

Mile Stone 3:

Completed Tasks since milestone 2:

- 1) Understanding the fundamental concepts, possibilities and limitations of the beacon technology.

Understanding and implementing the concept like:

- Beacon monitoring
- Proximity sensing
- Opening respective activities as mobile enters the range of beacons.
- Configuring beacon, adjusting the power and range as per the requirement.
- Creating virtual beacons from phones using Estimote app(for development)

- 2) Integrated Google maps:

Understanding and implementing the concept like:

- Integrating GMS play services
- Creating markers on the map
- Change in the marker color according to the tour.
- Integrated google navigation for assisting users to commute different destinations.
- Customize OnInfoWindowClickListener to start Navigation from the current location.

- 3) Integrated You tube:

- Integrated you tube by fragments in the app rather than opening a separate you tube application.
- Understanding and implementing the concepts of fragments and UI design
- Implemented Yotube-Android player API

- 4) Creating other supporting activities for taking user comments and feedback, classes and layouts.

To-do tasks in Milestone 4:

- 1) Implementing navigation drawer
- 2) Improving UI
- 3) Saving the data on firebase server and fetching dynamically.

Labor division among team members:

1. Designing the page layout and deciding on the functionalities: All
2. Creating XML files for layout & the working of UI as intended : All
3. Creating menu activity which is common for every other activity : All
4. Designing the flow of the application and setting up various classes as per the requirements: Surag
5. Implementing splash screen with Logo at start up - Shubham
6. Setting up beacons and using the beacon libraries in application: Surag
7. Integration of google map and related functionalities like clickable map, navigation from one to other, display all the beacon points : Shubham
8. Integration of YouTube API in information page and related functionalities : Rama
9. Creating other activities and related functionaries like FAQ, Gallery, Feedback etc. : Rama
10. Collection of data related to different places around the university : All

Demo instructions and known limits:

This app requires You Tube and Google Map apps already installed.

Since this app has use of beacons we need to configure beacon with the corresponding locations for our application to work. Estimote virtual beacons can also be used for checking the functionality. Also , application requires Bluetooth to be turned on in order to set up the connection between the mobile and beacons after configuration.

Steps to configure new beacon:

1. Make a virtual beacon using iOS estimote app or use a physical estimate beacon.
2. Go to java/utility/ class.
3. Change the Major, minor and UUID for a particular destination.
4. Run the YouTour application in a physical device.

5. Select the configured destination in MapsActivity and start navigation.
6. If beacon is in Range, Detailed view activity of that destination will start.

YouTube link:

https://www.youtube.com/watch?v=Ssq_v8Sygxc