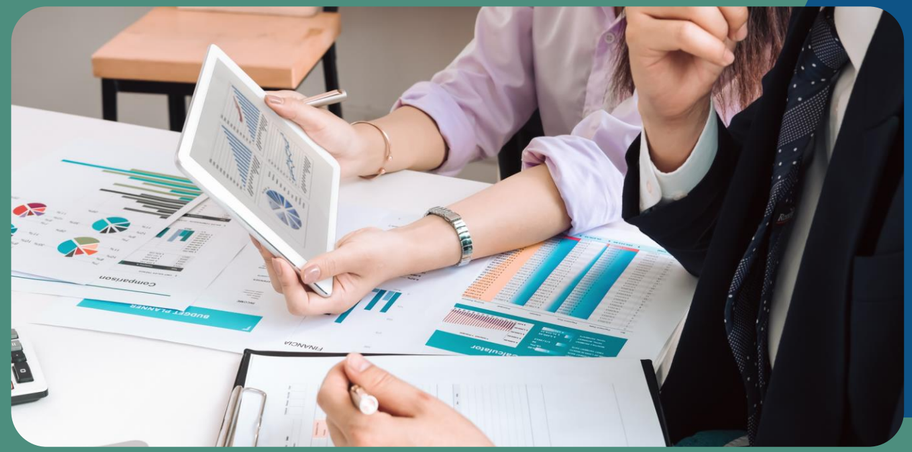
Background Context



- **Context 1**

Group travel planning is often a chaotic process, with people struggling to agree on dates, dealing with miscommunication, and encountering weather-related issues that could have been avoided. For instance, according to a recent survey, 60% of travelers report that scheduling conflicts are a major barrier to group travel. Our solution directly addresses these challenges by automating and optimizing the planning process.

- **Context 2**

With the rise of group travel among friends, families, and corporate teams, there’s a growing need for more efficient planning tools. Traditional methods, like endless email chains or scattered messages, are outdated and ineffective. Current tools like basic calendar apps or travel booking sites lack the integrated functionality required to streamline group planning. As group travel becomes more popular, our solution fills this gap by providing a dedicated, intelligent tool that enhances the planning experience.

Methodology

DEVELOPMENT PPROACH

We’ve adopted an agile methodology for this project, allowing us to iterate quickly based on feedback and make continuous improvements. We started with ideation, followed by detailed design and development phases, and we are now in the testing phase where user feedback is crucial.

IBM Watson’s AI models play a crucial role in our solution. They analyze the aggregated calendar data to provide scheduling suggestions that minimize conflicts and maximize convenience. Our technical stack includes robust API integrations with major calendar providers like Google Calendar, using OAuth for secure authentication and data access.

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Timeline

IDEATION

Our timeline began with the ideation phase, which took two weeks, followed by design and initial development that spanned four weeks. We're currently in the testing phase, which we expect to complete in the next two weeks. Post-hackathon, we plan to refine the app based on feedback and prepare for a potential market launch.

MILESTONE

During the hackathon, we successfully developed a working prototype, integrated IBM Watson for AI-driven suggestions, and completed initial user testing, which provided valuable insights for further refinement.

FUTURE GOALS

Our post-hackathon goals include finalizing the user interface, adding more advanced features like in-app communication tools, and conducting a beta launch to gather more user feedback. We also aim to explore partnerships with travel booking platforms for future integration.

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Team Members

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ANKITA

Team Leader

WILSON

PROJECT COORDINATOR

PRANAVI

DESIGN LEAD

UNAITH

BACKEND DEVELOPER

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Risks and Mitigations

- **Risks**

---Data Privacy and Security
---AI Model Inaccuracy
---API Integration Failures
---User Adoption and Engagement
---Project Timeline Delays

- **Mitigations**

---implement encryption, secure authentication, regular updates, and conduct security audits.
---Continuously improve AI models with user feedback, allow manual adjustments, and incorporate a feedback loop.
---Use fallback mechanisms, monitor API updates, and establish stable partnerships with API providers.
---Conduct user research, design an intuitive interface, offer incentives, and develop a strong marketing strategy.
---Use agile practices, set realistic milestones with buffer time, and ensure effective team communication.

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Benefit Of The Project

123+

1000+

This project streamlines group travel planning by using AI to analyze everyone's schedules, offering optimal travel dates, and integrating real-time weather updates to avoid surprises. It saves time, reduces miscommunication, and ensures a smoother, more reliable travel experience.

Additionally, the app fosters collaboration with shared itineraries and real-time updates, enabling group members to plan together seamlessly. Its intuitive interface and secure calendar integration make it an essential tool for hassle-free group travel.

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THANK YOU