



Technical University of Munich

SEBA Master

Web Application Engineering

Assignment 2 Report

Technical Description

Team 05

Batuhan Erden	03738750	Informatics
Halil Eralp Kocas	03720705	Informatics
Anıl Kul	03754700	Informatics
Cansu Yildirim	03740404	Informatics

Table of Contents

1. Use Cases	3
1.1 Use Case 1: Searching a destination and filtering recommended options for planning the trip	3
1.2 Use Case 2: Completing planning a trip with adding destinations, paying tickets & menus, and getting trip information	5
1.3 Use Case 3: Reviewing and rating past trips	7
1.4 Use Case 4: Partner locations creating/editing their own profile pages	9
2. UML Class Diagram of the Conceptual Data Model	11

1. Use Cases

1.1 Use Case 1: Searching a destination and filtering recommended options for planning the trip

In order to create a new itinerary on our platform, users must select one of the supported destinations by entering the desired destination in the search bar. They must also select a date for the trip using the date picker. After selecting destination and date, the places related to destination will be listed in a new page with a couple of distinctive filters. The order of the places will be based on a recommendation algorithm that takes into account the following criteria: The number of Google reviews and ratings, especially the ratings of the people followed by the user. The recommendation lists are sorted by this score to put the most suitable places at the top of the list. However, users can still discover new places by scrolling down the lists. Selecting a checkbox means that the user who is planning the trip wants filtered recommendations that include the selected categories. For instance, users can filter places based on their type such as museums, art galleries, etc. In addition, users can also specify the price segments and cuisines of restaurants using exactly the same logic as when selecting categories for tourist attractions. The restaurants with the selected price segments are then filtered in the recommendations. The important point about selecting categories for tourist attractions and price segments for restaurants is that they are optional. If a user does not want to filter the places, they can simply leave the checkboxes empty. In a nutshell, both selection methods allow selecting multiple categories.

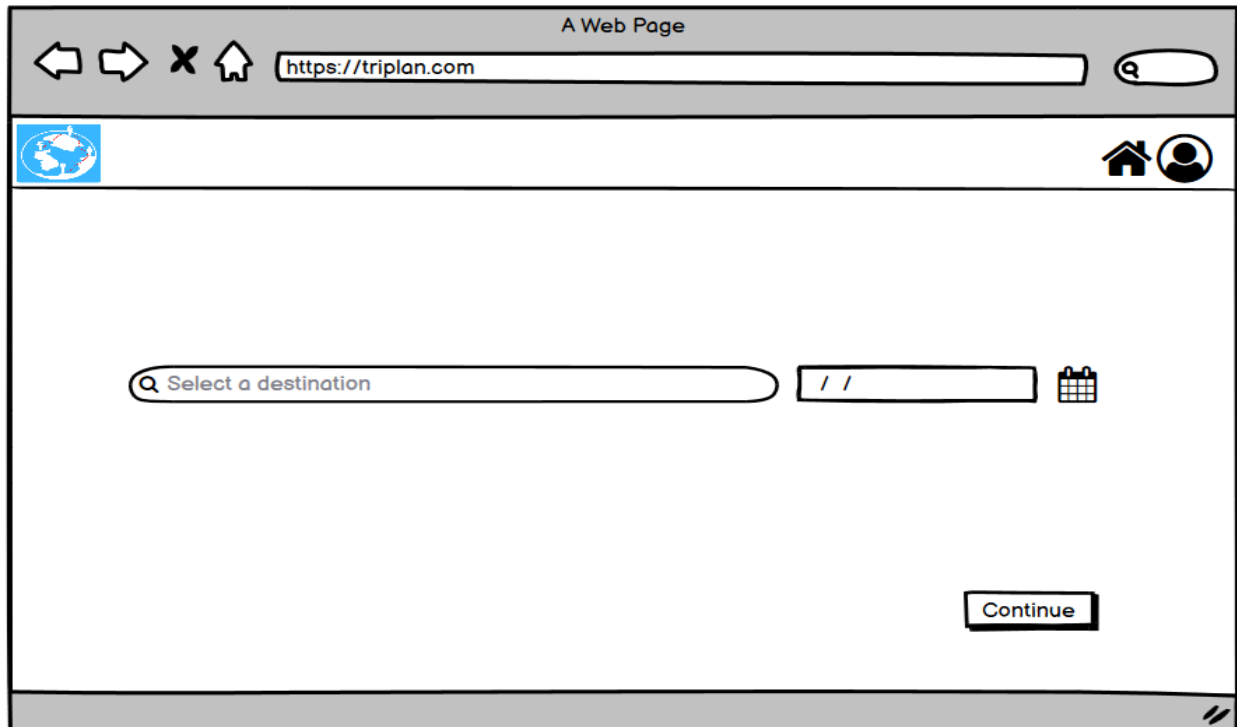


Figure 1: Searching the destination

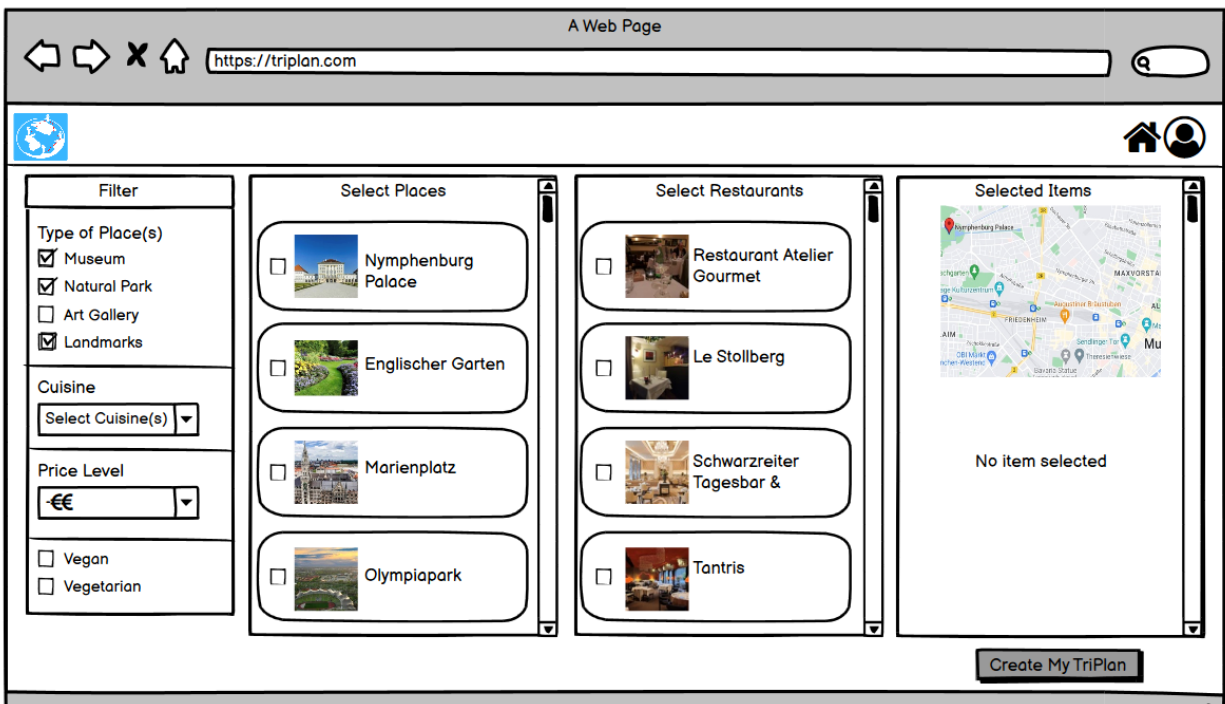


Figure 2: Filtering recommended options for planning the trip

1.2 Use Case 2: Completing planning a trip with adding destinations, paying tickets & menus, and getting trip information

Users can add the attractions and restaurants to their itinerary by tapping on the cards in the recommended destination lists. One can simply deselect the places by tapping on the same cards again. The card can be fully clicked to add the item to or deselect the item from the itinerary. On the right side, there is a list view with the selected tourist attractions and restaurants. There is also a map view that shows the exact location of the places. The only thing our users need to do to see the location on the map is to click on the desired map item from the list. Each time they click on a different location, the map adjusts according to the clicked element. Initially, the map view shows the center of the city selected as the desired destination. Finally, when the users have made their selection, they should click on the "*Create my Triplan!*" button to get the optimal route with the selected locations. As the last step of the planning process, the users can also review their plan on the trip details page where they can click on the places in the plan view and select paid services that they want to pay for with their wallet. After they complete all these operations, they can click on either the "*Pay with PayPal*" button or the "*Pay with My Wallet*" button to pay for the paid services. Upon successful payment, the itineraries get automatically sent to the users via email.

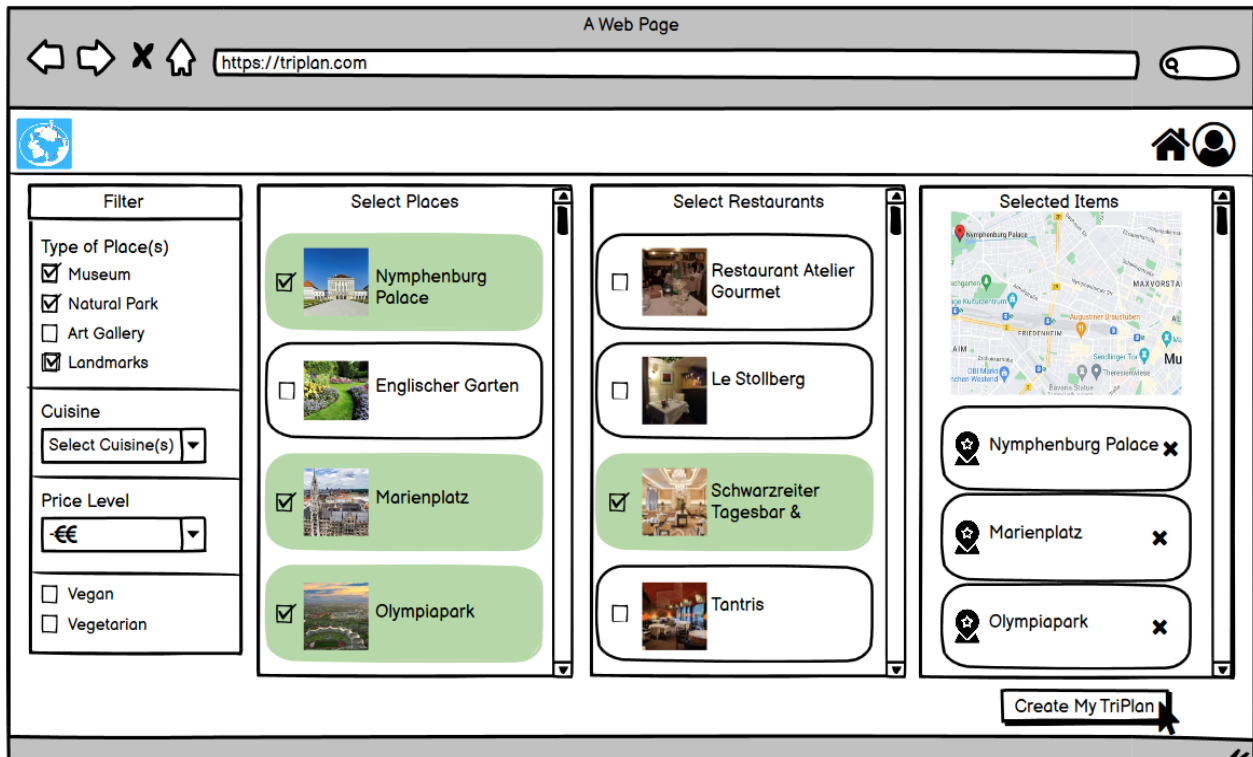


Figure 3: Adding destinations to trip plan

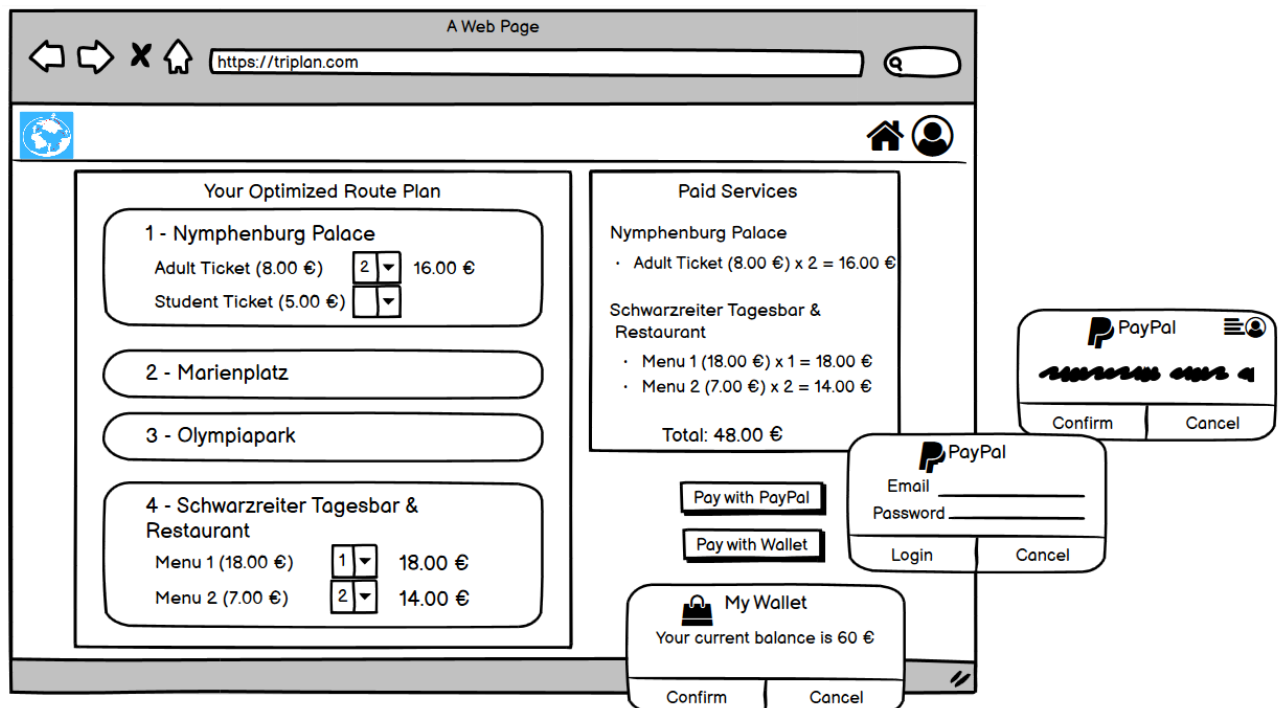


Figure 4: Viewing finalized trip plan and paying tickets & menus

1.3 Use Case 3: Reviewing and rating past trips

Users' past trips should be visible on their profile both to themselves and to others who follow them, so that our users can see their experiences and the experiences of others. To review past trips, users should head to their profile page, where a list of past trips will be listed with an identifier indicating whether or not they have been rated. Users can go into the details of their past trips by clicking on cards or clicking on the *"Rate Trip"* button for the trips that have not been rated. On the details page, users can see the list of the places they visited during their trips. For the rated places, users can see how many *"stars"* they have given a place and what comments they have made about it. Otherwise, they can rate with a number of *"stars"* and also add comments to share their experience with the people who follow them. To rate with *"stars"*, users should select X out of 5 *"stars"* by clicking on the *"stars"*. To comment on a place, users should click the *"Add Comment"* button to add their comment. Then they should click the *"Save"* button to save their comment.

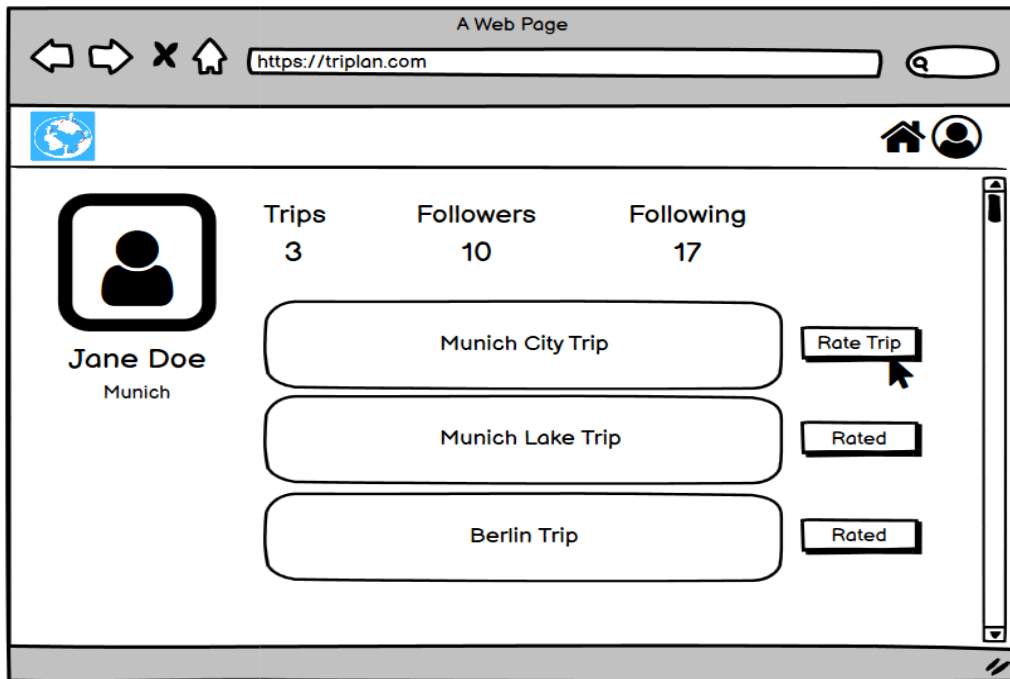


Figure 5: Viewing user profile page with past trips

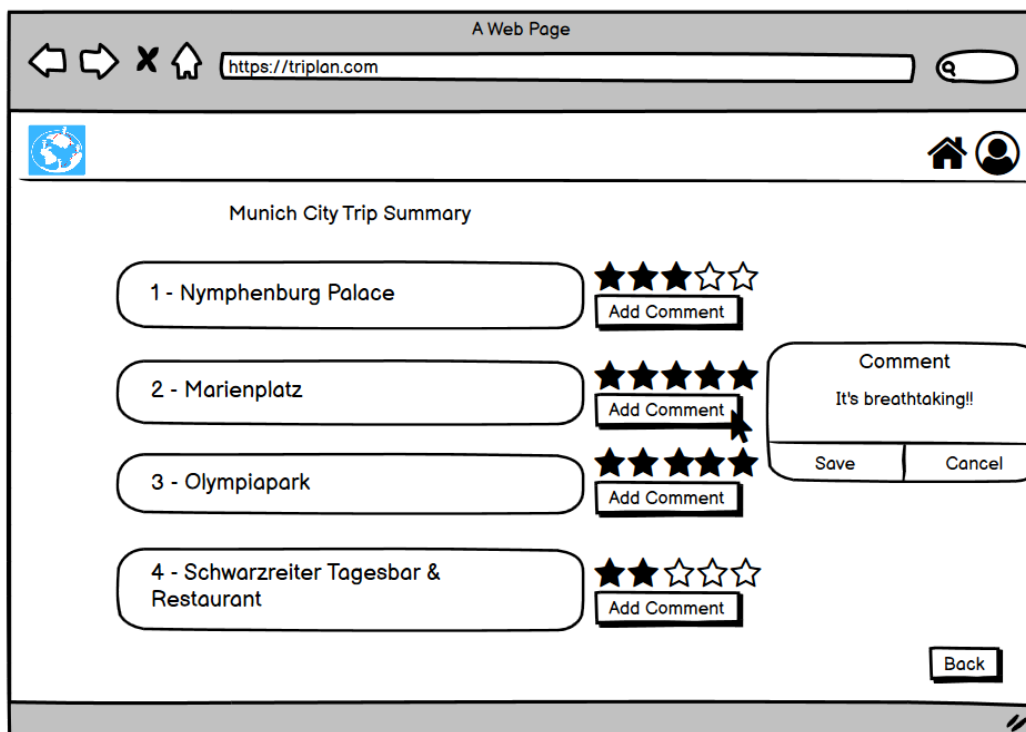


Figure 6: Rating past trips by giving stars and adding comments

1.4 Use Case 4: Partner locations creating/editing their own profile pages

Creating a profile page to access our users is important for our partner sites. For this purpose, they should upload their photos, add address and phone information, and enter the services they offer on their profile page. When users access a location's profile page, they should be able to see all relevant information. In addition, our partner locations should be able to edit the relevant information. To this end, they can click the "*Edit Profile*" button to add or update their profile information. They can use the "*Upload Photo*" button to upload photos related to their location. They can also fill in the text input fields for the name of the place, address, phone number and price range. On the other hand, adding new cuisine categories is possible using the text input field and the "*Add Cuisine*" button on the "*Edit Profile*" page. Restaurants can offer menus with fixed prices to our users. To do this, they add an appropriate photo of the menu, the dishes offered and the price on the "*Edit Profile*" page. Then, they can click on the "*Add Menu*" button to save the menu changes. After completing the changes, the person responsible for the restaurant should click on the "*Save Changes*" button to apply the changes.

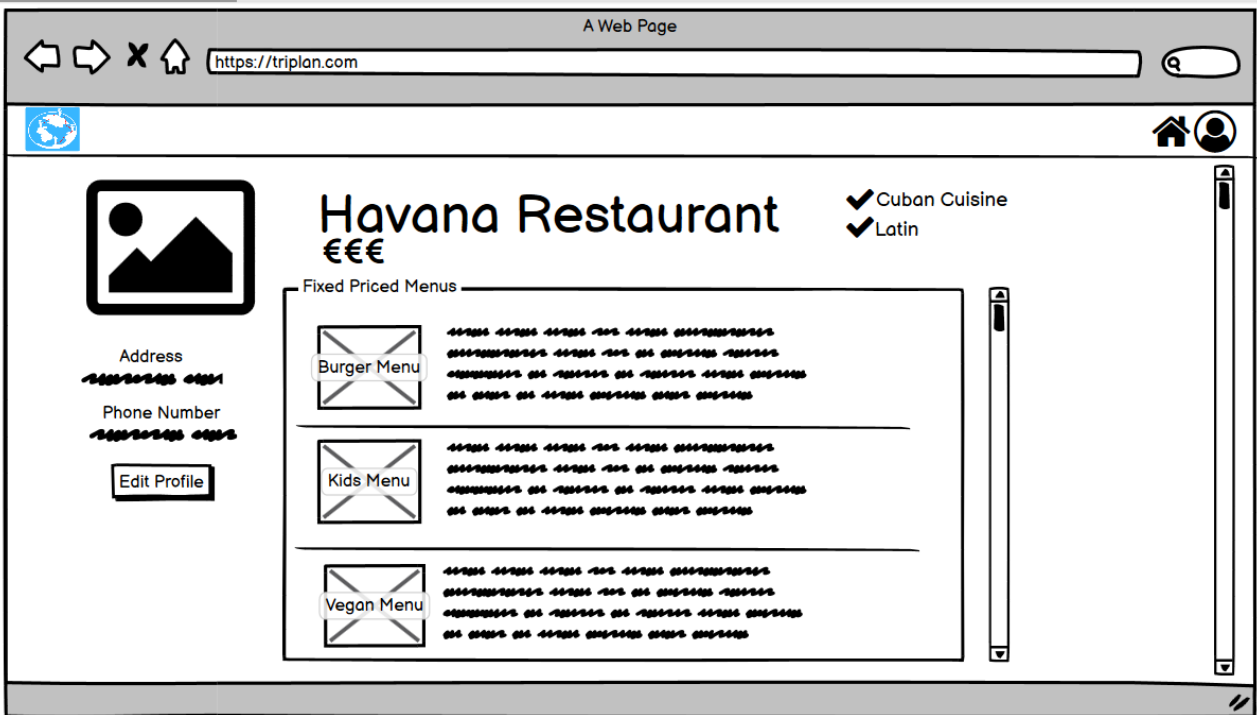


Figure 7: Viewing partner location profile page

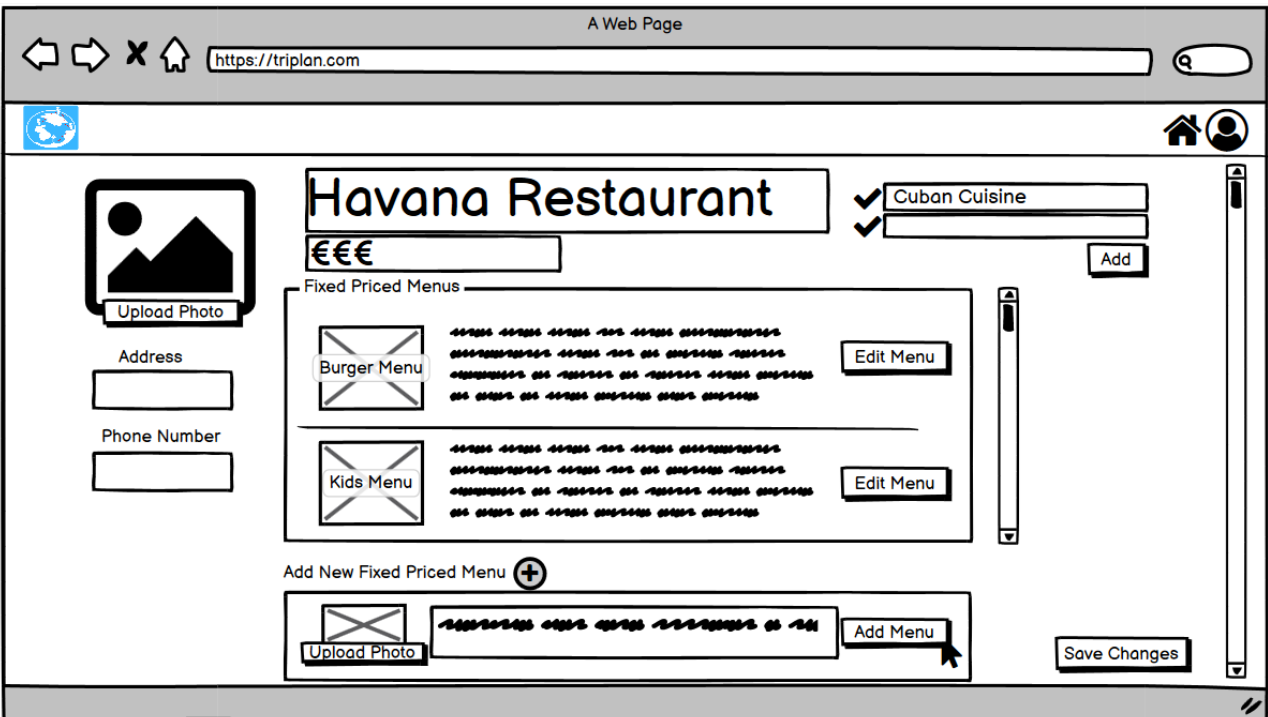


Figure 8: Editing partner location profile page

2. UML Class Diagram of the Conceptual Data Model

