Main objective : make traveling easier

My idea is to build travel app, where there will list of sights provided by the system(me) and then each user of the app can propose to add some sight( which is not already in db. There will be also provided by the system list of travel paths and each user also can request to add new one.

Each sight will have description( general information history maybe), and some of them will have audio, which tells about provided sight.(Audio guide)  
videos [ if applicable]

There will be an option to filter the places( for example mountains, lakes, city sights etc.)

Filter places by location ( country, city, wojewodztwo, proximity to some location etc.)

Also user when goes in specific sight(card) can click and see the location on the map

Users can add trips to planned( where the user specifies the date) of trip( so it is planned)

Also user can add sights to favorites and then access the information about favorite places in faster way.

There will two way to check out sights:

* List of all sights( where the user can search by name ) and it will look like list of cards:  
    
  IMAGE DESCRIPTION  
   see more(it takes user to the detailed information about the sight,audio and click to see it on the map)
* Map ( where the user can see all sights in db) with its location. User also sees its own icon on the map so user decide which sights are closer to him  
  There is also an ability to search here and then it will display all sights that satisfy provided search condition.

Users can mark the place as visited, so it also will be visible one the map.(it is possible if the user is close to the location)  
  
Users will be able to see popular places among the users of the map( for now it will work in such way that it will take the most popular based on the number of people who marked the place as visited)

There will option to leave review for the sight, trip route.  
  
  
Place can be:  
 unvisited

Visited

Favorite

When the user approaches some sight, he will be notified, and provided with information about the sight

And based on it different icon will be on the map

To encourage users to travel there will be leaderboard (number of places marked as visited, or number of kilometers traveled etc.)

Since application is available all over the world the ranking can be global or by country.  
  
People who will be at the top of the leaderboard at the end of the some period(month, 3 months maybe) can get internal credits which then can be traded for internal prizes.   
It can be some cosmetics such as profile customization( user icon, frame and medals which will be visible in profile), also can be traded for some tangible prizes  
  
Also people who find new interesting places also will be encouraged

There also will be system of achievements(for example traveled 100 km, find 10 new places etc.)  
  
  
Users can specify type of the trip( by bike, walk, mountain hiking) and difficulty level  
  
There are also some sights which are not on the map(predefined by the system), but if the person finds it, the user will get unique price. (for example some trophy which then can be sent to the user and be visible in profile)

If available for the sight user can reserve some activities ( for example car, in person guide[ if audio guide is not enough or is not available] etc.)

To assist users in reserving places to stay, there is integration with external system(such as airbnb) so when the user selects some sight. The user can see rentals, hotels which are close to the selected sight.

The user can also filter the hotels, rentals ( such as number of stars, meals included, for families etc.)

Constraints :

Platform : the mobile application which should be functional both on the android and IOS devices. It will not be available for the desktop users

Security : Data privacy and security is priority. The goal is to protect sensitive information and prevent unauthorized access to resources(passwords,credentials, and user location) [user location should not be visible to other users]

High availability of the app: using cloud services such as azure or aws we can try to achieve high availability

Scalability : with increasing demand and popularity we should be able to scale the app if needed.

Location : the application is available all over the world(sights are visible in entire world)

Localization : there are multiple languages available for users of the application.

Bookings : Integration with external api which will enable booking process

For the application to function correctly application needs an access to users location and access to play audios and videos

!!! NEED TO REFACTOR