

TALLINN UNIVERSITY OF TECHNOLOGY

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Travel Planner

Course project for Web Applications with C# (ICD0024)

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Author's declaration of originality

I hereby certify that I am the sole author of this thesis. All the used materials, references to the literature and the work of others have been referred to. This thesis has not been presented for examination anywhere else.

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1 Introduction

The goal of this project is to create a Web Application, which would help users plan and organize information regarding their travels. The need for such an application came from the author's own experience, liking to plan travels independently and needing to keep travel plans organized. So far such travel plans have been kept in Excel files, but this does not give a good enough overview of the important information. Having a travel planning web application would allow to visualize the information a lot better and therefore make travel planning much easier.

2 Overview

The goal of the Travel Planner is to help users with planning their travels. While booking travels through a travel agency is convenient, it lacks necessary flexibility. Planning travels independently is often cheaper and allows travellers to have more options: where to stay, how to move around in their chosen destination and what activities to do. However doing the planning independently involves a lot of research: the necessary information is scattered across different web sites and can be hard to organize. The Travel Planner app helps to gather the information in a way that is easy to follow and understand.

The app makes it easy to have an overview of the accommodation, transport and activities planned for the trip. Travel planner also allows the users to make different lists regarding the trip, such as packing lists and to do lists before and during the travels.

The application will organize the necessary information into 2 main views for the user: the calendar view, which will give an overview of the planned accommodation, transport and activities day by day and the map view, which helps the user to organize important locations into one map to evaluate the distances and help plan activities into a day. The Map view will be implemented with the Google Maps API.

3 ERD

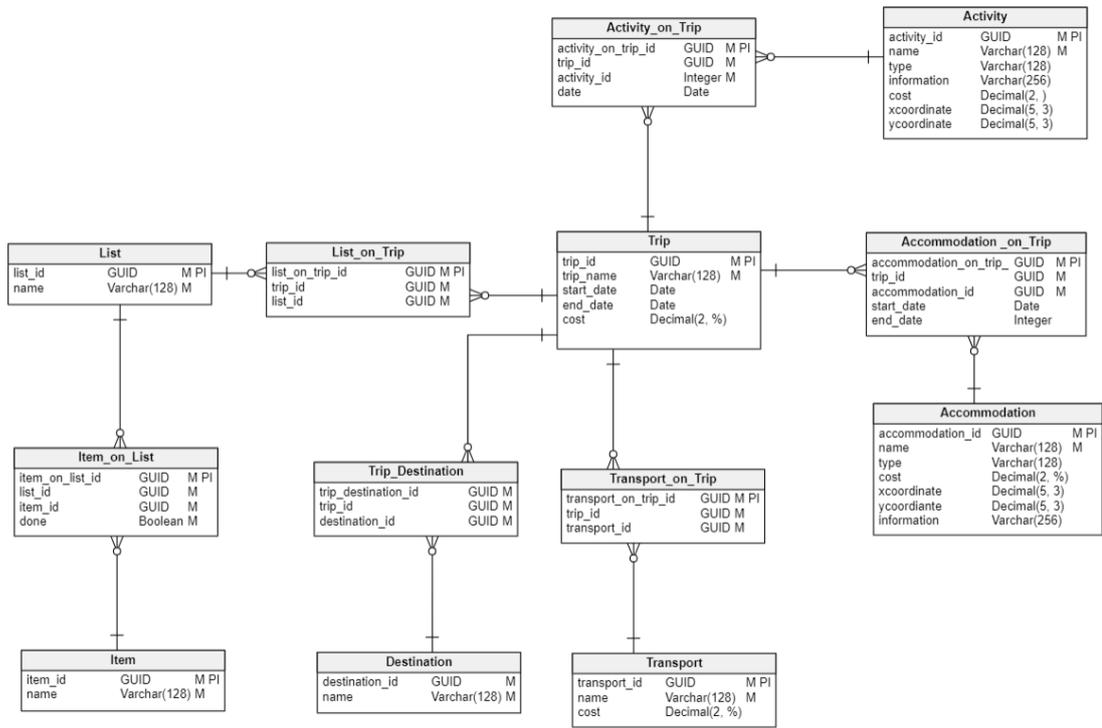


Figure 1. Entity relationship diagram

4 Client Positive Flow

To use the application, the user must log in with their credentials. After logging in, the home screen for the user displays their upcoming trips. From this page they can also add a new trip and access past trips if needed.

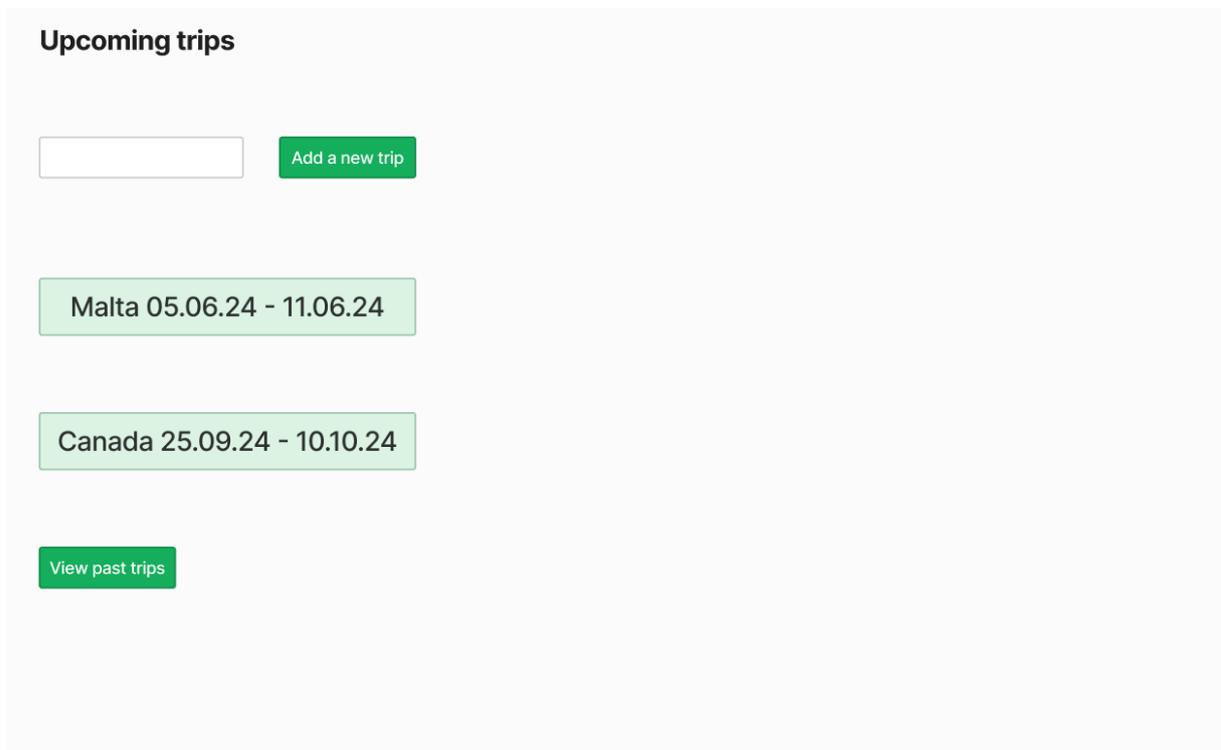


Figure 2. User home screen

Clicking on the trip name displays a page with the trip overview. This is the calendar view, where trip details are brought out day by day. The user can get an overview of the accommodation, transport and activities planned for each day of the trip. From here the user can also add a new activity, accommodation or transport options to the trip.

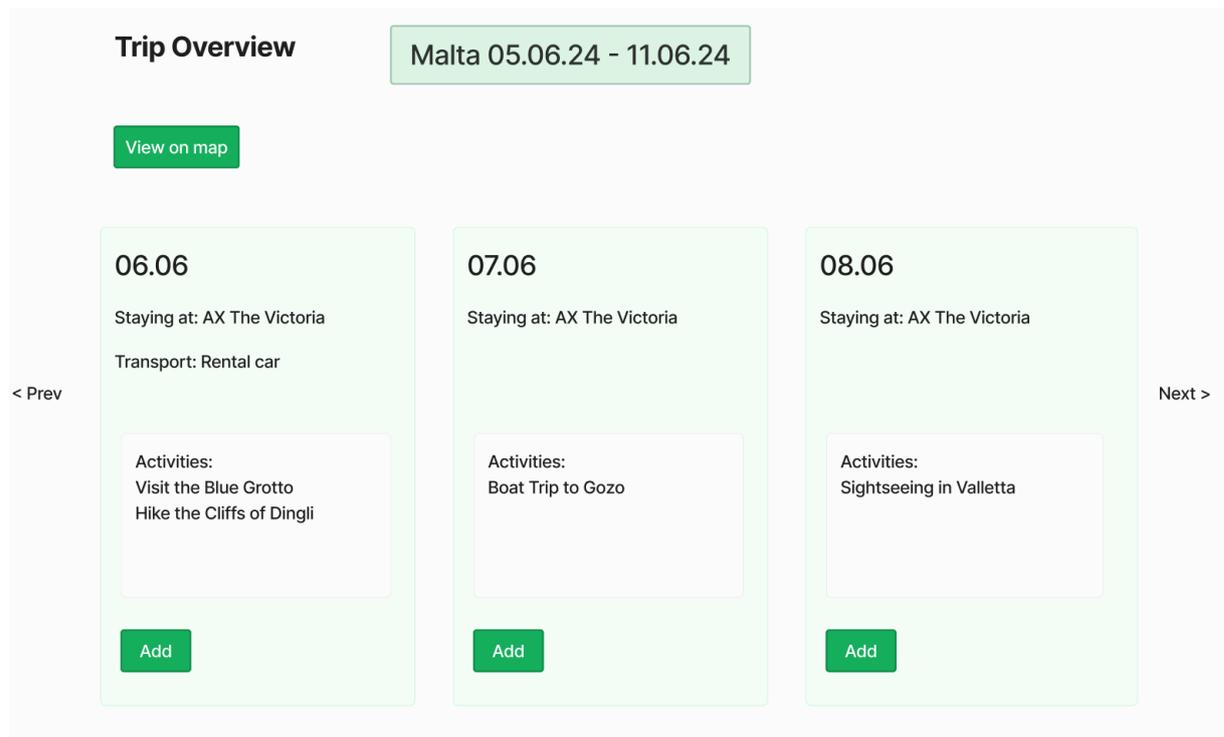


Figure 3. Trip overview

The user also has an option to view the planned activities and accommodation on a map. The map view displays the map of the area the user is travelling to. The activities and accommodation added to the map display as markers, showing the name of the activity/accommodation. This makes it easier for the user to calculate the distances and plan activities to a day.

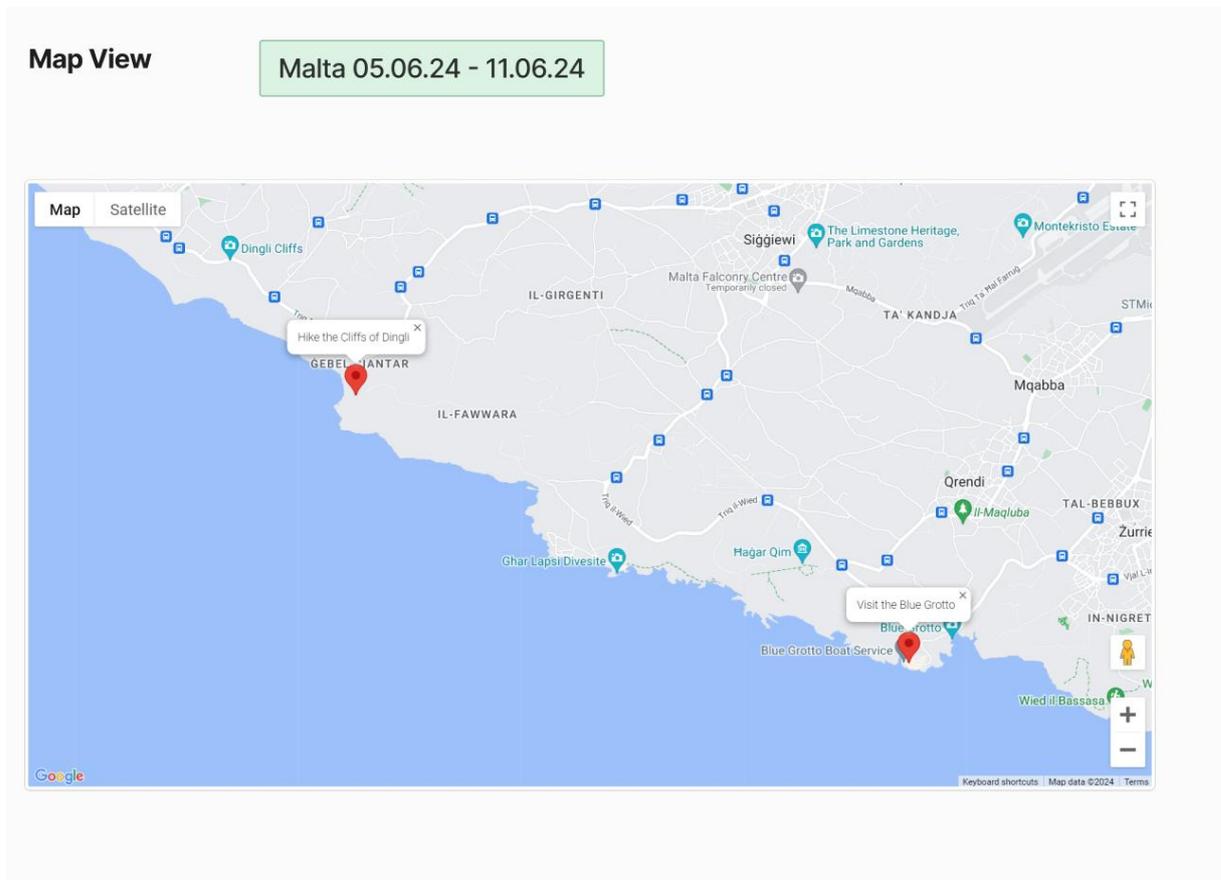


Figure 4. Map view

The user also has an option to add custom lists to a trip to make it easier to manage different details such as things to do before the start of the trip or packing list for necessary items.

The screenshot shows a user interface for a packing list. At the top left, it says "Backback packing list". To the right, there is a date range "Malta 05.06.24 - 11.06.24" in a light green box. Below this, there is a list of items, each with a checkbox and a text label:

- Passport
- Phone
- Charger
- Wallet

At the bottom, there is an empty text input field followed by a green button labeled "Add Item".

Figure 5. List view