



Application Development for Mobile and Ubiquitous Computing

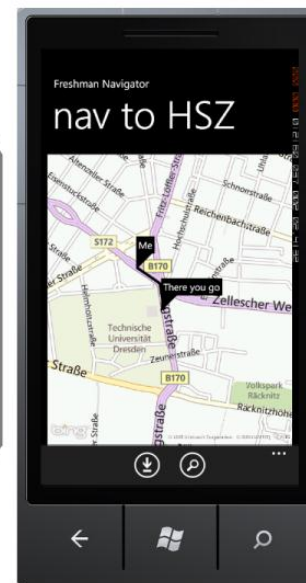
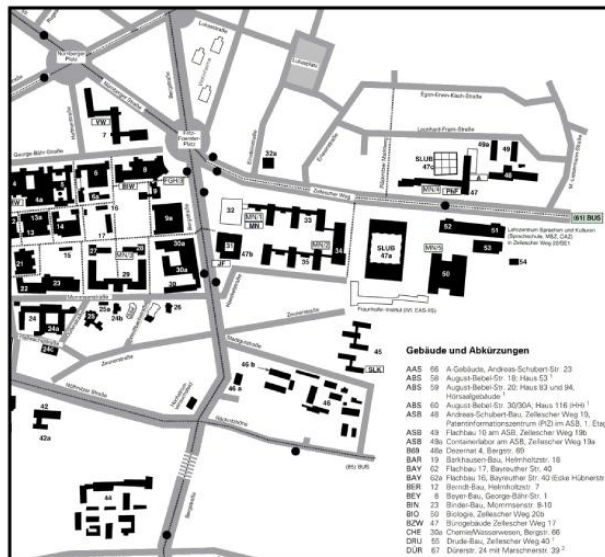
Seminar Task Final Presentation

GroupNo. 12
Team: Robin Wieruch
André Lorenz

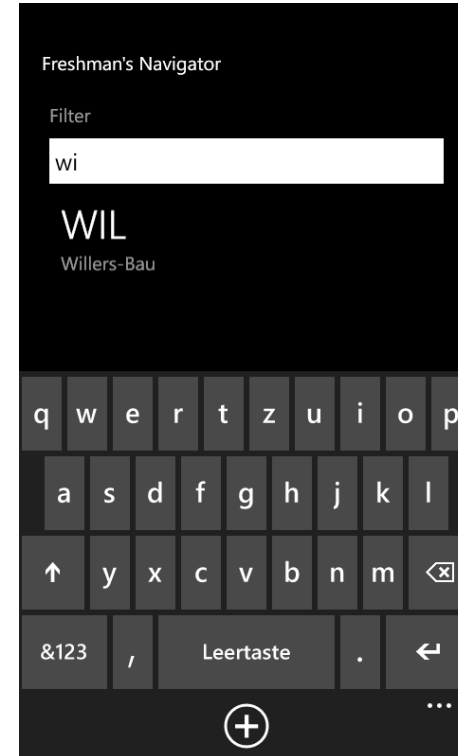
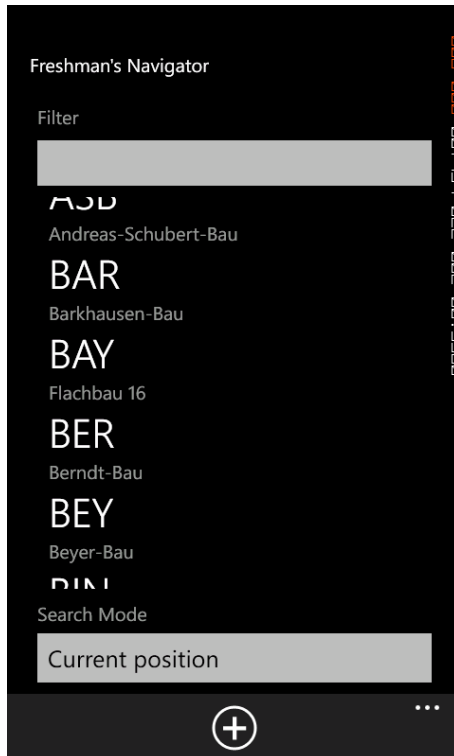


Freshman's Navigator

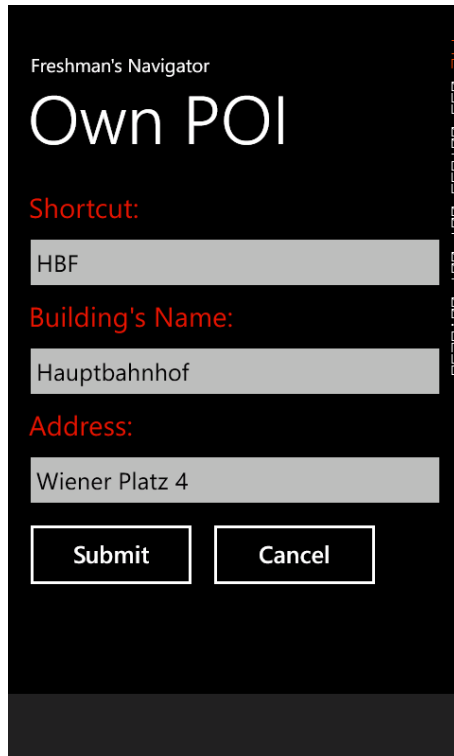
- Navigation across campus
- Use of shortcuts for points of interest



- Local storage holds points of interest (POIs)
- ObservableCollection presents POIs
- CollectionViewSource for sortable ObservableCollection



- Writes new POI with current position in local database
- ObservableCollection updates view



Freshman's Navigator

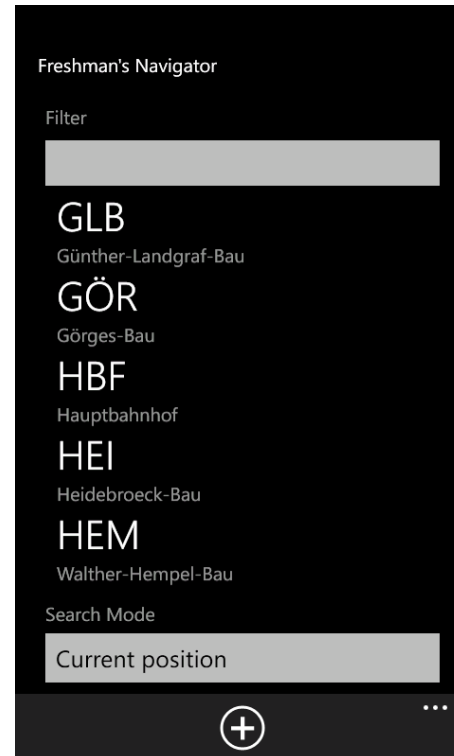
Own POI

Shortcut:

Building's Name:

Address:

Submit Cancel



Freshman's Navigator

Filter

GLB
Günther-Landgraf-Bau

GÖR
Görges-Bau

HBF
Hauptbahnhof

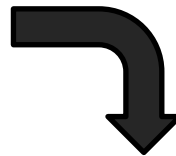
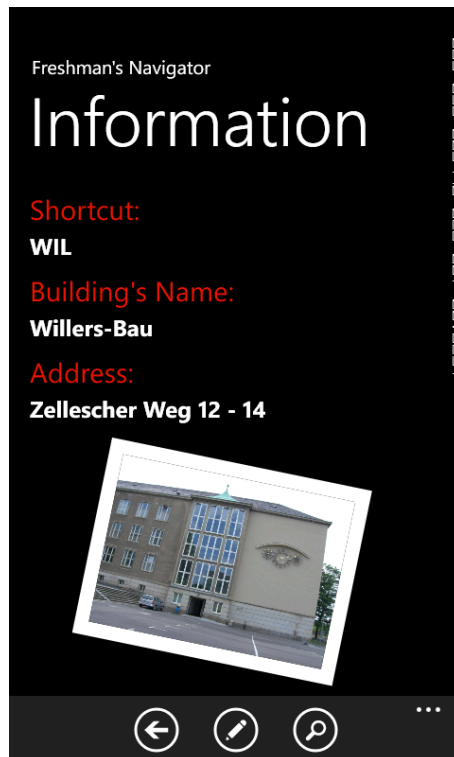
HEI
Heidebroeck-Bau

HEM
Walther-Hempel-Bau

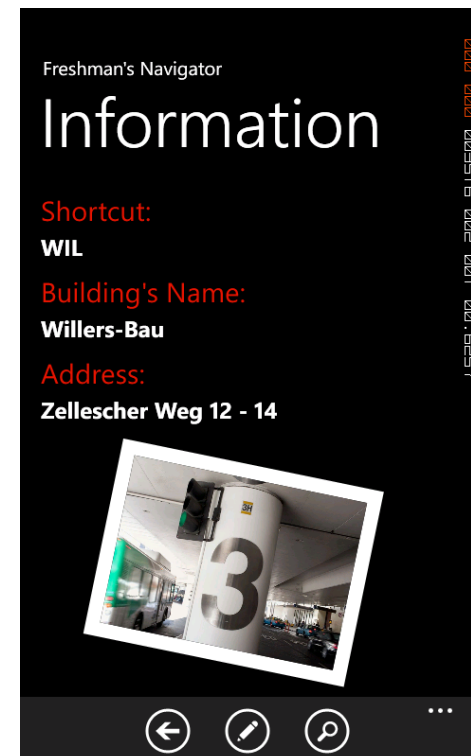
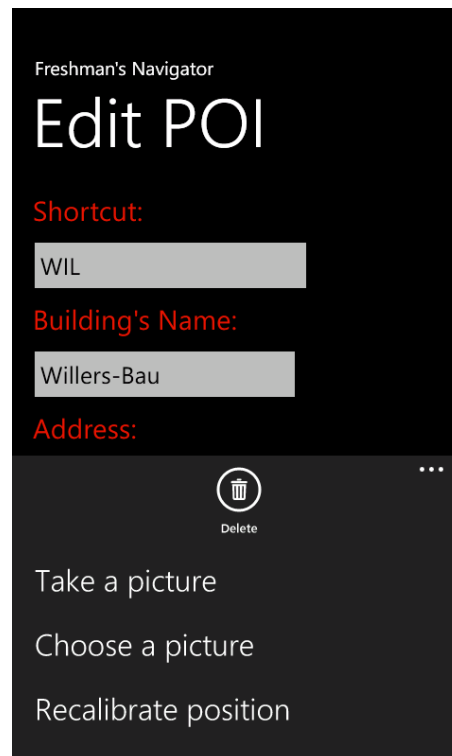
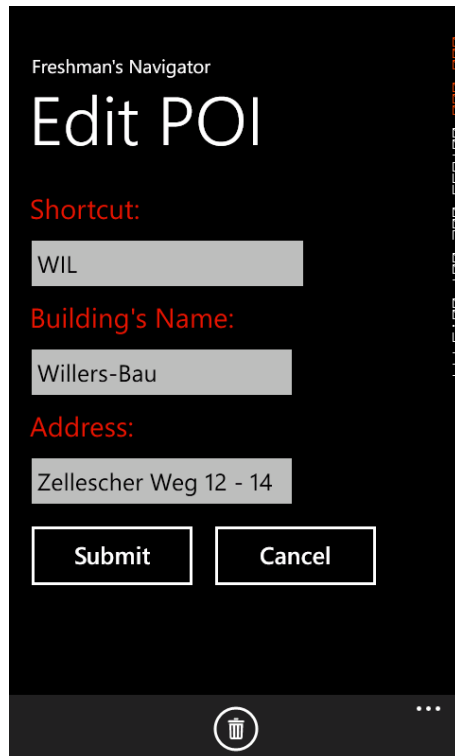
Search Mode

+

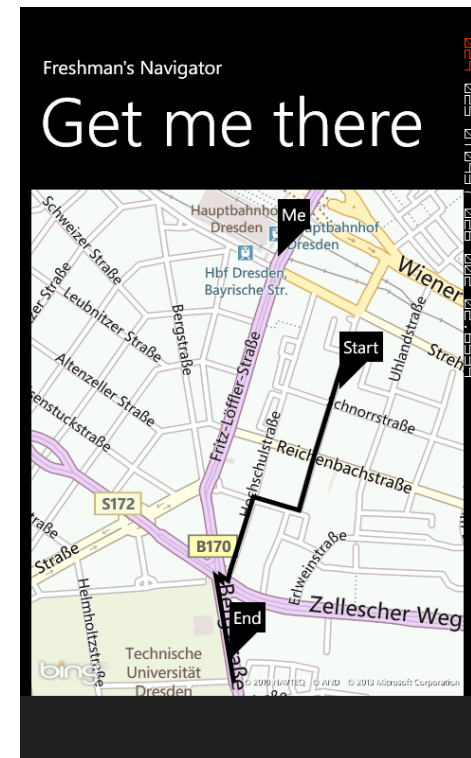
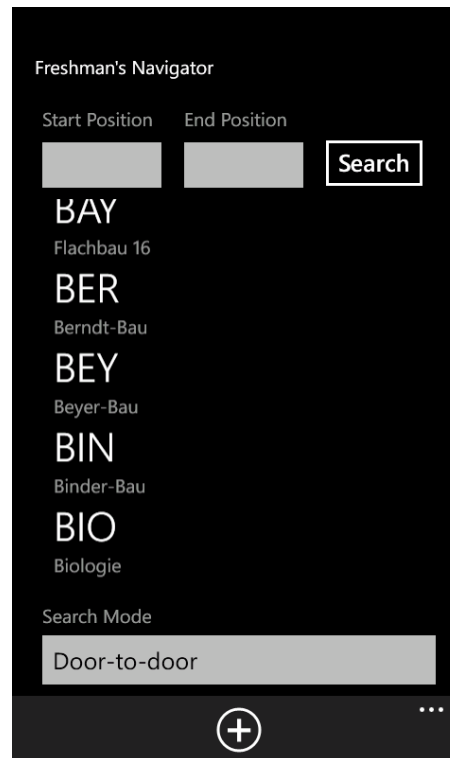
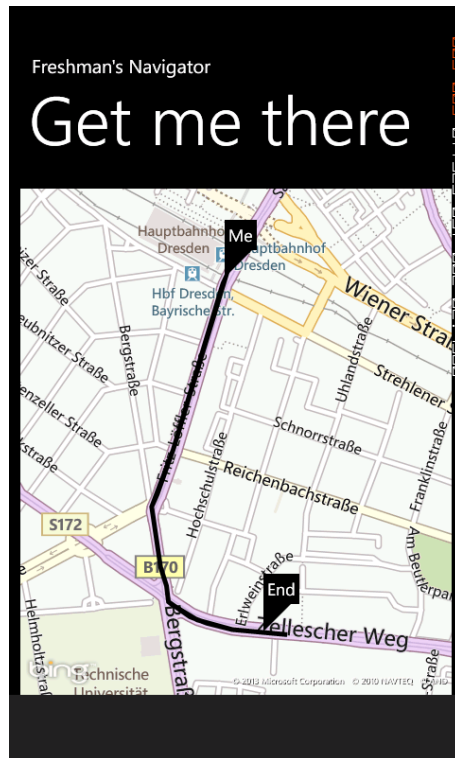
- Reads images of POIs in IsolatedStorageFile
- Portrait- and landscapemode supports different content

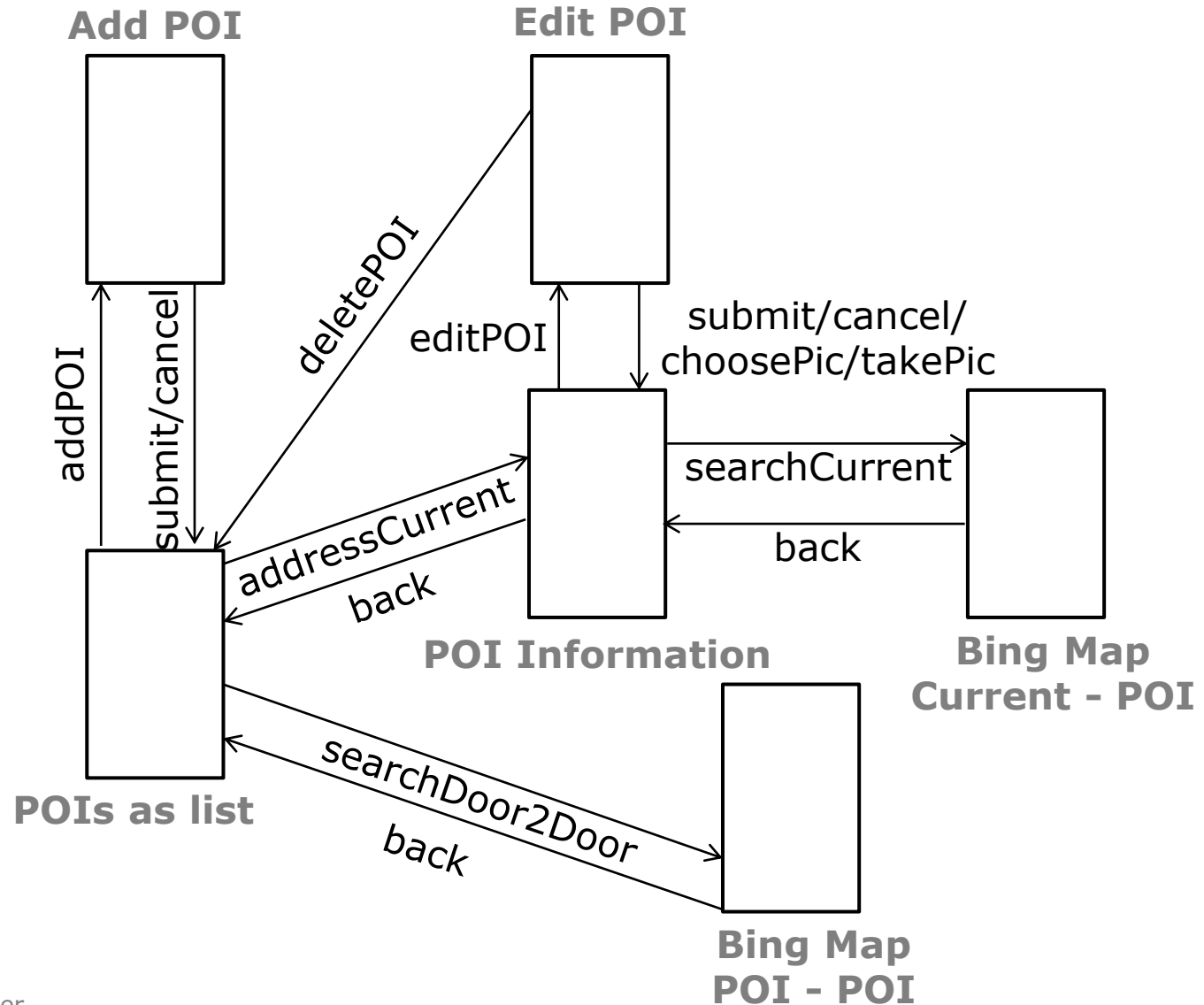


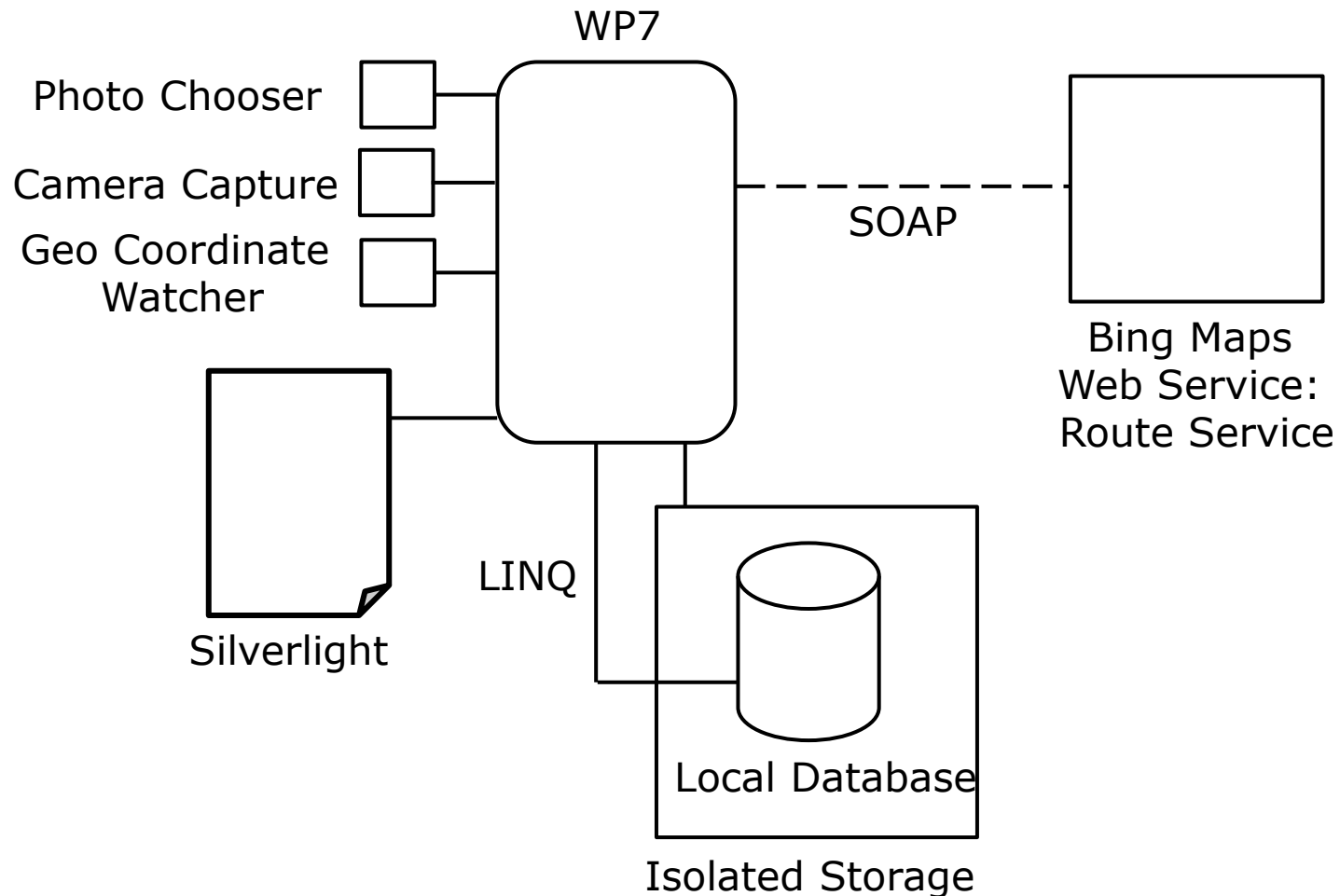
- Updates or deletes POI in local storage
- Overwrites image in IsolatedStorageFile for POI



- Supports two search modes: Current position and door2door
- Webservice Communication:
 - Locates pushpins on map
 - Calculates route







- Dynamic Computing Environment:
 - Localization of user through GPS
- Resource Restriction:
 - Location-tracking only on map-view
 - Webservice maps and routes data
- Usability:
 - Recommendations when searching for POI
 - Thumbnail-preview for POI images
- Pit falls:
 - Small screen size for list of POIs + filter options
- Possible extensions:
 - Add own POI with flexible address
 - Include public transport