Network Programming and LAMP Stack Projects

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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.). After registration, user can login with the valid id and password. After login, user will get the places recommendation based on the preferences which were taken in the form of tags while registration. Based on the provided details by the user, an intelligent tree 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 viewable 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:

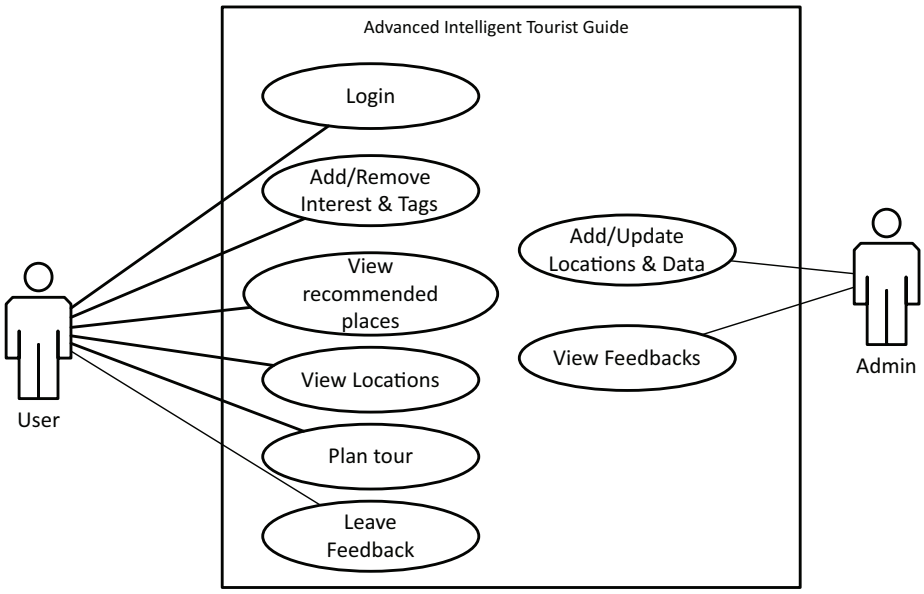

Figure 1: UML Use Case Diagram for the system

1.3 Technologies / APIs to be used (tentative):

1. APIs: Google Maps APIs
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 created with all the required fields that has 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 have entered during the time of registration.
6. Creation of other pages like feedback, etc.
7. Enhancing the UI.
8. Testing of the system

2 Secure Backup Software System

2.1 Project Description:

Using Software backup system, users can store files, documents, images, videos through windows application in a secured manner. In this user can store documents and files in any format which is kept in a separate folder made for each user. The stored folder is only accessible to the authorized users who can access their own folder. It's a windows application, where all the file details store in SQL Database. If the user found to be unauthorized by the admin, then admin can block a user and also can unblock it whenever required.

2.2 Use Cases:

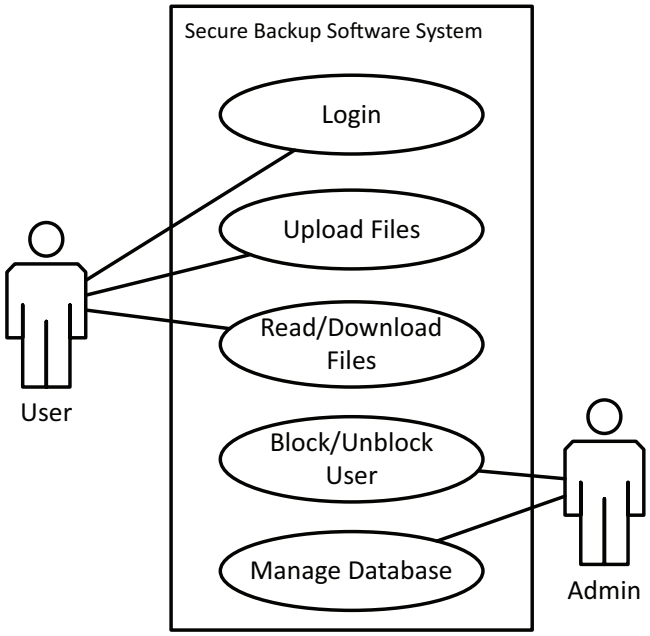

Figure 2: UML Use Case Diagram for the system

2.3 Technologies / APIs to be used (tentative):

1. Database Management System: MySQL / Microsoft Access
2. Programming Language: PHP / C# / Java / HTML / CSS / JavaScript
3. Frameworks: Laravel / .NET

2.4 System:

System will consist of a database containing file info along with their file type (which will be determined by their file extensions) and users. Files will be associated with users for the purpose of ownership / access. This database will be stored on a server. 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.

2.5 Methodology:

1. Setup the database schema.
2. Setup the server.
3. Development of both client applications.
4. Connecting database and applications.
5. Enhancing the UI.
6. Testing of the system