Assignment 2 - MCD4290
Requirements

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Project Information

Project Background and summary:-

Our client requires us to create a web application that helps university students plan their travel within the country for a semester or year.

Clients Requirements:-

1. Interface needs to be user-friendly and information should be readily available.

2. **Do not** wish to see tabs in the user- interface.

3. All pages must be consistent and visually appealing with **no use** of fluorescent colours.

4. **Not interested** in booking 'flights' but simply scheduling a trip 'plan' that can be taken to a travel agent for booking of necessary itinerary items.

5. OpenFlights may have duplicate routes as many airlines may travel the same route hence should only display unique routes.

6. International routes should be filtered out so only domestic routes are displayed.

7. Would like users to be able to easily view or differentiate between trips scheduled in the future versus trips scheduled in the past(by date).

8. The app's top banner should have the name and logo of the app on the left.

List of Features :-

1. The navigation drawer should have a link to the home (main) page, and a link to the page that allows the user to view all scheduled trips.

2. The client would like the user to be able to easily view or differentiate between trips that are scheduled (in the future) versus trips that have commenced or are in the past (by date).

3. The user needs to select a country from a list, along with the trip start date and time.

4. The user should then confirm their selections made in (4).

5. A map should be then shown and display all the airports in the country at an appropriate zoom level.

6. The user should be able to select a starting (source) airport.

7. Once the airport is selected, the map should show all the routes that begin from the source airport.

8. The user selects a route, which is then prominently displayed (clearly) to the user.

9. The map then should update with available connecting routes from the new 'source' (the destination of the route selected). This process can repeat until the user is satisfied with the trip.

10. At any point between (5-6), the user can 'undo' which removes the last route from the trip.

11. Then, the user can confirm the trip to be saved by selecting an appropriate button.

12. A route summary should be shown for the user to confirm the trip.

    ➢ If the user confirms the trip, it should be saved. If the trip is saved, the user should be redirected to the detailed trip information page for the newly saved trip.

    ➢ If not, the user is redirected to the main page.

User Stories:-

1) The navigation drawer should have a link to the home (main) page, and a link to the page that allows the user to view all scheduled trips.

   As a student, I want to be able to view all my scheduled trips so I can keep a track of the duration of my trips and I would like the home page to be a click away so it is easier to return to it at any time.

Acceptance criteria-

➢ Student can go to view all scheduled trips to keep track of duration of trips
➢ Can view details of all trips by clicking on them
➢ Can go back to home page by clicking on link/button

2) The client would like the user to be able to easily view or differentiate between trips that are scheduled (in the future) versus trips that have commenced or are in the past (by date).

As a student, I want to be able to clearly separate and identify the trips that are scheduled for the future and the trips that have already commenced in the past.

Acceptance criteria-

➢ Student can go to view past trips to see the trips that have been scheduled in the past
➢ Students can go to upcoming trips to view future trips

3) The user needs to select a country from a list, along with the trip start date and time.

   As a student, I need to be able to select a country from a list and start the date and time for the trip.

Acceptance criteria-

➢ Student can select country from drop-down list
➢ Can select start date and time

4) The user should then confirm their selections made in (4).

As a student, I want to be able to confirm the selections I made in selecting a country, start date and time.

Acceptance criteria-

➢ To confirm selections such as country, start date and time the student can click on confirm selection.

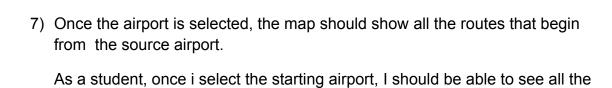5) A map should be then shown and display all the airports in the country at an appropriate zoom level.

As a student, I should be able to find a great advantage of a map being present as I would be able to decide how long it would take to get to my desired destination from the airport of the country I decide to visit.

Acceptance criteria-

➢ Once student confirms selection of country student will be presented a map with all airports in the country
➢ Students can then browse the map to see which airport to select.
➢ The student could also check how long it would take from the airport to a particular destination he/she is planning to visit.

6) The user should be able to select a starting (source) airport.

As a student, I want to be able to choose my starting airport.

Acceptance criteria-

➢ The student can select which airport to depart from to the destination country from the map presented to them.

7) Once the airport is selected, the map should show all the routes that begin from the source airport.

   As a student, once i select the starting airport, I should be able to see all the routes that begin from the starting airport.

Acceptance criteria-

➢ After selecting the starting airport all routes to the destination will be shown
➢ The student can then see all routes to their destination country

8) The user selects a route, which is then prominently displayed (clearly) to the user.

As a student, I should be able to select a route I prefer, and once that route is selected it should display clearly.

Acceptance criteria-

➢ The student can select a route such as the shortest route or any route he/she prefers.
➢ Once a route is selected the route will be displayed clearly to the student.

9) The map then should update with available connecting routes from the new 'source' (the destination of the route selected). This process can repeat until the user is satisfied with the trip.

As a student, I would like to see options and suggestions of where I can extend my route. This would help me find the best route to visit.

Acceptance criteria-

➢ Once route is selected the map will update showing the connecting routes from the route selected.
➢ The student can then select the next route from the end of the previous route until he/she reaches their destination country.

10) At any point between (5-6), the user can 'undo' which removes the last route from the trip.

As a student, I would like to be able to undo incase I have made a mistake or if I decide to change my mind about a certain route.

Acceptance criteria-

➢ Users should be able to undo the last route selected by the user from the trip.

11) Then, the user can confirm the trip to be saved by selecting an appropriate button.

As a student, I would always like to have a backup of the trips so in case I face a hardware failure I can return to where I stopped, so it could be saved in a particular area of the app.

Acceptance criteria-

➢ The student can save trip selection progress by clicking on a save details button to ensure that trip details have been saved.
➢ The student can then leisurely continue his trip selection progress at his own pace as their details will be saved where they stopped.

12) A route summary should be shown for the user to confirm the trip.

As a student, I would like to see a full summary of the routes before I confirm so I would know the total time duration as well as the distance and recheck if these are the final destinations that I would like to visit.

Acceptance criteria-

➢ Once the student has completed his trip selection a summary would be generated with all the trip details.
➢ The student can then check if details are correct or confirm that the details are what they selected.
➢ If a student isn't satisfied with the time duration or their selections they can go back and change their selections accordingly.