

Assignment

Write a navigation routes analyzer application.

Create a Django application, server and client.

Database

With the assignment there are 8 files (titled "travel_log_x"), each is a data set containing a time series of GPS samples.

Every GPS sample contains: timestamp (long), longitude (float), latitude (float), accuracy (int) and speed (float).

Each file represents a different (anonymous) user.

Plan and create a database scheme for this data and the below application.

Insert all data in to your database.

Application

Create a client interface for your application.

The client has to include a map, for this you can use a map provider of your choice.

Enable the user to paint a line on the map, and add buttons and user input elements where needed.

Features:

1. Allow the user to select a route and draw the route point by point in the order of the timestamp (so the route is not drawn at once). The points should be drawn chronologically in a delay of your choice.
 2. After the user has drawn a line, allow him to see all routes that cross the line.
 3. Add unit tests.
- If more than one route is presented, use a different color for each route.
 - Please send clean and documented code.
 - Use Django 1.11 in your project.
 - you can use a client framework of your choice.

If any questions arise, or any problems occur, please don't hesitate to contact me:

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