Datumate Front-end assignment

GCP importer

Overview

You will implement a page that receives a file containing a list of GCPs (Ground Control Points) as input, and display them in a table or list.

General requirements

1. You must finish all the required features, and you may add as many of the optional features you want.
2. You should use the Angular framework (or equivalent), and you may use any additional external libraries you choose.
3. Make the page look good using CSS styles.

Required features

1. Import GCP files in CSV format
    a. The file will contain information about GCPs, one GCP per line.
    b. Each GCP must have the following information: name (string), easting (decimal number), northing (decimal number) and height (decimal number).
    c. The file will contain a header line: “name, n, e, h”, but the user can supply a file with columns in a different order.
    d. The file may contain errors, for example: missing data in column, incorrect format in field etc. . Need to show proper error messages to the user.
    e. The user can upload as many files as he wishes, and they all will be displayed together.
2. Display the file contents in a table or list, without repetitions (by the GCP name field).
3. Make GCPs sortable by all fields, and add a filter by the name field.
4. Delete single GCP.
5. Edit single GCP.

Optional (bonus) features

1. Use a state management library (In Angular, use Akita for extra points).
2. Display data (given in meters) in other measurement units (US feet, Intl. feet, yard).
3. Display data (given in EPSG:2039) in other coordinate systems (WGS84 etc.).
4. Display data on map.

5. Use Angular animations.

Example GCP file

```
name,n,e,h
A20,205475.012,706737.991,95.979
A21,205393.373,706717.991,94.873
A22,205255.607,706471.218,76.189
A23,205220.816,706563.085,83.185
B24,205200.801,706648.133,89.236
B25,205279.815,706694.737,91.904
B26,205476.776,706820.538,99.344
B27,205509.897,706629.954,87.978
C28,205543.304,706501.54,81.404
C29,205432.243,706503.959,76.889
C30,205321.01,706491.095,75.766
C31,205309.423,706793.493,102.312
D32,205196.215,706788.003,103.109
D33,205417.539,706805.814,102.103
D34,205297.404,706604.953,83.48
D35,205388.703,706618.45,83.035
```