

## Proof of concept scope

Justice League team  
Community Watch app

For the proof of scope, we managed to achieve everything we planned in the “Project plan”, with only details missing.

To be precise, we fully created and populated the database with data from the official database. We also created data models and APIs for the Crime and Neighborhood concept. Our front-end features a basic display of these concepts, to showcase the APIs in action. We also managed to get a basic working version of the map and we currently show hard-coded markers of crimes. Additionally, we have a basic working version of the filtering mechanism, which allows us to filter crimes based on location and neighborhood. We intend to include filtering by date in the near future.

Regarding the map, we spent time researching useful map APIs and experimenting with them until we settled on one that's appropriate for our use case. For example, we first tried the Google Maps API, but not only we encountered technical difficulties incorporating it but realized it might not work well with the amount of data we have. We decided to go with Leaflet, which seems easier to work with and can handle a higher volume of data. Currently, we are looking at the best ways to showcase the crimes on the map, considering the fact that the exact crime locations we get are not always correct. We are also looking into turning the map into a heatmap.