System and Unit Test Report

<u>Product Name</u>: <u>Team</u>: RideShare Price Comparer <u>Date</u>: 12/8/2020

System Test Scenarios

Sprint 1

1. As a user, I want a landing page design, so I know what I am going to build for mobile and web.

Scenario:

- 1. Go the Rideshare Price Comparer website
- 2. User should see the page header, and the two input boxes labeled Pickup Location and Dropoff Location.

Sprint 2

1. As a user, I want a mobile friendly web application so that I can easily access this app on the go

Scenario

- 1. Open the Rideshare Price Comparer app on a mobile device
- 2. User should see the labels for pickup and dropoff stacked on top of each input box

Sprint 3

No user stories were completed in this sprint

Sprint 4

- 1. As a user, I want to visually see which rideshare app is cheaper so I can speed up the checkout process
- 2. As a user, I want to have a map displaying the locations so that I know they are the correct locations

Scenario

- 1. Open the Rideshare Price Comparer app on any device
- 2. Type:
 - Pickup Location: San Francisco
 - Press Enter Key or click on the option that says San Francisco, CA
 - User should see the map centered relatively on San Francisco, CA and a red pin on that location with its address.
 - Dropoff Location: San Jose
 - Press Enter Key or click on the option that says San Jose, CA
 - User should see the two location pins, one red and one blue, inside the map, and a line connecting the pins.
- 3. Click the button labeled "Compare!"
- 4. After waiting for a few seconds, the user should see the Uber and Lyft Prices lists.

Unit Tests

Front End

- Loading Components Tests
 - o GET Map element
 - The Google Map must appear on loading the page
 - Form Components defined
 - The Pickup Location input box must appear on loading the page
 - The Drop-off Location input box must appear on loading the page
 - Clicking Button
 - The Compare! Button must appear and be clickable
 - Uber and Lyft Price Lists do not appear on loading
- Address Form Input tests
 - Clicking off a box after typing in it will clear it
 - After typing in the pickup box, the box must not be empty
 - After clicking away from the pickup box, the box must be empty
 - The same goes for the drop-off box
 - A selected address from the drop down will be displayed in the text box
 - After typing part or all of an address in either input box, a drop down menu must appear containing a list of addresses
 - After selecting an address from the menu, the box will display the option that was selected
- Map Tests
 - Both the location pin and its address show up when an address is entered and deleted when an address is deleted
 - For each box, after selecting an address, a location pin should appear on the map pointing to the exact latitude and longitude of the address
 - Two location pins show up when both addresses are selected from each box
- Prices Output Test
 - Display Uber and Lyft prices when both addresses are filled out and the button is clicked

Back End

- Geocode Middleware Testing Suite
 - when invalid API key is set, it resolves the promise with a 500 error
 - when unknown Google Error exists, it rejects the promise with another 500 error
 - o when given correct params, it returns a successful resolved promise
- Geocode Testing Suite
 - when sending preflight request, it returns 200 with empty body
 - when given proper params, it returns 200 OK with proper body

- when query is undefined, it returns 400 BAD REQUEST error with correct fields
- when API key is unset, it returns 500 Internal Server Error
- when query is missing, it returns 400 BAD REQUEST with appropriate body

• Middleware Testing Suite

- when auth key is the correct one, it returns no errors
- when auth key is not set, it returns 500 error
- when given incorrect auth token, it returns 401 error

• getUberPrices Testing Suite

- when given incorrect params, it returns a 400 error with appropriate fields
- when given correct params, it returns appropriate 200 response
- when tokens are incorrectly set, it returns a 500 error with correctly set fields

• getLyftPrices Testing Suite

- o when given incorrect params, it returns 400 status code with error message
- when given correct params, it returns with a with no errors
- when unknown error happens server side, it correctly displays 500 error message

• Autocomplete Testing Suite

- when sending preflight request, it returns 200 with empty body
- when correct params and authentication are present, returns 200 with body
- when unexpected error happens on google's end, returns 500 error
- when request is not authenticated, it returns a 401 error
- when sending incorrect params, it returns a 400 response

• getPrediction Google API Testing Suite

- o when an error happens on google's end, it returns a 500 error
- when given a valid input, it returns a resolved promise with correct data

• getPrices testing Suite

- when preflight request is sent, returns a 200 OK response
- when validating, if incorrect token is supplied, it returns 401
- When validating, if token is unset in environment, it returns 500 error message with correct fields
- when given incomplete params and when lyft's params are invalid, it should return 400 bad request error message
- when given incomplete params and when uber's params are invalid, it throws a
 400 error bad request
- when given correct params, it returns 200 successful response with appropriate fields
- when server side error happens with uber, it throws a 500 error pointing
- when server side error happens with Lyft, throws a 500 error pointing