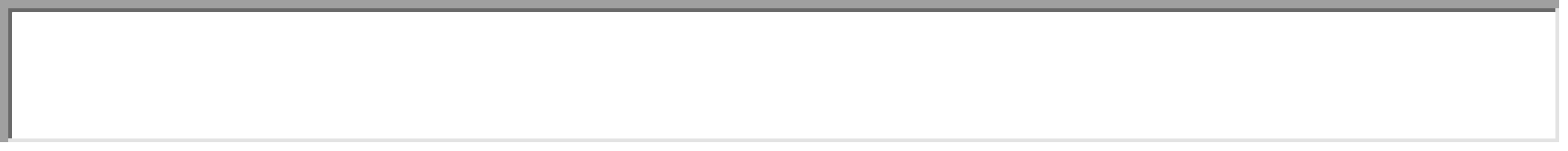
# **Design and Implementation of IS: Assignment Bonus**

# **UML**

**System Name:** 

Perfect Trip System

**Semester:** A 2024

Askevich

**Submitted by Group:** 

208642868\_316495126

# **Assumptions:**

This is an optional section for essential assumptions; Please provide concise information aimed at clarifying key aspects for the exercise evaluator; Ensure that the content does not replicate details already presented in the system description narrative.

# **We are using the solutions use case, class and state chart diagrams and not our original one to make it closer to the wanted implementation.**

# **In order to show the exporting we put it in the vp of content panel although it happens automatically.**

# **In ex 3 the updated instructions were to export to a word file, we did in this ex the same.**

# **We will assume that a trip creator can invite to the trip only members of the "perfect trip system" because we cant send an email throw the current system.**

# **1.1.a. The Final Use Case Diagram:**

תמונה שמכילה טקסט, תרשים, קו, תוכנית

התיאור נוצר באופן אוטומטיVerify readability of the figure.

Our original use case diagram:  
A diagram of a diagram

Description automatically generated

**1.1.b. The Final Descriptions of the Use Cases:**

Make sure the descriptions are short and concisely describe the responsibilities of the various use cases.

a. Retrieve distances between places: This use case is responsible for retrieving the distances between different places from Google Maps.

b. Import places: This use case is responsible for importing places from the MZ system into the Perfect Trip system.

c. Manage kitchen styles: This use case is responsible for maintaining the list of kitchen styles and associating them with restaurants.

d. Invite friends: This use case is responsible for sending invitations to friends to join the Perfect Trip system.

e. Add/Update a review: This use case is responsible for adding or updating a review for a place.

f. Generate recommendations: This use case is responsible for generating personalized recommendations for places to visit based on a user's preferences.

g. Trip management: This use case is responsible for managing a trip's itinerary, including adding and removing places, and tracking the trip's progress.

h. Receiving the registration confirmation email: This use case is responsible for sending a registration confirmation email to new users once their account has been created.

i. Registration: This use case is responsible for creating a new user account and storing the user's information in the system.

j. Browse places and recommendations: This use case displays a list of places and recommendations to users, along with their details and ratings.

k. Search for places: This use case is responsible for searching for places based on a user's query and returning a list of matching results.

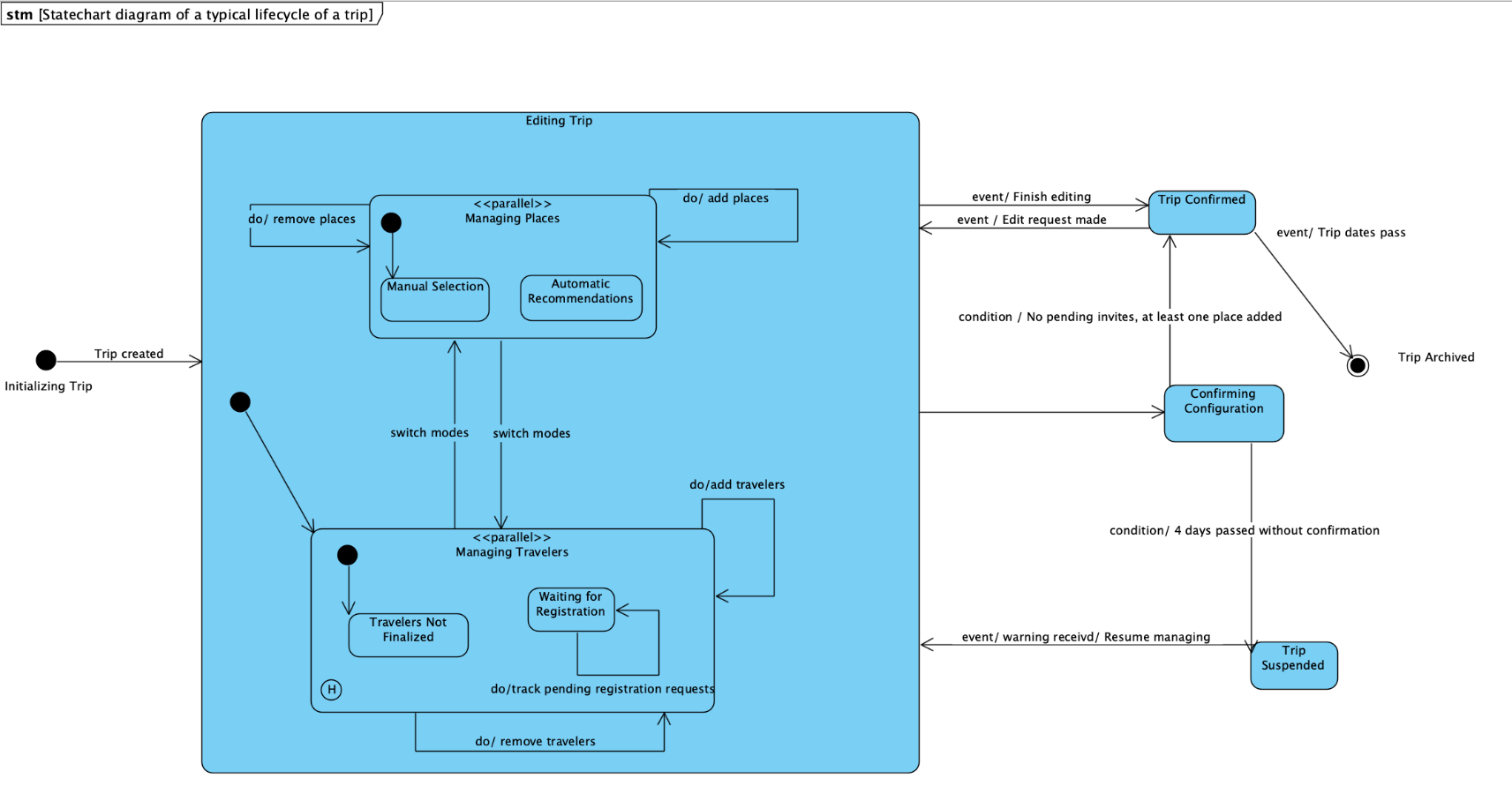
# **1.1.c. UML Class Diagram:**

A computer screen shot of a diagram

Description automatically generatedThis section will not be checked again and is intended to understand the context.

**2.1 The Final Statechart Diagram:**

Verify readability of the figure.

**Model:**

The formal solution:

תמונה שמכילה טקסט, תרשים, תוכנית, שרטוט טכני

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**Description of the final model:**

|  |  |
| --- | --- |
| **Event / Variable** | **Description** |
| **Trip created (Initializing Trip)** | A trip is initiated; unique ID and dates are set. |
| **Managing Travelers** | The creator invites members, handles registration, and tracks requests. |
| **Waiting for Registration** | Awaiting confirmation of invited travelers' registration. |
| **Managing Places (Manual Selection)** | Creator adds or removes places manually. |
| **Automatic Recommendations** | System suggests places. |
| **Add Places** | Places are added to the trip by the creator. |
| **Remove Places** | Unwanted places are removed from the trip plan. |
| **Switch Modes** | Toggling between manual selection and automatic recommendations. |
| **Add Travelers** | New travelers are added to the trip. |
| **Remove Travelers** | Travelers are removed from the trip by the creator. |
| **Editing Trip** | Changes made to travelers or places before trip confirmation. |
| **Trip Confirmed** | Finalized state when all travelers are registered, and places are chosen. |
| **Trip Suspended** | Temporary state if trip is not confirmed within four days. |
| **Trip Archived** | After trip dates pass, the trip is archived for review. |
| **Trip Canceled** | The trip is canceled by the user at any point before confirmation. |
| **Resume Managing** | Trip managing is resumed following a suspension or edit request. |

**2.2 Design Class Diagram of** search for the next place

Verify readability of the figure. For each diagram, the relevant screenshots must be presented (the titles can be reproduced if needed).

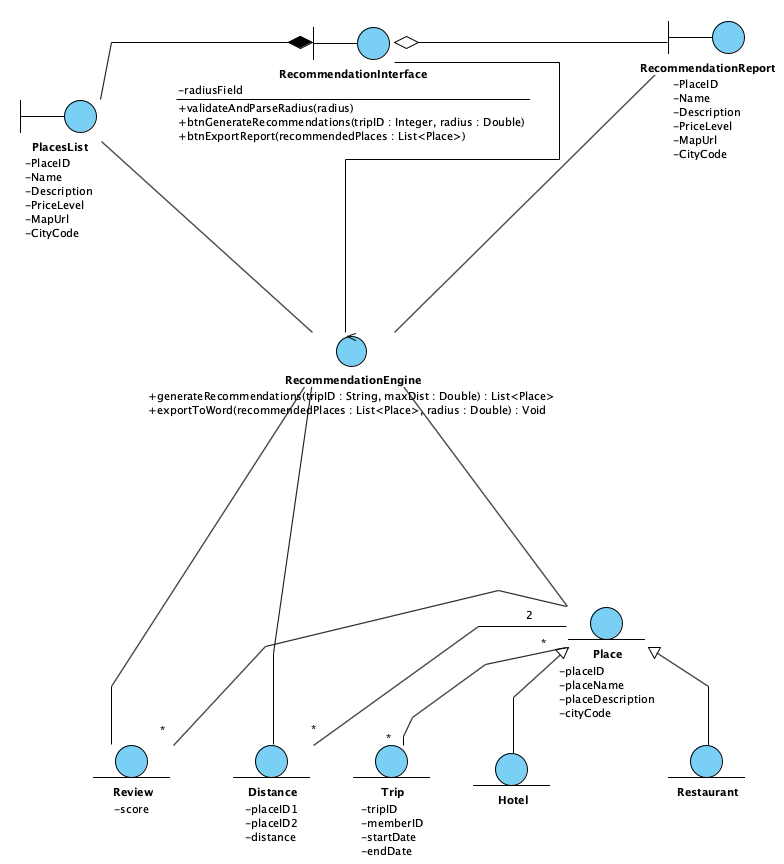
תמונה שמכילה טקסט, תרשים, צילום מסך, קו

התיאור נוצר באופן אוטומטי

**3.1.a Design Class Diagram of** Generation of the place recommendation report

Verify readability of the figure. For each diagram, the relevant screenshots must be presented (the titles can be reproduced if needed).

**Screenshot:**



**3.1.b Sequence Diagram of :**

Generation of the place recommendation report

Verify readability of the figure.

