

**IT314 Software Engineering**

**Group: 23**

**WanderWiz**

**(Automatic Itinerary Planner)**

1. **User Profile:**

* As a user, I want to be able to create a profile and login into an existing profile so that I can access and manage my account.

**Acceptance Criteria:**

* Users can create a profile with personal details and travel preferences.
* User can login into a profile with correct credentials

**Failure:**

* If the user's profile data is not properly saved or associated, their personalized recommendations and past travel experiences might not be considered in itinerary planning.

1. **Itinerary Generation and preference:**

* As a user, I want the software to generate a detailed itinerary for my trip based on my preferences such as travel dates, budget range, types of activities I enjoy etc so that the software can personalize my travel itinerary according to my needs.

**Acceptance Criteria:**

* The software takes user preferences such as travel dates, budget range, activity types and generates an itinerary.
* Itinerary includes a variety of activities, attractions, dining options, and accommodations.

**Failure:**

* The software fails to accurately interpret user preferences, resulting in a mismatch between the generated itinerary and the user's desired activities or budget.

1. **Customization:**

* As a user, I want to be able to customize the generated itinerary, modify suggested activities, change the order of events, and add my own preferences so that I can tailor the itinerary to better fit my desires.

**Acceptance Criteria:**

* Users can edit, rearrange, or remove activities from the generated itinerary.
* Ability to add personal notes or custom activities to the itinerary.
* Customized itinerary updates reflect the changes made by the user.

**Failure:**

* The user attempts to remove or rearrange activities, but the software experiences a syncing error, causing discrepancies between the user's customizations and the actual itinerary.

1. **Collaborative Planning:**

* As a group traveler, I want the itinerary planner to allow multiple users to collaborate on the same itinerary, making it easy for us to plan and coordinate activities together.

**Acceptance Criteria:**

* Users can invite others to collaborate on the itinerary.
* Collaborators can input preferences, vote on activities, and suggest changes.

**Failure:**

* If the collaborative editing system does not handle concurrent changes properly, users might overwrite each other's edits and result in data loss or confusion.

1. **Offline Access:**

* As a user, I want to be able to access my itinerary even when I'm offline so that I can follow my plans without needing a constant internet connection.

**Acceptance Criteria:**

* The software allows users to download the itinerary for offline access.
* Offline itinerary includes all details and changes made prior to disconnecting.

**Failure:**

* The downloaded offline itinerary fails to display properly due to a technical glitch, leaving users without access to their plans while offline and causing potential confusion during their trip.

1. **Integration with Booking Platforms:**

* As a user, I want the software to integrate with travel and booking platforms so that I can directly book flights, accommodations, and activities from within the itinerary, making the booking process more convenient.

**Acceptance Criteria:**

* The software connects with popular booking platforms.
* Users can view available flights, accommodations, and activities etc. within the itinerary.

**Failure:**

* Integration with accommodation booking platforms breaks down, preventing users from making reservations directly from the itinerary, causing booking delays.

1. **Transportation Options:**

* As a user, I want the software to suggest transportation options between different locations within the itinerary, including details about public transportation, ridesharing services, and estimated travel times so that I can efficiently navigate between places.

**Acceptance Criteria:**

* The software provides details about available transportation options including public transit, rideshares, and walking routes.
* Estimated travel times and costs are included.
* Users can choose and add preferred transportation options to the itinerary.

**Failure:**

* If the estimated travel times are not updated based on real-time traffic information, the user might end up with inaccurate timings for their activities.

1. **Budget Tracking:**

* As a traveler, I want the automated itinerary trip planner to help me keep track of my expenses and compare them to my budget, so that I can manage my finances during the trip.

**Acceptance Criteria:**

* The user should be able to input their travel budget.
* The system should calculate expenses based on activity costs, accommodation, and transportation.

**Failure:**

* If the budget tracking calculations are incorrect or not updated properly, the user might overspend without being aware of it.

1. **Synchronization with Calendar:**

* As a user, I want the option to sync my generated itinerary with my personal calendar app so that I can manage my trip schedule alongside my other commitments.

**Acceptance Criteria:**

* The software offers an option to sync the itinerary with popular calendar apps.
* Itinerary events are added to the calendar with accurate timeframes and details.
* Updates or changes to the itinerary are reflected in the synced calendar.

1. **Feedback and Ratings:**

* As a user, I want the option to provide feedback and rate the suggested activities and services, helping the trip planner improve its recommendations for future travelers.

**Acceptance Criteria:**

* The software collects feedback after each trip, including activity ratings and user comments.
* Over time, the software adapts its recommendations based on user feedback.

**Failure:**

* The feedback collection mechanism malfunctions, preventing users from providing input on their experiences.

1. **Privacy and Data Security:**

* As a user, I want assurance that my personal information and travel plans are kept secure and that the software complies with privacy regulations to ensure my sensitive data is protected.

**Acceptance Criteria:**

* The software stores user data securely, using encryption and best practices.
* Privacy policy and terms of use are clearly communicated to users.
* The software complies with relevant data protection regulations.

**Failure:**

* The software experiences a data breach.
* The software integrates with third-party services that have vulnerabilities, and attackers exploit these weaknesses to gain access to user data stored within the application.

1. **Language and Culture Tips:**

* As a traveler visiting a new place, I want the itinerary planner to provide me with language tips, cultural etiquette, and basic phrases, helping me navigate interactions with locals.

**Acceptance Criteria:**

* The system should store and retrieve language and culture information for each destination.
* The language section should include basic phrases, greetings, and essential communication tips.
* The culture section should provide insights into local customs, traditions, and etiquette.

**Failure:**

* The cultural tips provided by the software lack sensitivity.
* The software offers outdated cultural information, such as recommendations for events or practices that are no longer relevant.