

Address map

Development assignment

1 Requirements

Build a web application which:

- displays a map
- reads a list of geocoded addresses from database (using REST API service)
- displays a list of the addresses
- when an address is selected, jumps to the specified location and displays a pin (symbol) in the map

Access to the application must be authenticated.

2 User workflow

- User opens the URL
- Application redirects the URL to login page of specified OpenID Connect provider
- User logs in and is redirected back to application
- Application displays the map and list of addresses
- User selects an address
- Application moves the map to desired location and displays a pin at the location

3 Preferred technologies

3.1 Web

- Angular (7.x or newer)
- Angular Material components
- OpenLayers
- OpenStreetMap (OSM) as map source
- Proj4js (coordinate transformation)

3.2 Server API

- ASP.NET Core 2.2 or newer
- EntityFramework
- OData

3.3 Database

- SQL Server Express or Oracle Express

3.4 OpenID Connect

- KeyCloak