Team Russian Blue

Map Visualiser

Members:

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Concept

Our web application will display a map using Google Map API . Furthermore, it will tell us about different locations with images (such as images of universities, bars etc.) while displaying routes on the map to those locations with the additional feature of checkpoints. The scope of these specific locations will be restricted to the United Kingdom. However, this will not prevent the user from viewing routes outside of this area. To produce the desired output (which can vary for each individual), the application will take GPX files as an input.

The web application will also have some pre-defined configurations (mostly routes) available for preview.

Using buttons, one can have a preview of several routes tailored to different activities (such as running, walking, cycling or driving) with a few choices for each type of activity. The user would also be able to get an estimate of the required time to complete different routes.
Depending on the selected activity we can display altitude (mean, maximum, minimum), route length, number of checkpoints in the route, average speed and other information based on needs. It will show the route with a line or dots. With a click on the map the user can also get the precise coordinates of the selected area.

User personas and associated scenarios

Persona 1

Name: John Devons

Age: 39

Profile: John is an IT consultant, so he travels a lot to meet different customers each day. He does not have a vehicle to commute to various places to attend meetings with his customers, so he would love to see the best bus routes availble on the map, with a friendly user interface, which he can take from his location.

Scenario: John has a meeting to attend with a specific customer who lives far away. He has to be at the decided venue on time as he is representing the company and he does not want to be late. He wishes to find the fastest and most reliable route to get to the venue.

Persona 2

Name: Leah Tucker

Age: 23

Profile: Leah is from Manchester. She has moved to Glasgow, as she is a recent graduate from University of Glasgow, who just found a job in Glasgow. In her busy schedule, she rarely has time to do any special recreational activities, but she finds adequate time for some physical activities. She likes running, yoga, cycling or going to the gym.

Scenario 1: Leah recently moved to a new flat and she doesn't know the surrounding area that well. She wants to know about the running tracks around her, with an intuitive and easy to use web application. She likes to run on short tracks with a little steepness. All in all, the length and the steepness of the track is important to her.

Scenario 2: Leah will soon be participating in a cycling competition with her two best friends. She will be told about the cycling route for the competition, therefore, she does not need to devise a plan for herself. However, she would be very interested in finding out the average speed of an average cyclist for that route (based on elevation and length). That information could be valuable to her, as the competition is around the corner.

Persona 3

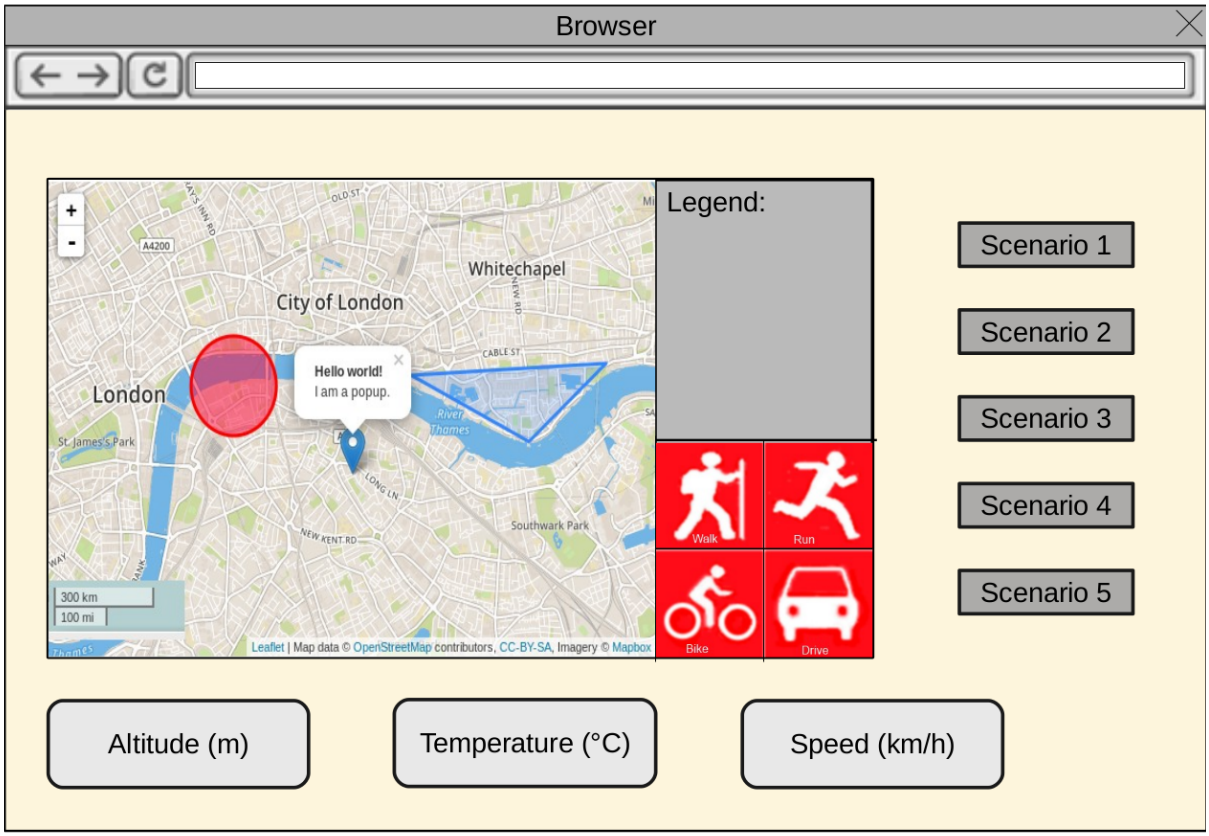
Name: Connor Griffyn

Age: 18

Profile: Connor is currently doing his A-level and is excited to join a university. He and his friends want to apply together for their undergraduate, but they don’t know about any suitable universities yet. Like many others, Connor enjoys playing football and going out with his friends.

Scenario: Connor and his friends have decided to organise a trip for themselves where they will visit their shortlisted universities. Once they have done that, they will have a better understanding of the universities and then they can apply to their favourite institution. For their visit to the universities, they would need an app which would show them the quickest route to the instituions, then they can use the app to find accommodation near the university. In addition to that, they can use the app too see if any other universities are next to each other.

Wire-frames


Browser
Legend:
Scenario 1
Scenario 2
Scenario 3
Scenario 4
Scenario 5
Walk
Run
Bike
Drive
Hello world!
I am a popup.
City of London
Whitechapel
London
Altitude (m)
Temperature (°C)
Speed (km/h)