

**Team Russian Blue**

# **Map Visualiser**

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## Concept

Our web application will display a map (using Google Maps' interface) showing different locations with an image attached (such as universities) or displaying a route on the map with checkpoints. The scope of these specific locations will be restricted to the United Kingdom for practical purposes. However this will not prevent the user from viewing routes outside of this area. To produce the desired output (which can vary between users), the application will take GPX files as 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 checkpoint 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 must travel a lot to different customers each day. He does not have a company vehicle to attend to various customers, so he would love to see the best bus routes to take from location to location on a friendly user interface.

**Scenario:** John has to attend to a specific customer who lives far away. He must do so within a certain time as he has to fill his monthly client quota. He wished to find the fastest and most reliable route to get to the client's home.

## Persona 2

**Name:** Leah Tucker

**Age:** 23



**Profile:** Leah is from Manchester but after going to university in Glasgow she stayed in the city and found a graduate job. In her busy schedule she rarely has time to do what she likes, but she always finds time for some physical activity. She likes running, yoga, cycling and even going to the gym.

**Scenario 1:** Leah recently found a new flat and doesn't know the area well yet. She wants a way to see running routes around her, with an intuitive and easy to use interface. The most important information for her is length of the route and elevation.

**Scenario 2:** Leah will soon be participating in a cycling competition with her two best friends. The route will be provided so she does not need to find a plan herself. However she would be very interested in finding out the average speed of an average cyclist for this route (based on elevation and length) to see how she would compare.

### Persona 3

**Name:** Connor Griffyn

**Age:** 18



**Profile:** Connor is currently doing his A-levels and is feeling eager to go to university. Him and his friends want to apply together but don't know where yet. Like many others, Connor enjoys playing football and going out with friends.

**Scenario:** Connor and his friends have decided to organise a trip for themselves through the universities on their list, so they can decide on where to apply. They need a simple way of seeing their planned route placed on a map, so they can schedule accommodation and activities accordingly. It would also be a plus if they could see the locations of nearby universities (UK).

## Wire-frames

