

## PM6 - Team 4

### 1. Did you fulfill your value proposition? Explain.

Our application "SeattleTravelKit" effectively fulfilled our value proposition by simplifying travel planning. Integrating services like Google Maps, Yelp, and Airbnb into one platform, it offered a one-stop solution, replacing the need for multiple apps and cumbersome travel books. Utilizing database technologies, the app provided timely, local tips and streamlined booking processes, enhancing convenience and personalization for tourists. This integration addressed the challenges of traditional travel planning, offering a more efficient and user-friendly experience.

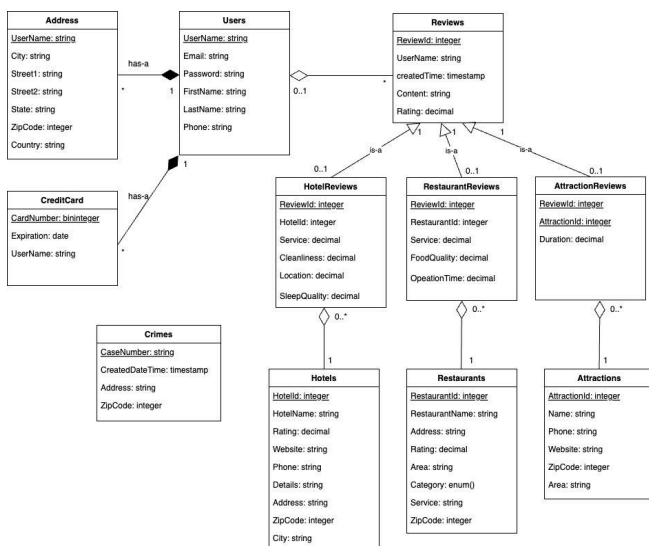
### 2. List what you initially planned to deliver (as stated in Milestone 1), and compare to what you actually delivered.

In Milestone 1, we outlined several key features that we aimed to deliver in our "SeattleTravelKit" app. We successfully implemented an advanced feature, which was the integration of crime statistics and safety information for different neighborhoods and destinations. This allowed us to provide safety ratings for each suggested location based on historical crime data. This feature enhanced the utility and attractiveness of our app by providing users with crucial safety information to aid their travel decisions.

The dataset used was smaller than anticipated, particularly in the areas of reviews and hotel listings, which limited the depth of information available to users.

The functionality to link directly from the pages of attractions, hotels, and restaurants to their respective reviews was not implemented. This lack of direct linkage made navigation within the app less seamless and potentially reduced user engagement and satisfaction.

### 3. Your final UML. Include a description of what changed in your UML



Throughout the project, we made two significant changes to our UML diagram:

Renamed PostalCode to ZipCode to align with common naming conventions. This change was made in Milestone 2 to improve clarity and consistency across the application.

Changed Zipcode from a string to an int during Milestone 4 to better suit the primary use of numeric zip codes in domestic locations, simplifying data handling and integration with other systems.

Reason for Changes: These adjustments were made to enhance usability and ensure the application's data structures were optimally

designed for functionality and integration requirements.

#### **4. What went well?**

##### **- Initial Design Discussions:**

Our initial design discussions were comprehensive, leading to a robust foundation for our UML diagram. This thorough early planning resulted in minimal changes needed later in the project. Specifically, we effectively decided on linking Zipcode to the hotel and restaurant tables during the first week, which streamlined our database structure.

##### **- Team Collaboration:**

Our teamwork was highly effective, facilitated by the use of Microsoft Teams to create a dedicated project channel. This setup helped us keep track of work and store documents efficiently. We utilized Google Docs for meetings and document sharing, which enhanced our collaboration.

#### **5. What were the biggest challenges?**

During Milestone 4, integrating the DAO class into the servlet presented significant challenges. The process was complicated by numerous bugs that emerged when merging the code. Each team member had slightly different variable names and structures in their data models, which led to conflicts and inconsistencies when combining our efforts. This issue required extensive debugging and coordination to ensure that all components of the application worked seamlessly together.

#### **6. What would you do differently**

A valuable improvement for our app would be its integration with Google Maps. By utilizing latitude and longitude data, we could enhance the app's functionality to recommend nearby hotels and restaurants and display the distance to these locations for users. This integration would make the app more interactive and provide travelers with practical, location-based insights, significantly improving the user experience.

#### **7. What do you plan to do next?**

We aim to upgrade the app's frontend design by introducing more attractive elements like buttons and a navigation bar. We plan to incorporate user authentication features to enable login and logout capabilities, as well as adding a feature for users to 'like' and bookmark their preferred hotels and restaurants. Furthermore, we intend to employ Amazon S3 for cloud-based data storage, enhancing both the accessibility and security of our data. These enhancements are designed to boost user engagement and enhance the overall functionality of the app.