



# **ELISE – Lot 1: Leveraging the power of location information and technologies to improve Public Services at Local Level: An EU-wide Analysis**

## **Visualization Tool - Installation Guide**

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# 1. Code availability

All code is publicly available via GitHub, at <https://github.com/GeoTecINIT/elise>.

Using GitHub's standard functionality, the code repository can be forked or cloned, or simply downloaded as a zip file.

## 2. Operationalising the ELISE Visualization Tool

This installation guide covers operationalizing the ELISE Visualization Tool using GitHub Pages (<https://pages.github.com>), which was selected as preferred hosting platform under the ELISE Lot 1 project.

The ELISE Visualization Tool can be installed using other hosting platforms that support the basic technologies used (Angular - <https://angularjs.org>, Node - <https://nodejs.org/en/>) in a similar way as described in this guide, yet such installation is not covered in this guide.

### 2.1 Configuring GitHub Pages

To run the ELISE Visualisation tool from Github pages, the latter should be correctly configured to host the website. There are several methods to build and upload to Github Pages, this is the one used in the first released version.

### 2.2 Download code and modify environment variables

First, **create a fork of the repository** <https://github.com/GeoTecINIT/elise> under your own organization / username. You now have your own independent repository and you will work in this repository.

Within the code, environment variables (src/environments/) are used to locate the cases.json file in the new Github repository and to build the URL to share the current state of the web app. They need to be updated to reflect your repository.

To do so, **substitute the 'base\_url' URL** in the files **environment.prod.ts** and **environments.ts**, by the base URL of your repository:

- If your repository was created under an organization, use:  
`https://[ORGANIZATION].github.io/[REPOSITORY_NAME]/#/home`
- If your repository was created under your own username, use:  
`https://[USERNAME].github.io/[REPOSITORY_NAME]/#/home,`

Then, **substitute the URL for 'cases\_json\_url'** in the files **environment.prod.ts** and **environments.ts**, with the new one in the transferred repository. To get this URL, go to src/assets/cases.json and click on the 'Raw' button, then copy the URL.

main elise / src / assets / cases.json

Go to file

aidamonfort Update cases.json

Latest commit 4685633 20 hours ago

History

1 contributor

6614 lines (6614 sloc) 285 KB

Raw Blame

```
1 [
2   {
3     "_id": {
4       "$oid": "eu-2"
5     },
6     "name": "Mobile Positioning Data as a Source for Aggregated Human Mobility Statistics (MOBPOSSTAT)",
7     "source": "https://cordis.europa.eu/project/id/673128",
8     "description": "Mobile positioning data can increase our understanding of movements in society and for businesses it helps map the locations of its",
9     "pub_date": "2015",
10    "geographic_extent": {
```

## 2.3 Configure Github pages

In the Github website, go to repository settings, and then ‘Pages’ in the left menu. Select the branch ‘gh-pages’ as the source for building the web page (click save).

General

Access

Collaborators and teams

Team and member roles

Moderation options

Code and automation

Branches

Actions

Webhooks

Environments

Codespaces

**Pages**

Security

Code security and analysis

Deploy keys

Secrets

Integrations

GitHub apps

Email notifications

Autolink references

GitHub Pages

GitHub Pages is designed to host your personal, organization, or project pages from a GitHub repository.

✓ Your site is published at <https://geotecinit.github.io/elise/>

Source

Your GitHub Pages site is currently being built from the gh-pages branch. [Learn more.](#)

Branch: gh-pages / (root) Save

Theme Chooser

Select a theme to publish your site with a Jekyll theme. [Learn more.](#)

Choose a theme

Custom domain

Custom domains allow you to serve your site from a domain other than geotecinit.github.io. [Learn more.](#)

Save Remove

Enforce HTTPS

— Required for your site because you are using the default domain (geotecinit.github.io)

HTTPS provides a layer of encryption that prevents others from snooping on or tampering with traffic to your site. When HTTPS is enforced, your site will only be served over HTTPS. [Learn more.](#)

**Publish privately to people with read access to this repository**

Try risk-free for 30 days or [learn more about changing the visibility of your GitHub Pages site.](#)

×

## 2.4 Generate a personal access token for GitHub Repository

To upload files to a GitHub repository, GitHub is no longer allowing username & password authentication (since August 2021). Instead, a personal access token is now required, which needs to be created in the GitHub repository that requires access.

To create a personal access token, please follow the GitHub documentation (create it for your ELISE repository):

<https://docs.github.com/en/authentication/keeping-your-account-and-data-secure/creating-a-personal-access-token>

When creating the personal access token, providing full “repo” permissions should be enough (even though further permissions may be required depending on your github setup).

## 2.5 Build the app and upload it to the gh-branch

For the changes in the environment to be reflected (done in step 2.2), the app needs to be built on your development computer (for example, your local computer) and then this build needs to be uploaded to the gh branch (set up in step 2.3). First, install the necessary tools on your development computer to be able to build the ELISE Visualization Tool:

- Node.js - <https://nodejs.org/en/download/> (developed and tested with version 14.16.1)
- Angular CLI: 11.0.4 - <https://angular.io/cli> (developed and tested with version 11.0.4)
- Git - <https://git-scm.com/book/en/v2/Getting-Started-Installing-Git>
- npm: included with Node.js

Installing more recent versions of the above libraries may lead to warnings or errors while building the project.

Now, from GitHub, clone your ELISE repository to the development computer, and on the development computer, go to the folder of the repository using the terminal, and run the following commands:

Install the app dependencies (warnings may occur when using more recent versions of node.js - 14.16.1 - and angular CLI - 11.0.4):

```
→ npm --force install
```

Install the github pages cli:

```
→ npm i angular-cli-ghpages --save-dev
```

Build the app with the new repository URL:

*For a repository created under an organization:*

```
→ ng build --prod --base-href "https://[ORGANIZATION].github.io/[REPONAME]/"
```



*For a repository created under your own username:*

```
→ ng build --prod --base-href "https://[USERNAME].github.io/[REPONAME]/"
```

Upload the build to the Github pages (when prompted for username, provide your GitHub username; when prompted for password, provide your personal access token as created in step 2.4):

```
→ npx angular-cli-ghpages --dir=dist
```

Once the upload is successful, you should see the following or similar message:

```
 Uploading via git, please wait...  
 Successfully published via angular-cli-ghpages! Have a nice day!
```

## 2.6 Visit URL and check website works

For deployment under an organization: [https://\[ORGANIZATION\].github.io/\[REPONAME\]/](https://[ORGANIZATION].github.io/[REPONAME]/)

For deployment under a user account: [https://\[USERNAME\].github.io/\[REPONAME\]/](https://[USERNAME].github.io/[REPONAME]/)

## 3. Credits

All code was developed by the GEOTEC research group (<http://geotec.uji.es/>) of the Universidad Jaime I (<http://www.uji.es/>), Castellón, Spain, as part of the European Location Interoperability Solutions for e-Government (ELISE) Lot 1 Project carried out for the European Commission's Joint Research Centre (JRC).