

1 Advanced Intelligent Tourist Guide

1.1 Project Description:

There are two entities who will have the access to the system. One is the admin and another one will be the registered user. Admin will add places with their details such as place name, image, address, area, latitude-longitude, tags and description. Admin can view all the added places and also can edit if required. User is new he/she will have to fill the registration form (username, password, email, full name, contact no. and type of places i.e. tags.). Based on the provided details by the user, an intelligent algorithm will run and best results will be provided from the database. Clicking on each result will provide the user with the description of spots/locations along with the pictures. To view the tour plan, user need to select any two between dates from which the days and the places details with description. System will show multiple places with its images and other description which will be view-able on map. User can provide feedback to admin regarding the working of the system. Admin can view all the feedback messages received from the registered users.

1.2 Use Cases:

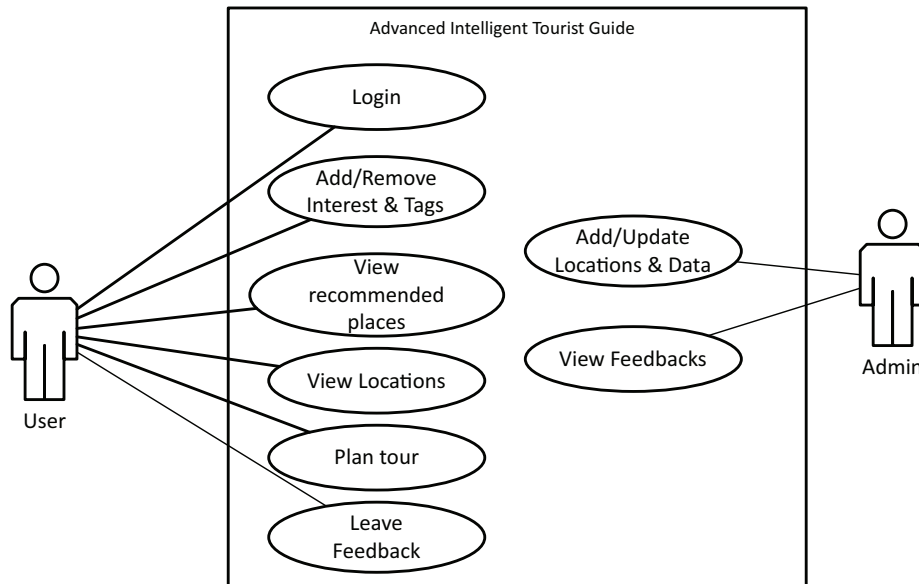


Figure 1: UML Use Case Diagram for the system

1.3 Technologies / APIs to be used (tentative):

1. APIs: FourSquare API, Google Maps API
2. Database Management System: MySQL / Microsoft Access
3. Programming Language: PHP / C# / Java / HTML / CSS / JavaScript
4. Frameworks: Laravel / .NET

1.4 System:

System will consist of a database containing places info along with their attributes like locations, photos, tags, etc. The longitude and latitude data will help in locating near by places for tour plans. User will be able to add his interests and likes during the account creation or profile management. The tags from interests and likes will be used to recommend places to the user. This database will be stored on a server. Using the Google Maps API, the locations and near by places will be handled that would help in creating the tour plan. There will be two client applications (most probably web applications) or pages one for the user and one for the admin to interact with the system. User Profile, Admin Profile, Session Management will also be the part of the project.

1.5 Methodology:

1. Setup the database schema.
2. Setup the server.
3. The registration page will be created with all the required fields that have been given in the description of the project.
4. The admin page will be created from where the admin can add new places along with the set of tags for that place.
5. The user page will be created displaying the recommendation dynamically of the set of places using the tags the user has entered during the time of registration.
6. Creation of other pages like feedback, etc.
7. Enhancing the UI.
8. Testing of the system