CS 5500: Foundations of Software Engineering

Group Project 8 - Stephanie Chung, Ricardo Garay, Luke Parkhurst, Kayla Sear

Sprint 0: Planning for Sprint 1

Due: 6/11/2021, 11:59 PM Pacific Time

1.

    a. Link to Trello Board: https://trello.com/b/jagzLmFL/cs5500-final-project

    b. Link to Github:

        https://github.com/EvilDrCoconut/CS5500SoftWareDevelopmentFinal

2. User Stories:

    a. John Fish (35yo Male)

        i. Site Seer traveling across the country and movie fanatic. He wants to keep track of the major locations he has seen.

        ii. He also wants to view what movies are playing in the areas he has traveled to and find new movies for different areas.

        iii. The application would require a location tracker, a log for places visited, and the ability to locate movie theatres in the areas of interest where John is traveling to, along with a log of what movies he has decided to view.

        iv. As an added functionality, he can add in the cost of movie theatre tickets to track how much he is spending in each city.

    b. Tom Holland (25yo Male)

        i. I want to see all the days that I completed a certain activity so that I can track metrics for myself.

  ii. Tom spends a lot of money on gym memberships, but there are a lot of free activities he participates in. He would like to see how many times he's going to a paid service versus a free service.

 c. Sharon Stamps (45yo Woman)

  i. Supermom Sharon, is a full-time mom who prioritizes efficiency. She wants to know where she's going and how much time/money she is spending in each place. (Budget)

3. Initial Design:

 a. Inputs: location data, movement data, place (start, end time), user input?

 b. Outputs:

  i. Frequency of:

   1. Locations visited

   2. Certain activities done on day-to-day/weekly/monthly basis

   3. Average costs of activities done on day-to-day/weekly/monthly basis

  ii. Detect patterns of locations most visited and alert the user of discount deals, and reminders of when something is not on sale

 c. Abstractions/Things we Need:

  i. Web Application

   ☐ Core set-up (4 story points)

   ☐ Map function -> address search to store lat/lon reference data (6-8 story points)

    ☐ Location tracker

☐ Timeline Overview (calendar) + drill down view for specific

day and specific task (6-8 story points)

☐ Budget function (4-6 story points)

☐ User input functionality (4 story points)

d. Programming language and external libraries:

    i.   IDE: IntelliJi

    ii.   Back-end: Java

    iii.   Front-End: JavaScript

    iv.   Database: MongoDB

    v.   External libraries: React.js, Node.js, Express.js, Bootstrap

e. UML Diagram/Relationships Identified: