

PROJECT PLAN

Project Title: Tour Logger

Course Name: CS 551 - Advanced Software Engineering

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INTRODUCTION:

Everyone wants to travel to different places around the globe but the travel might not be easier depending on the destination that they choose. Destinations can be mountains, hilly areas, forests, towns, cities. And the most difficult part is how to get to that destination or how to plan for the destination whether to travel by bus, train, car, ship and if travelling by car the way to destination, where to stay, where to eat, which places to go etc. There are a lot of reasons why people around the globe travel to different destinations. These reasons include recreation, research travel, vacation, tourism, collecting information, migration to a new place, religious pilgrimages, mission trips, business and also some other reasons why people travel. Motivation for these travels include relaxation, discovery, knowing other cultures and also building interpersonal relationships.

In order to travel to different places, the information about the place has to be known so that the difficulties will be reduced. Every one desires to know about the important places, restaurants, hotels and other attractions in the destination where they plan to go. Today, there are so many tour guides available in the market for different attractive places around the globe. But buying those books and carrying them along creates some difficulties. So, in order to make the travel easy, a mobile application can be built with interactive user interface with various simple features like places to visit in particular city, various hotels and restaurants around the place, distance to one place to another place. This saves a lot of time for the travelers and make the travel easier.

PROJECT GOAL AND OBJECTIVES:

- **OVERALL GOAL:**

The main aim or goal of this project is to develop a mobile application that shows all the attractive places in a particular city and all the cities around the globe. This application is user interactive which allows users to search the best restaurants, hotels, motels, important places and also allows them to make a plan for their travel. It allows users to modify their plan, save it and also allows them to save their photos for their travel.

- **SPECIFIC OBJECTIVES:**

The main objective for this application is to decrease the difficulty in planning for a travel. To provide the user with an interactive user interface. To make the information about the places available for the user. To give the user best results when searched for restaurants, hotels, etc. and also the results should be filtered based on economy and their availability. To help the user showing the weather conditions on the timeline of the travel and also in all the places. So, these are some of the objectives of the proposed application.

- **SIGNIFICANCE:**

Traveling can be exciting but when we do not know about the place we are going to then there exists a lot of difficulty since we have to remember the place and the directions to that place which is very difficult. To reduce this difficulty, there are so many travel guides available and we can follow the guide and if the guide is lost there comes another difficulty. So, here comes the significance of having an application for the planning a travel easily and efficiently. There will be a sync option for this application which will synchronize the data about the travel plan in all the users' devices which is very helpful feature. Thus, this application is very important and significant in many areas.

PROJECT BACKGROUND AND RELATED WORK:

There are some mobile applications which are related to the proposed project. These are android applications and are discussed below.

TourPal is an android application travel guide which shows must see travel attractions, hotels and bars, shops, etc. in over 70 cities. Some of them are London, Paris, New York and Las Vegas. This application allows users to see where they are on the map and where to go too even without the internet connection. The features of this application are listed below

- Multilanguage Audio tours worldwide.
- Unique system for best results on restaurants, hotels, bars and shops.
- Online and Offline maps.
- Hotel booking.

TripAdvisor is another android application where people can plan a good trip. This application makes users easily find the lowest airfares, best hotels and lots of fun things to do. It uses the google maps which uses external storage. This app allows users to take pictures using the phone directly. The features of this application are listed below

- City descriptions.
- Browse lots of photos and videos by other travelers.

- Explore the restaurants based on type of food, rating of price.

Trip Logger is another android application which is designed to store the memories that is photos of the travel and the details about them. This application is not an informative one but users can view the photos and notes saved at a particular location. These photos are grouped into entries and are displayed into map and the location is highlighted. Some features of this application are

- Photos taken can be viewed on map.
- Stores the log of the travel.

The Similarities and Differences between each of the related work and the proposed project are listed below.

Proposed System	TourPal	TripAdvisor	Trip Logger
Tour guide to almost all the cities around the globe	Tour guide to limited cities at most 70 cities	Tour guide to most of the attractive cities	It is not a tour guide. It does not have information about the cities
Multilingual audio touring worldwide	Multilingual audio touring worldwide	No audio tour	No audio tour
Use of 3D Maps	No 3D maps	No 3D maps	No 3D maps
Save photos taken at that particular place or in a particular date and embedded into google maps	No such feature is available in this application	Photos are saved and can be shared publicly	Save photos taken at that particular place or in a particular date and embedded into google maps

PROPOSED SYSTEM:

1. REQUIREMENT SPECIFICATION:

a. FUNCTIONAL:

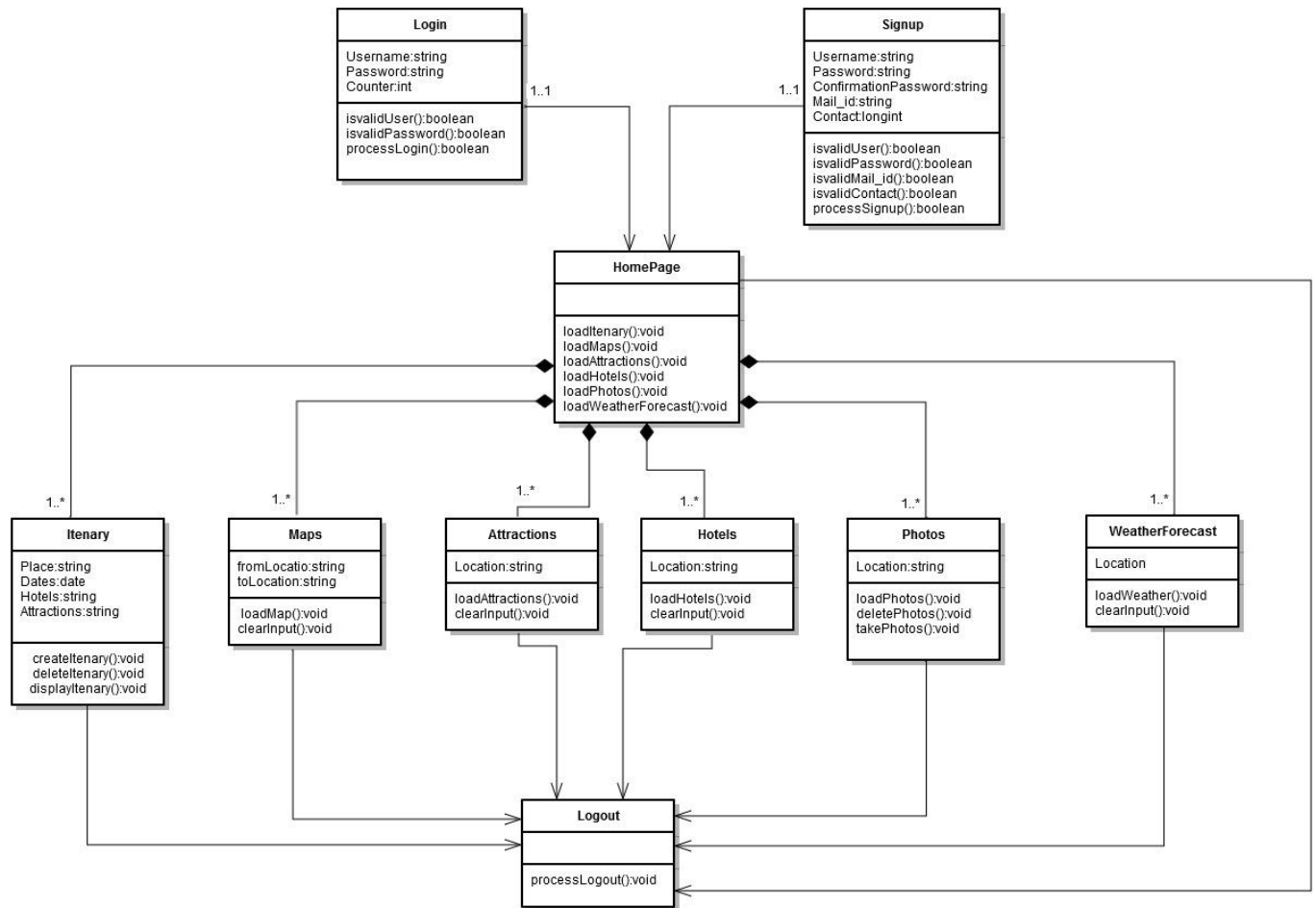
- User can register to the application.
- View list of the tour plans available to him.
- View his previous itinerary along with the photos taken at the places visited.
- View all attractions, hotels, bars, shops, motels, weather forecast available at the selected place for his tour.
- View the directions to the places from his current location and also audio tour is available to him.

b. NON-FUNCTIONAL:

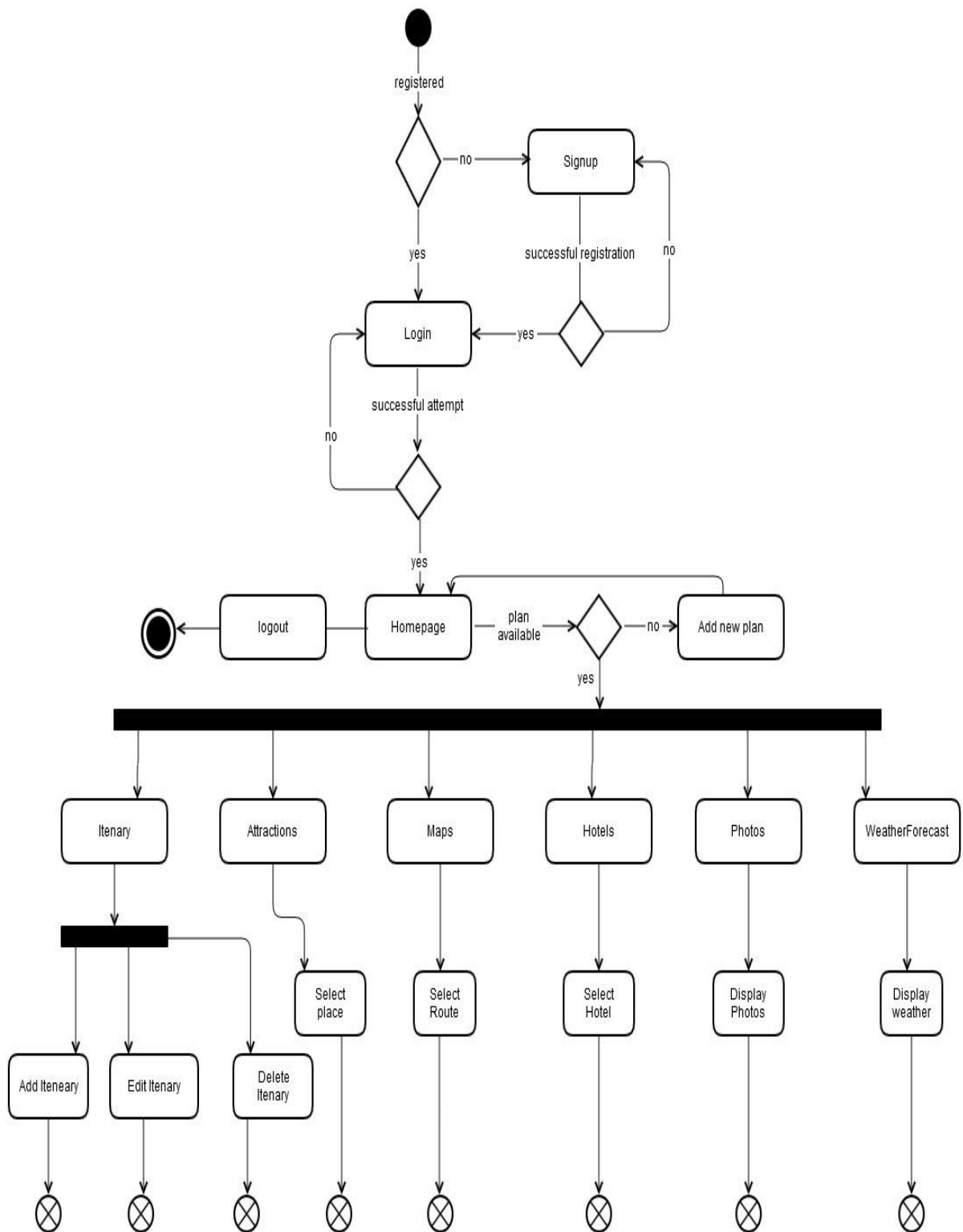
- Application is available at any time in all the places.
- Easy user interface to create his tour log history and is easily navigable.

c. BUSINESS PROCESS/WORKFLOW ANALYSIS:

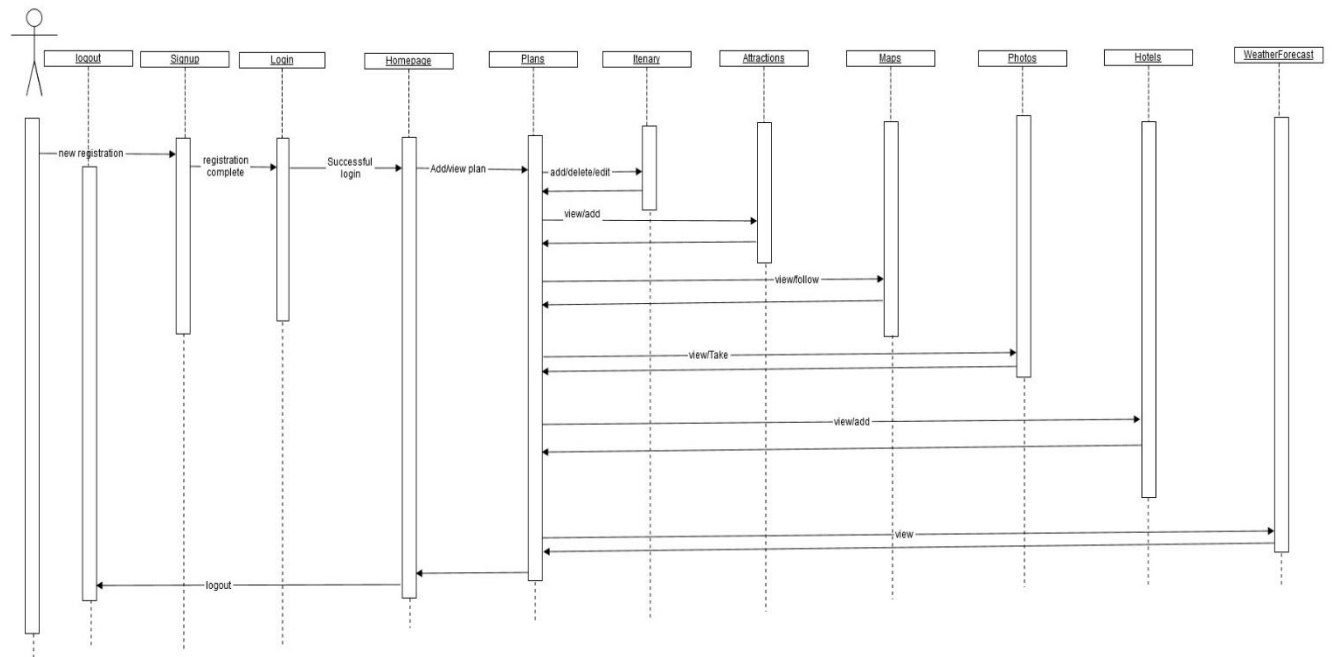
UML Class Diagram:



UML Activity Diagram:



UML SEQUENCE DIAGRAM:

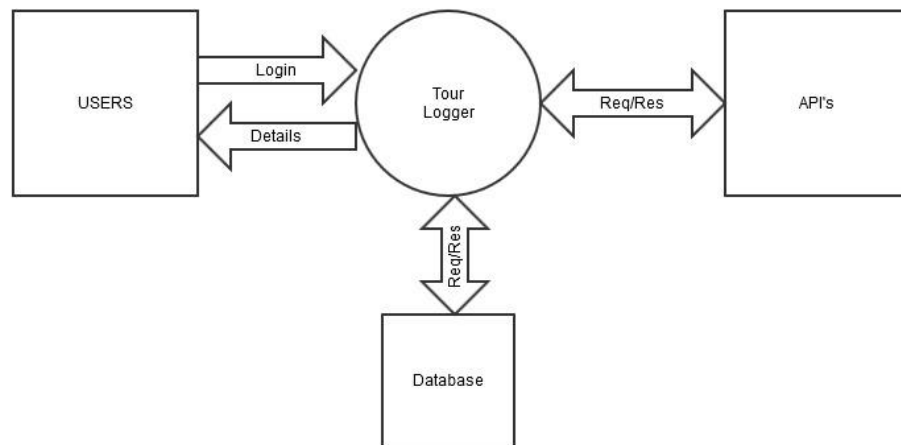


d. TECHNOLOGICAL AND ARCHITECTURAL REQUIREMENTS:

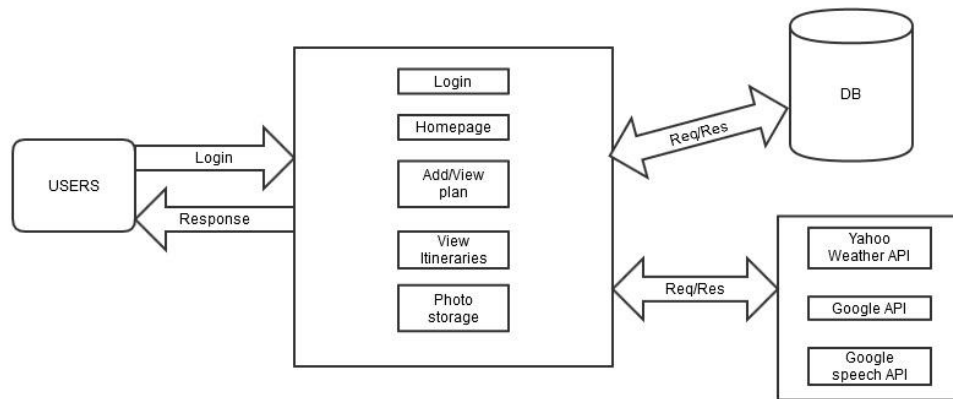
- Android Studio
- Microsoft Visio 2013 and Scrum Do
- SQLite
- Restful web service
- HTML5, CSS, JavaScript, jQuery Mobile
- Services: Google API, Google Earth API, Google Speech API, Yahoo Weather API

2. FRAME WORK SPECIFICATION:

a. OVERALL SYSTEM MODEL:



b. SYSTEM ARCHITECTURE DIAGRAM:



3. SYSTEM SPECIFICATION:

a. EXISTING SERVICES:

Yahoo Weather API: Getting information about the weather forecast of a selected place and displaying in the application user interface.

URL: <https://developer.yahoo.com/weather/>

Google Search API: Getting information about attractions, best restaurants, hotels, etc. nearest to the user's location.

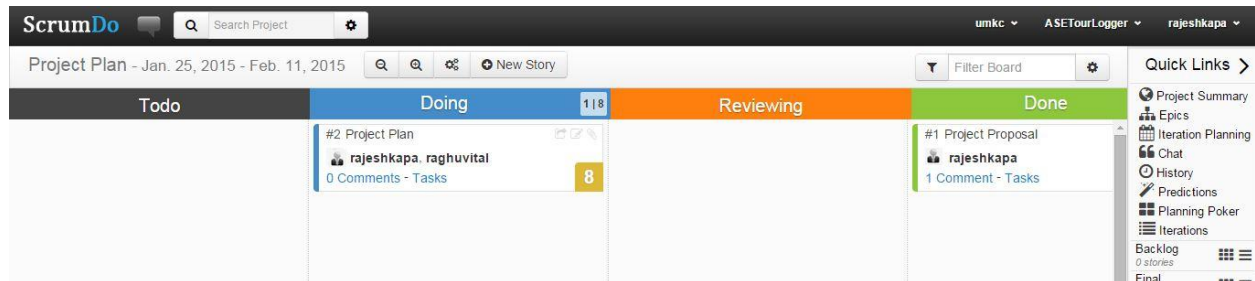
URL: <https://developers.google.com/web-search/docs/>

Google Animation API: To provide animation view of the google maps.

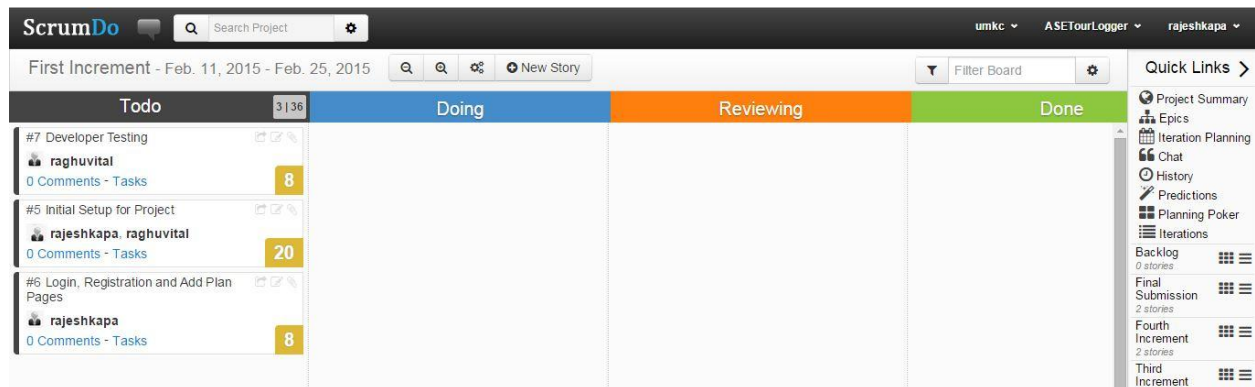
URL: <https://developers.google.com/maps/documentation/javascript/examples/marker-animations>

PLAN BY SERVICES (SCRUMDO):

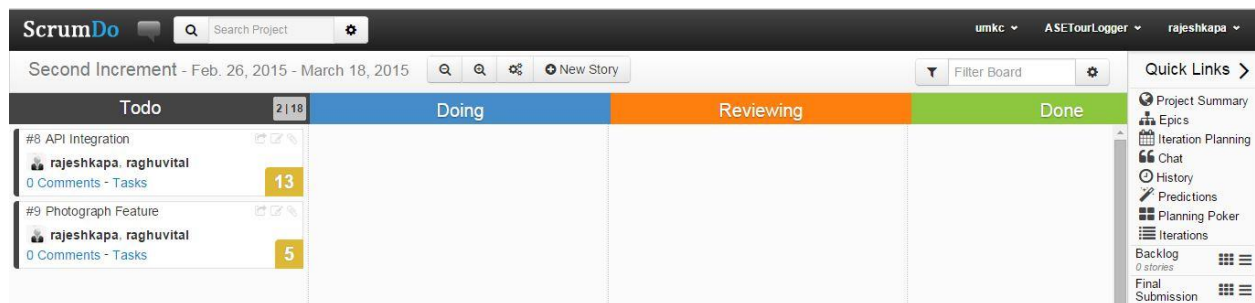
PROJECT PLAN:



FIRST INCREMENT:



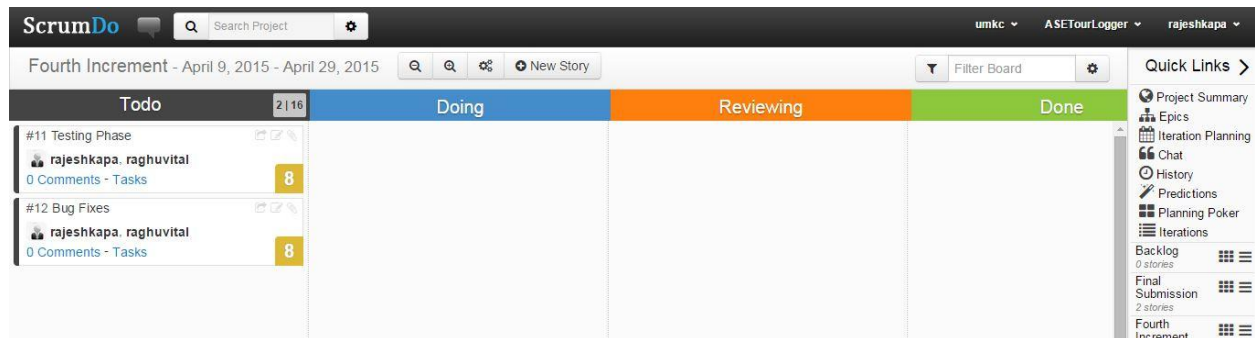
SECOND INCREMENT:



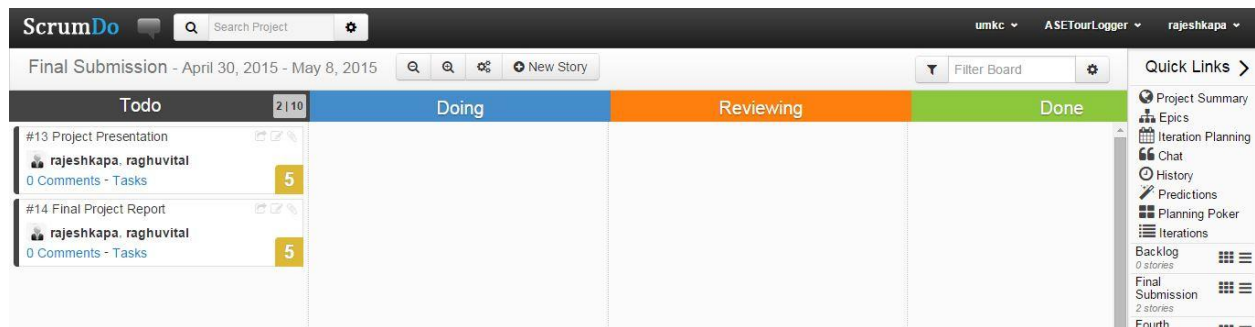
THIRD INCREMENT:



FOURTH INCREMENT:



FINAL SUBMISSION:



RISK MANAGEMENT:

- Data Storage of itinerary may be lost due to service failures.
- Google speech API may not work accurately causing troubles for the users while traveling.

GITHUB URL:

<https://github.com/rajeshkapa/ASETourLogger>

BIBLIOGRAPHY:

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