**Project Description**

"Inn Doors" is an innovative reservation app that aims to simplify the Airbnb booking process for both hosts and guests. Our app has a simple interface that lets guests easily search for and book accommodations, view property details, read reviews, and manage their reservations. For hosts, "Inn Doors" includes comprehensive tools for listing properties, managing bookings, communicating with guests, and tracking earnings. To improve user satisfaction, the app integrates secure payment processing, real-time availability updates, and personalized recommendations.

**Requirements Summary**

This requirement summary outlines the critical features and functionalities required to ensure that "Inn Doors" meets the needs of both hosts and guests, delivering a secure, efficient, and enjoyable experience for all users. The requirements are as follow:

* **User roles**
  + - Guest: Guests can search for listings, make reservations, communicate with hosts, and leave reviews.
    - Hosts: List properties, manage bookings, communicate with guests, accept payments, and manage reviews.
* **Core Features**
  + Guest Features
    - Search: The ability to find listings based on location, dates, price, amenities, property type, and other criteria.
    - Listing Details: See detailed descriptions, high-quality photos, amenities, house rules, and host information.
    - Booking: A secure booking system with online payment options. before, during, and after reservations.
  + Host Features
    - Search: The ability to look for listings based on location, dates, price, amenities, property type, and more.
    - Listing Details: See detailed descriptions, high-quality photos, amenities, house rules, and host contact information.
    - Booking: A secure booking system that accepts online payments. communicate before, during, and after their reservations.
* **Non-Functional Requirements**
  + - Performance: The app should be responsive and load quickly across all devices.
    - Usability: Both guests and hosts should find the app easy to use.

**User Scenario**

Jose and Paolo planned a trip to Davao and wanted to plan everything in advance. They used Inn doors Reservation app to find a suitable place for their stay

**Prototype Description:**

Our smart calendar software prototype combines task management with tailored recommendations to enhance everyday efficiency. Professionals, students, and everyone else wishing to efficiently manage their daily work and schedules should use this program.

(example UI)

**Rationale:**

The INN DOORS prototype that was chosen was chosen to fulfil the primary requirements mentioned in our project description: making hotel reservations more convenient and offering tailored suggestions to improve traveler experiences for a wide range of users. This strategy perfectly fits the needs of developing an application that is easy to use, incredibly functional, and adaptable and that uses artificial intelligence (AI) to deliver customized booking solutions.

**Advantages:**

**Comprehensive Features:**

* User authentication: Provides safe access to confidential information.
* AI-driven recommendations that are specifically tailored to booking choices improve the whole travel experience.
* Booking List Integration: Combines reservation scheduling and administration in a seamless manner.
* User-Friendly Interface: Reduces learning curves and increases user acceptance with intuitive design.
* Notifications and Reminders: Prompt alerts help consumers stay on course.
* Data synchronization: Ensures uniformity between many devices.
* Customization Options: Enhances user happiness by enabling consumers to customize their experience.
* With the use of comprehensive data, analytics and insights enable consumers to monitor and enhance their booking preferences.

**Improved Experience for Users:**

* By combining AI with data visualizations, a dynamic and adaptable tool that changes depending on the preferences and requirements of the user is produced.
* Professionals and tourists alike may benefit from customization and simple navigation.

**Disadvantages:**

**The intricacy of implementing AI:**

It might take a lot of money and experience to develop and improve AI algorithms for tailored suggestions.

**Designing User Interfaces:**

Careful design and usability testing are necessary to create an intuitive yet comprehensive interface that covers all needed functionality without overwhelming the user.

**Device Interoperability:**

It might be incredibly challenging to guarantee flawless synchronization and constant performance across different devices and operating systems.

**Modifications to the requirements:**

We did not change any of our original specifications or usability criteria when developing our prototype. With careful planning, we made sure that the initial requirements—which included booking analytics, AI-powered personalized recommendations, secure user authentication, smooth integration with booking lists, an easy-to-use interface, notifications, and reminders—adequately met the needs of our user base and project objectives. Because of the strength of our design and the clarity of our goals, our prototype satisfied every need without the need for modifications, guaranteeing a reliable and efficient development process.

**Initial Evaluation Plan:**

To test the prototype, Mapua Malayan Colleges Mindanao students will be invited; the objective is to enlist 18 participants. Students who agree to participate will get a Google Forms survey after their assessment session. The survey will have not just usability criteria based on the 10 Usability Heuristics but also questions created by the development team to evaluate additional significant elements. The survey will employ a Likert scale to gather and assess input, allowing for a comprehensive analysis and evaluation of the students' answers. The usefulness of the features and user interface of the prototype will be better understood thanks to these comments. The outcomes will play a crucial role in directing additional enhancements and guaranteeing that the finished product satisfies the requirements.