**LUMOS TEST PROJECT**

**Blake Couch, 2/5/2019**

PROJECT OUTLINE

1. Set up web host at thecouches.net (30 minutes)
2. Set up online git repository (30 minutes)
3. Obtain trial Google API key (15 minutes)
4. Write the application
   1. Data entry page for address (30 minutes)
   2. Display page for map (30 minutes)
5. Write test cases (30 minutes)
6. Write documentation
   1. Installation and set-up instructions (15 minutes)
   2. Running test cases (30 minutes)

TEST CASES

1. User enters no address values and clicks Get Map
   1. Application returns a blank map with the “Map Error” at the top
2. User enters an invalid zip code and clicks Get Map
   1. Application will return a good map – Google handles this
3. User enters an invalid street address and clicks Get Map
   1. Application will return a good map – Google approximates the location
4. User enters a city and state only and clicks Get Map
   1. Application will return a good map – Google handles this
5. User enters a zip code only and clicks Get Map
   1. Application will return a good map – Google handles this
6. User enters a street address with no city, state, or zip code and clicks Get Map
   1. Application returns a blank map with the “Map Error” at the top
7. User clicks the Clear Values button
   1. Application clears all data entry controls and removes the displayed map
8. User reenters a previously entered address that was entered less than five minutes ago
   1. Application fetches and displays the locally stored map image, rather than call the Google API
9. User reenters a previously entered address that was entered more than five minutes ago
   1. Application calls the Google API to get the map image