

CS335 Project

GROUP57: TOURISM

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1 Introduction

1.1 Participants

Ellen Donovan: 21450942- I created an equal amount of user stories as the others. I created my own diagrams to go with my user stories and then took the others diagrams and combined them together to make the overall class, use case and architectural diagram, along with adding my own sequence diagram.

Sam McGrath: 22427364- I created an equal amount of the user stories and did the class and user case diagrams which were then implemented into the final full system diagrams. I also made a wireframe of the entire system which some of has been included in the document. Finally, I done up the Slideshow for to be presented in the video.

Michal Olszewski: 22749799- I created an equal amount of user stories as well as the class, use case and sequence diagrams derived from them which were used in the final system diagrams. I have also created the test case items defined from all our user stories and sequence diagrams.

1.2 Abstract

In this project we focused on developing an online system for tourism, aiming to provide a system for tourist to plan, book and review their travel experiences. To achieve this goal, we used UML along with UI (user interface) design to model and visualize the systems structure.

The use case diagram served as a guide for the UI by showing the systems functionalities from the perspective of different actors involved with the system.

The class diagram complements the UI design by detailing the systems object-oriented design, including the classes and attributes and relationships between the user and facilities.

The sequence diagram provides insight into the dynamic behaviour within the system by showing the interactions between the objects during user scenarios.

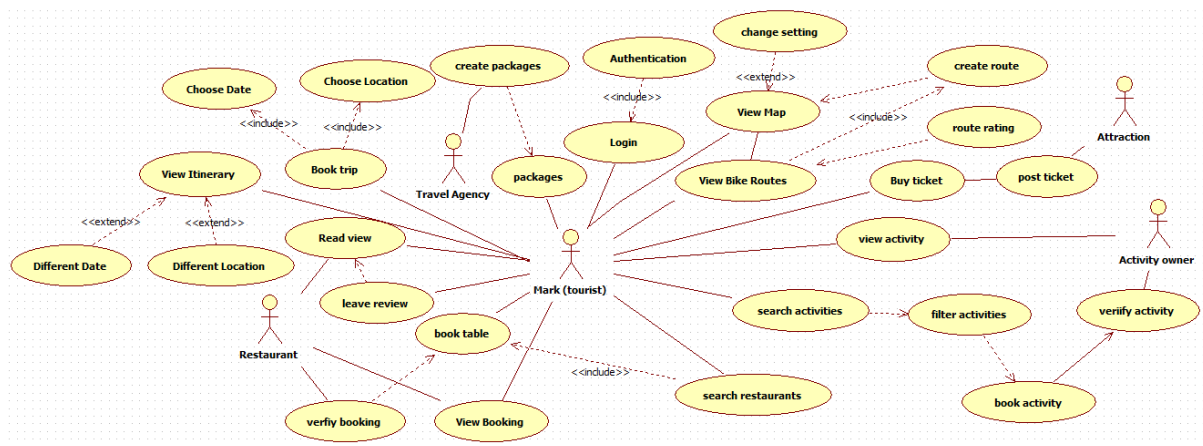
We than used UI and test cases to verify the usability of the system. Test cases were created based on sequence diagrams defined from the user stories, to make sure the user interface meets the requirements.

1.2 User Stories

1. As a bike rider, I want to be able to create and view bike trails while at my destination. I would like a single website where I can share my favourite routes with other cyclists and find new trails to explore.
2. As a tourist, I want a single place to buy tickets to local attractions. Doing so I can plan my sightseeing activities without visiting other websites.
3. As tourist, I want to review and rate the bike trials that I created or found. I want to be able to share my experiences and help other tourist cyclists choose a good trail.
4. As a tourist I want a tourism system where I can create an account. Doing so would make saving destinations and bookings much easier.
5. As a tourist, I want to save and book destinations on the tourism system, so that I can keep track of places I want to visit and easily make reservations for.
6. As a tourist, I want to access my Itinerary on the tourism system, so that I can view and alter the dates/ location of my destination.
7. As a tourist, I want to view travel packages made by travel agencies on the tourism system, so I can easily plan my trip.
8. As a tourist, I want to book tables at a restaurant through the tourism system, so I can secure reservations for dining experience on my trip.
9. As a restaurant owner, I want to have tourist leave reviews on my business, so other tourist can read this review and I can receive feedback on my service.
10. As a tourist, I want to use the search filter on the tourism system to find and book activities, so that activity owners can add and confirm my booking.

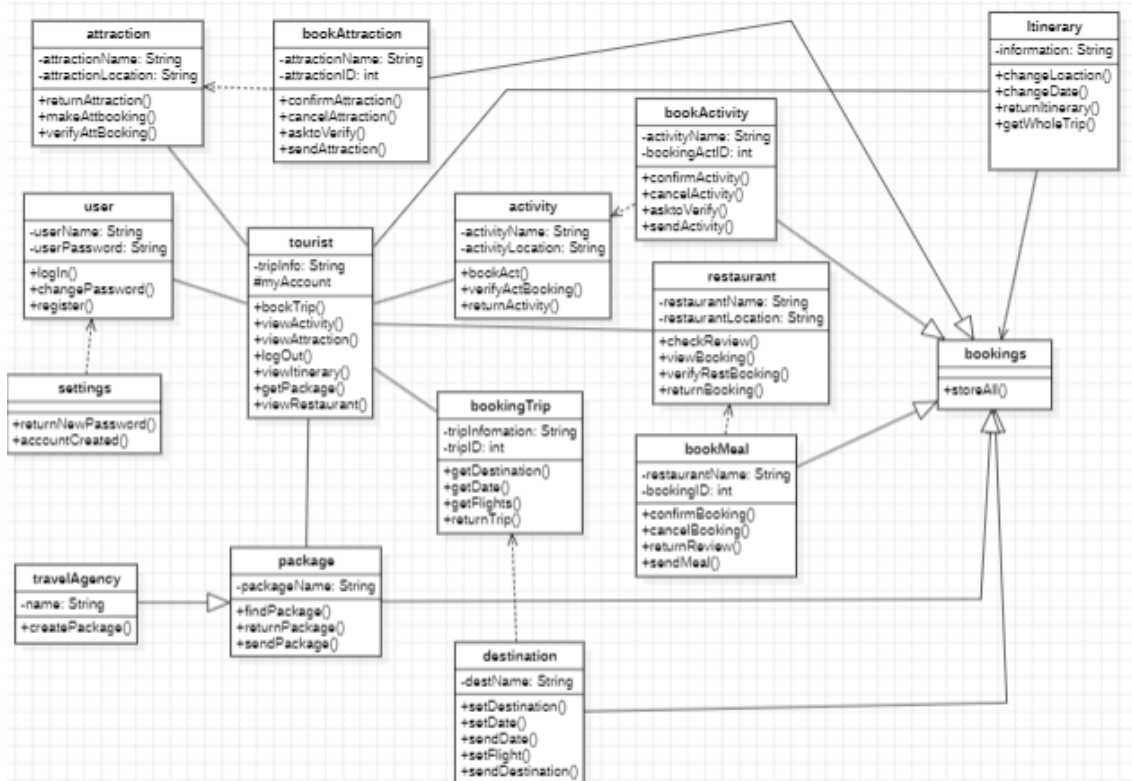
2 Diagrams

2.1 Use Case Diagram

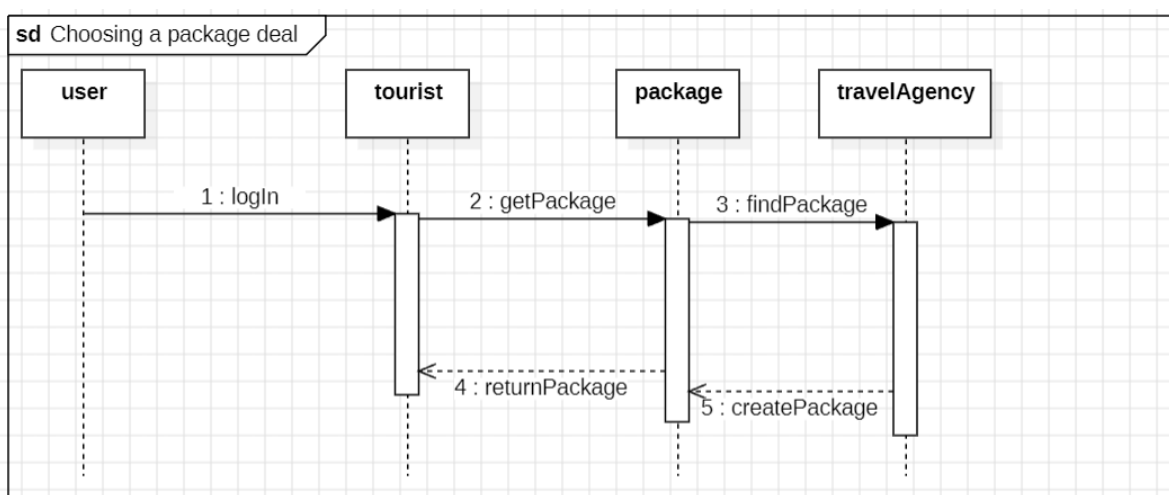
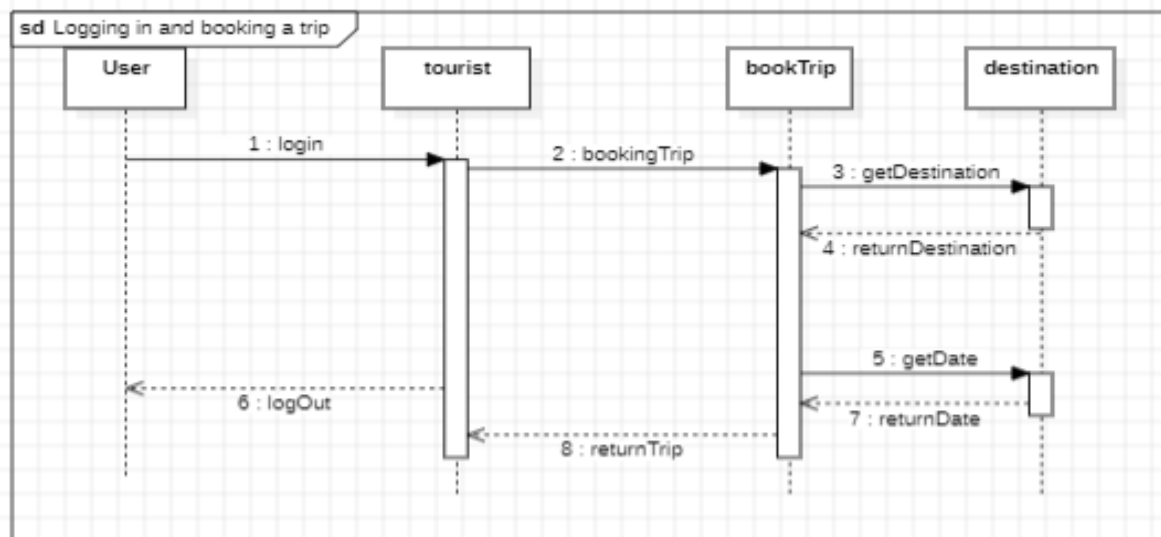
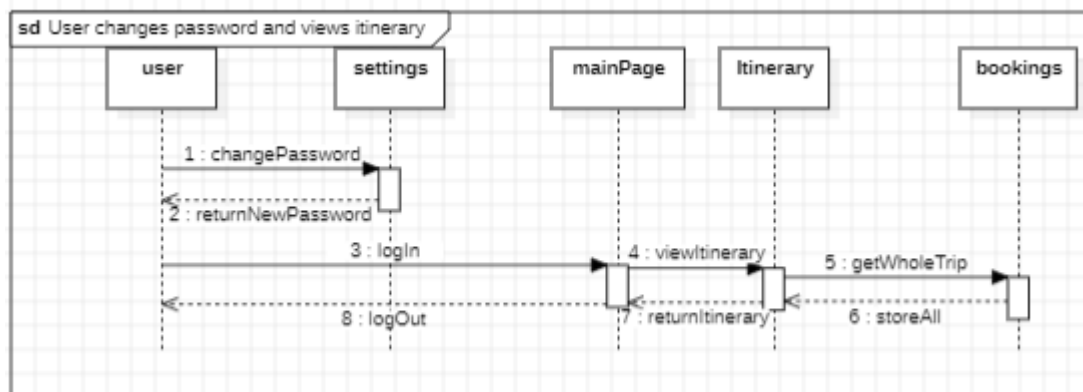


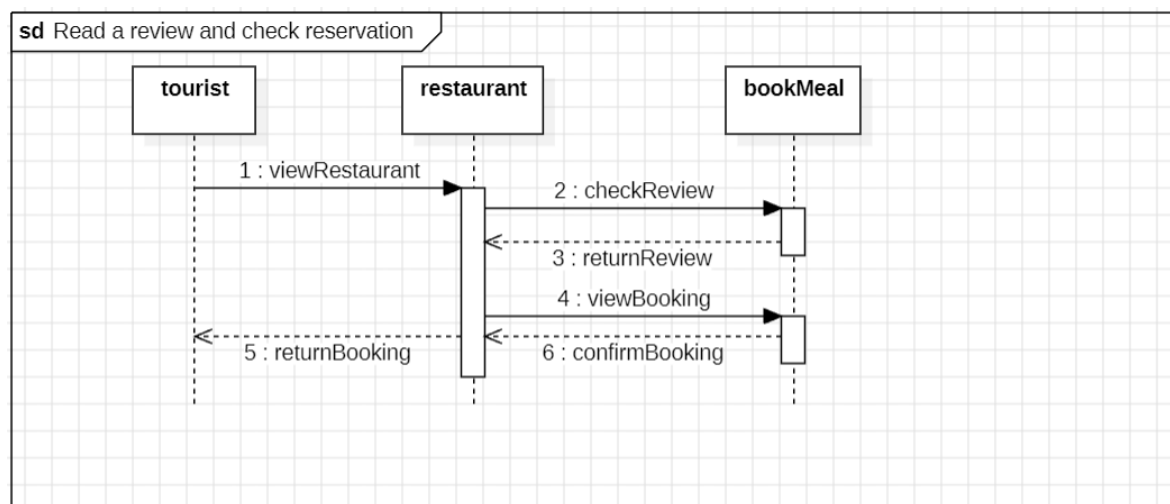
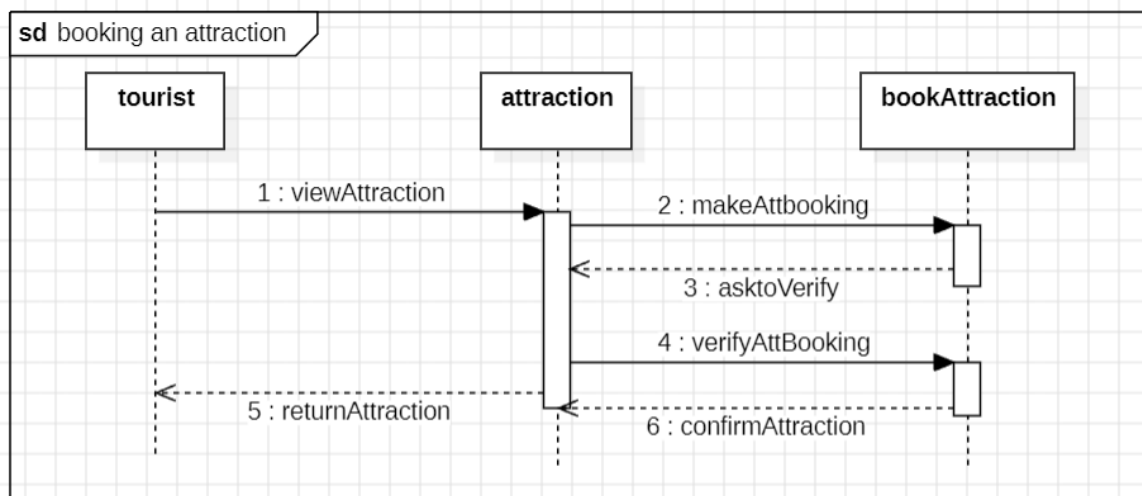
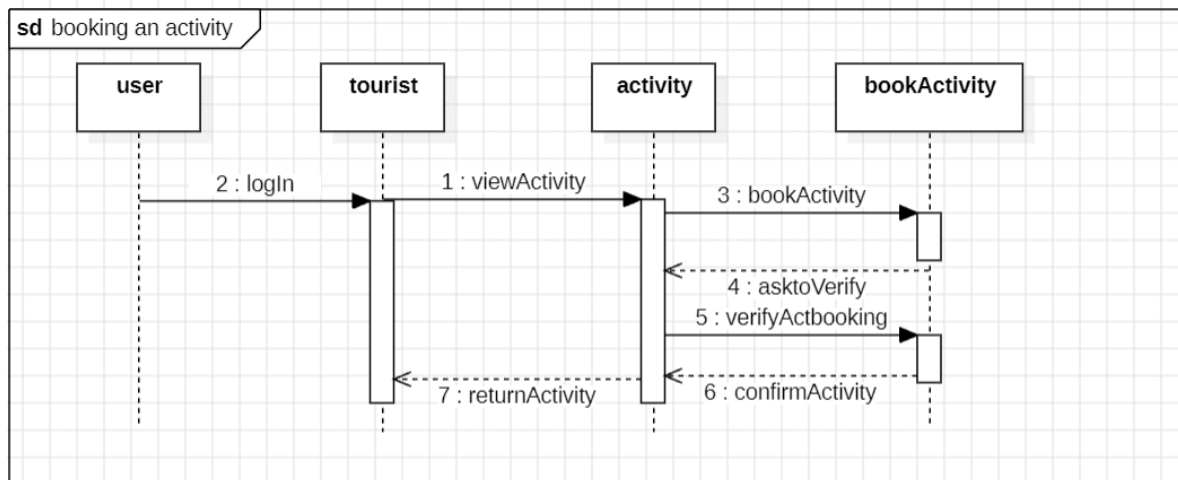
2.2 Class diagram

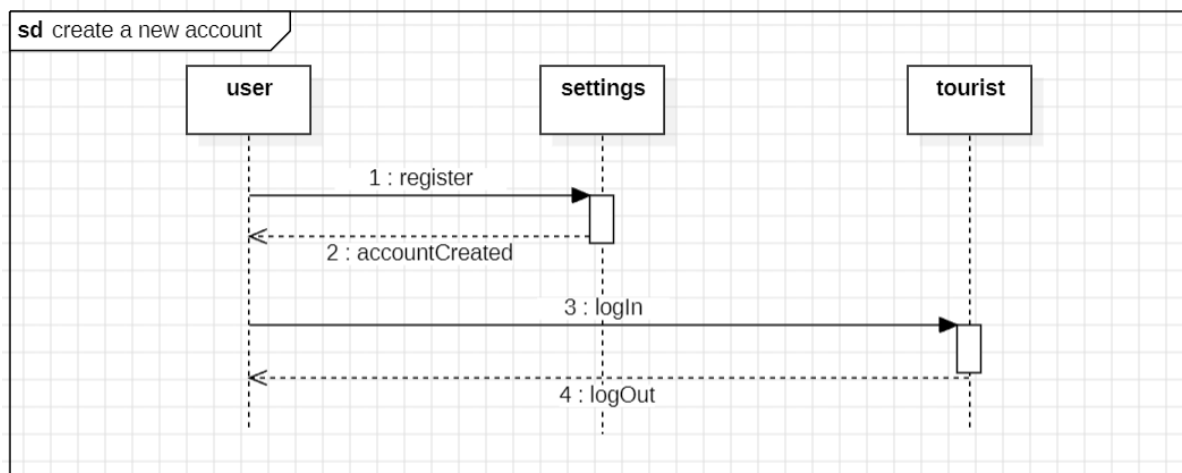
The class diagram presents the functional requirements for the application with features of the website shown as classes, each with separate functions. For example, a user of the website, after logging in can either book trips, view attractions or view their itinerary. Each of these functions correspond to different classes in the diagram which give the user the information they are searching for.



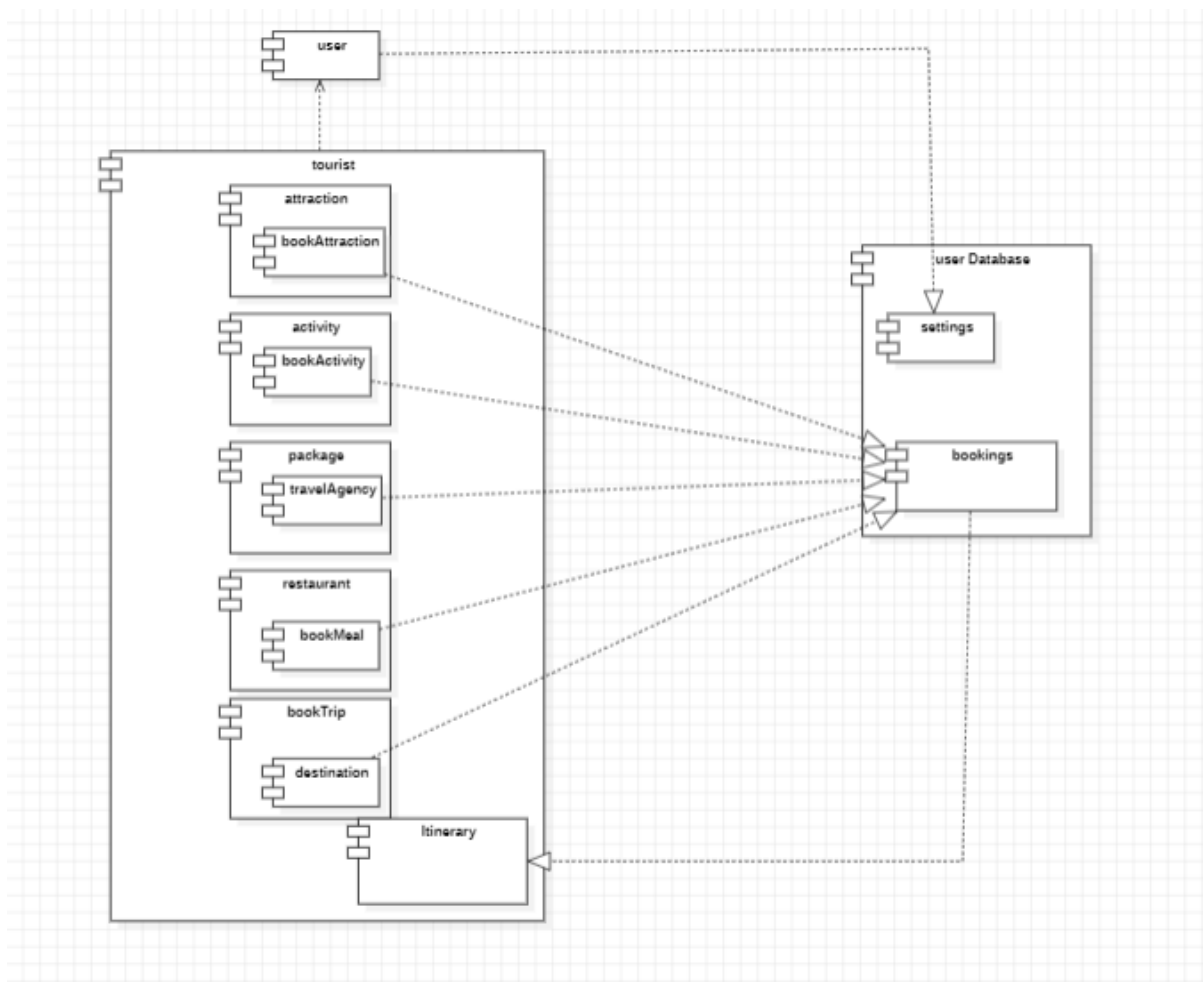
2.3 Sequence Diagrams







2.4 Architectural Diagram

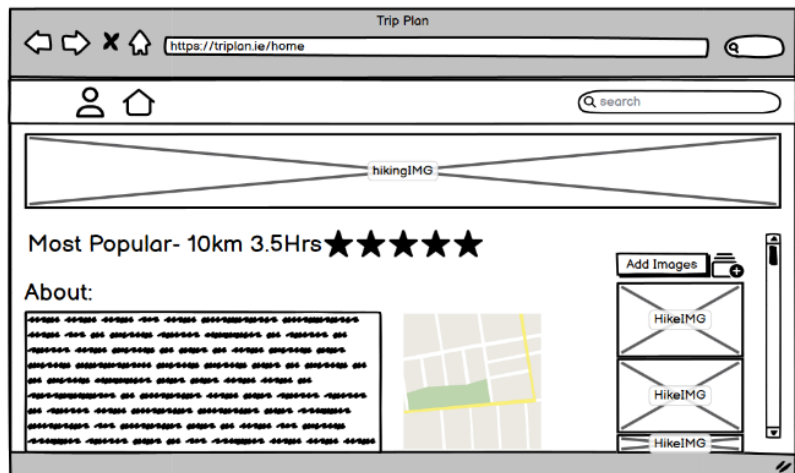
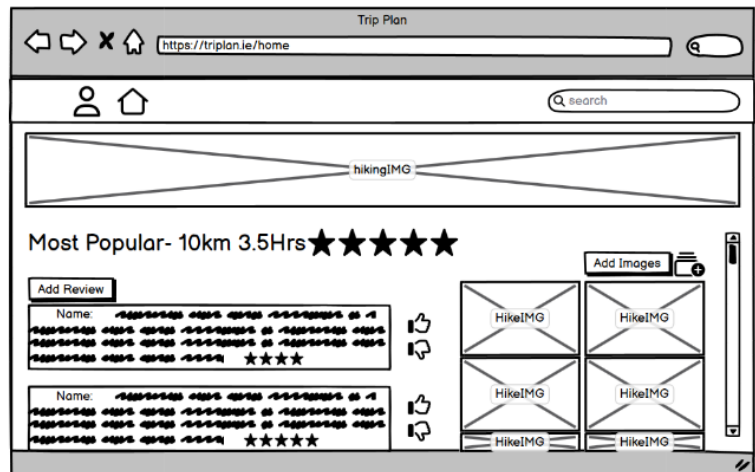


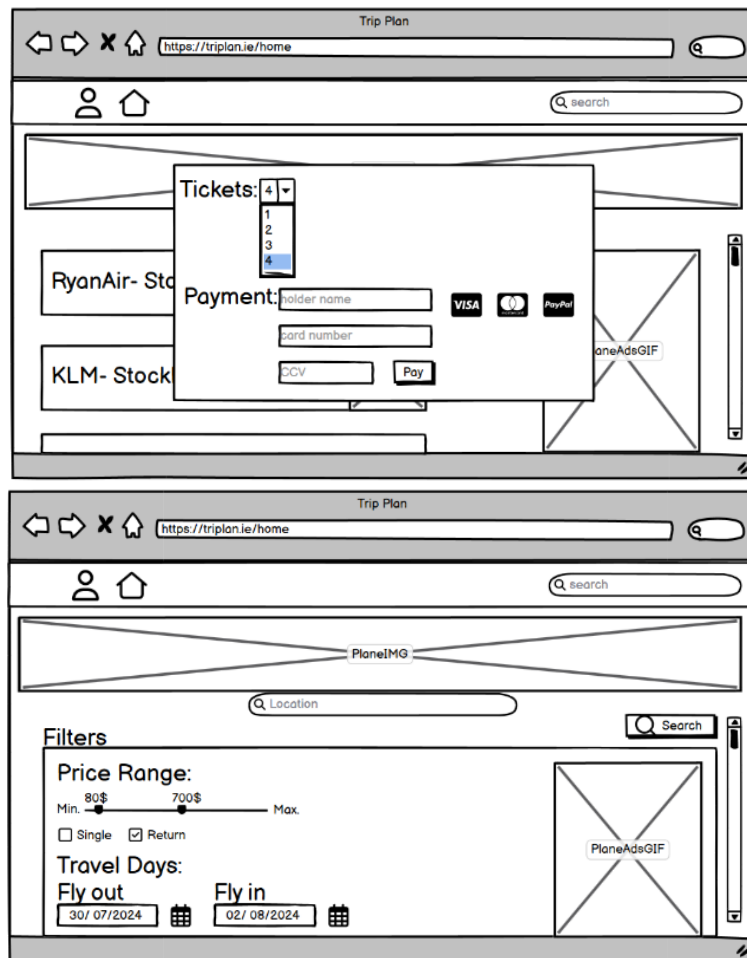
3. User Interface Design

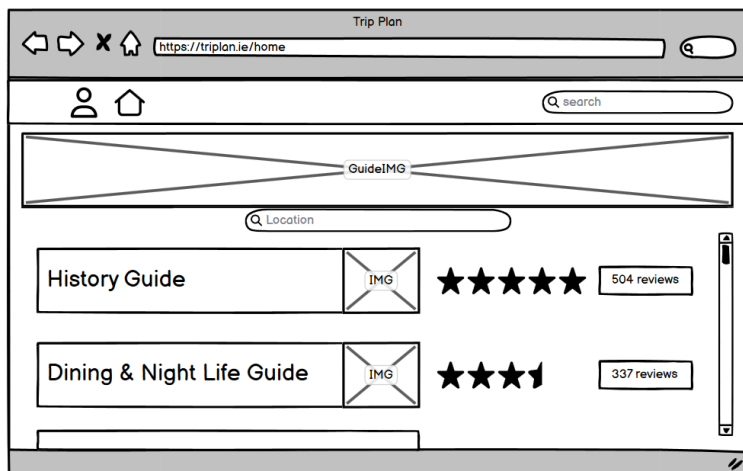
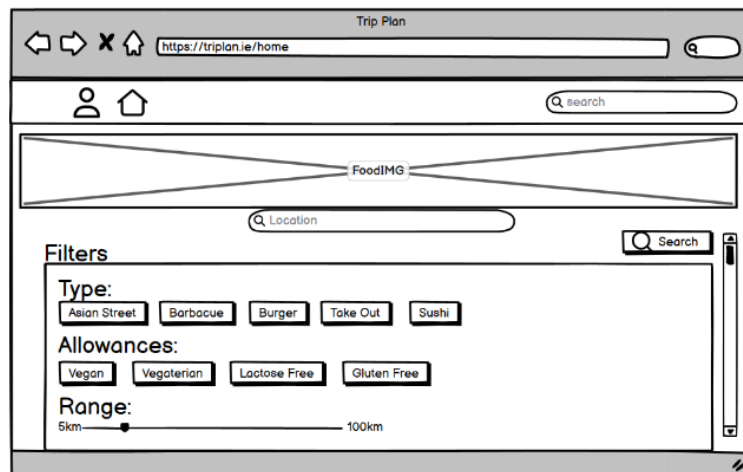
The image displays two wireframe screenshots of a web application titled "Trip Plan".

The top screenshot shows the "Sign up" page. It features a browser window with the URL "https://tripplan.ie/home". The page has a navigation bar with a user icon, a home icon, and a search bar. The main content area is titled "Sign up" and contains a form with the following fields: "Username", "Email", "Phone numbe", "Password", and "Confirm Password". A "Confirm" button is located at the bottom right of the form.

The bottom screenshot shows the "Intinerary" page. It also features the same browser window and navigation bar. The main content area is titled "Intinerary" and contains three sections: "Flights:", "Hotels:", and "Acitivities:". Each section contains placeholder text, represented by lines of text.







4. Test Cases

System testing is required in software development as to make sure no issues have gone unnoticed and to minimize problems before deployment. Test cases were defined by looking at our user stories and sequence diagrams to simulate possible interactions between elements of the interface. Below are the resulting Test Case Items.

No.	Test Case	Test Step	Test Data	Expected Result	Actual Result
1.	Check if as user I can access my settings	Verify that navigating to settings displays user's settings	User ID	Return settings	PASS
2.	Check if as user I can access my map & saved routes	Verify that navigating to map display's user's map & saved routes	User ID	Return map & settings	PASS
3.	Check if as user I can access my bought tickets	Check if user's tickets are displayed when logged in as user	User ID	Return user's tickets	PASS
4.	Check if as user I can view available guides & tickets	Check if listed tickets are available as displayed	User ID	Return available tickets	PASS
5.	Check if as user I can view other user's reviews	Check if reviews are displayed when logged in as other user	User ID	Return reviews	PASS
6.	Check if as user I can contact ticket seller	Write message to ticket seller in application	User ID, Vendor ID	Return vendor's information	PASS
7.	Check if as user I can filter locations on the map	Turn on filter on map	User ID, Vendor ID	Return filtered locations	PASS
8.	Check if as ticket vendor I can view booked times and quantity of bookings	Check if bookings correspond to bought tickets	Vendor ID	Return bookings	PASS
9.	Check if as ticket vendor I can contact customers	Write message to customer in application	Vendor ID, User ID	Return user information	PASS