



Travellify



Enhance your Road Trip

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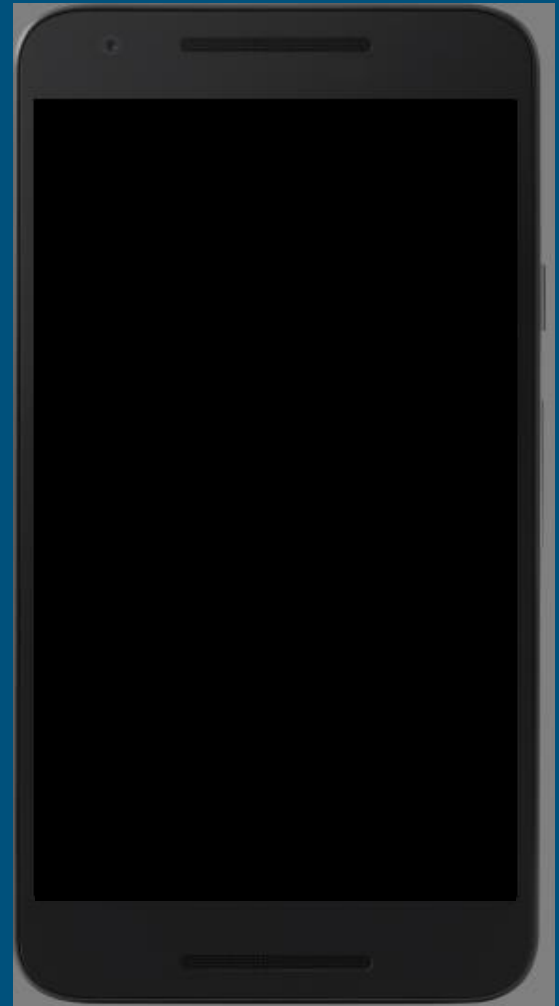


Description

- Extended Google Maps Activity and add Social Media experience – giving a complete Road Trip Planner.
- Recommendations for top Google places and Travellify hotspots with Place Description / images.
- Ability to search images based on user provided tags + Sharing images with other users based on Autocompletion suggestions.
- Design Trip based on intermediate hotspots as waypoints.
- Automatic tag suggestions based on probability based Image Recognition – Clarifai API.
- App maintains User Account Info – Name, Email, Profile Picture. User can view his previous uploaded images and shared with him images.

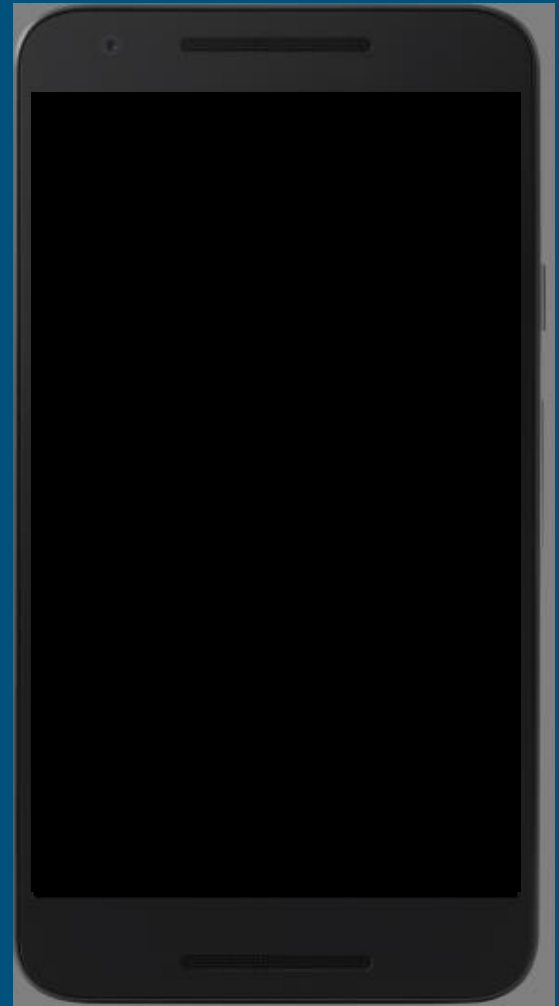
Working

- Sliding Navigation Menu displays all the application offerings
- Utilized Google Places API to retrieve Restaurants, Liquor, Gas station and hospitals around the user's current location.
- Clicking on any of the marker starts a new Activity which displays place details.
- User can browse through images uploaded by other users by specifying an image tag.



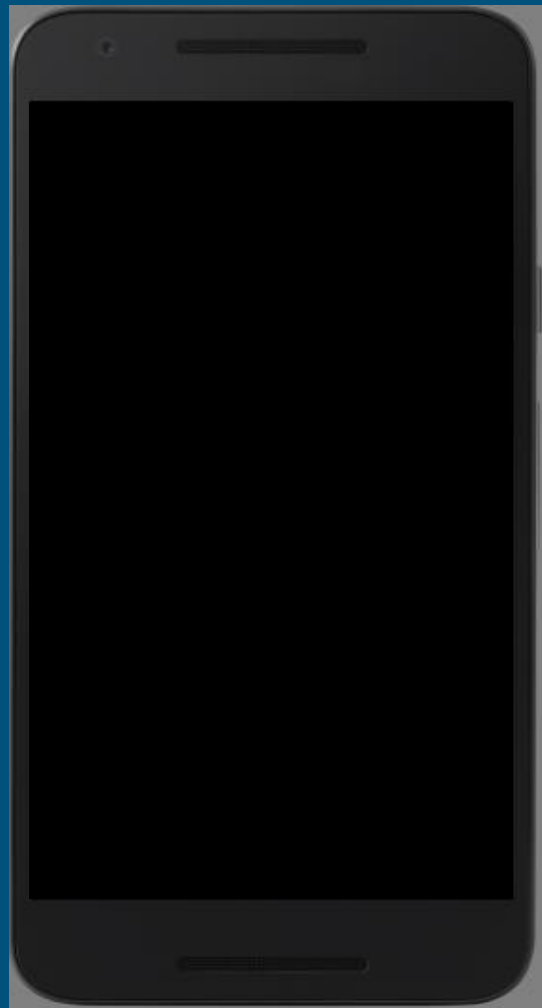
Working

- User can specify destination address and his current location is set as starting address.
- App recommends some hotspots along the path to the destination where the user may wish to visit.
- Clicking on any hotspot populates images uploaded by other users at that location.
- User can add this hotspot in his trip and distance and time variables associated with the journey will be modified.



Working

- We maintain every user profile in our database using his email id to uniquely identify each user.
- User can checkout all the images uploaded by him and all those images which are shared with him.
- User can upload images either by clicking a picture from camera or by selecting an image from Gallery.
- Selected or clicked image are sent to Clarifia API to perform Image Analytics and retrieve tags.
- User can choose up to 5 tags and also share the image with his friends.



Challenges

- Google current location retrieval in maps.
- Modifying the route from start to destination after user decides to include a waypoint in the path.
- Clustering all the images into one place ID based on their Location coordinates.
- Removing previously added markers from maps activity and adding new markers in the Map fragment
- Retrieve Coordinates of as many points as possible along the path to the destination and optimizing the search query to find hotspots running on every coordinate.
- Background tasks for image downloads and UI updates.
- Saving the instance on change of orientation.
- Use of Clarifai API for tag recommendations to avoid spam tags from users.
- Database integration for managing uploads/ sharing/ attribute tagging for social media user experience.
- Database design specs to incorporate images.
- Database CRUD for autocomplete features.