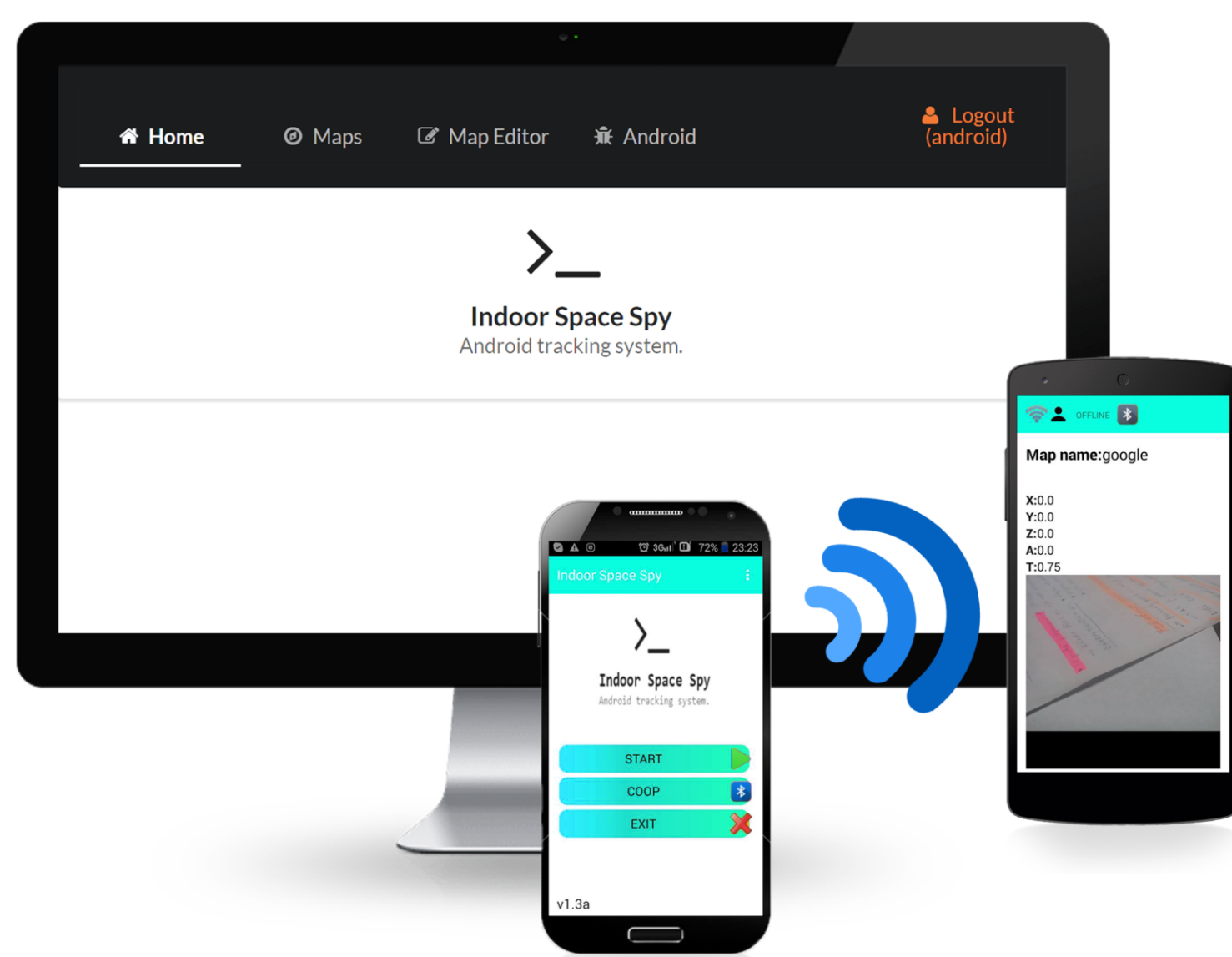
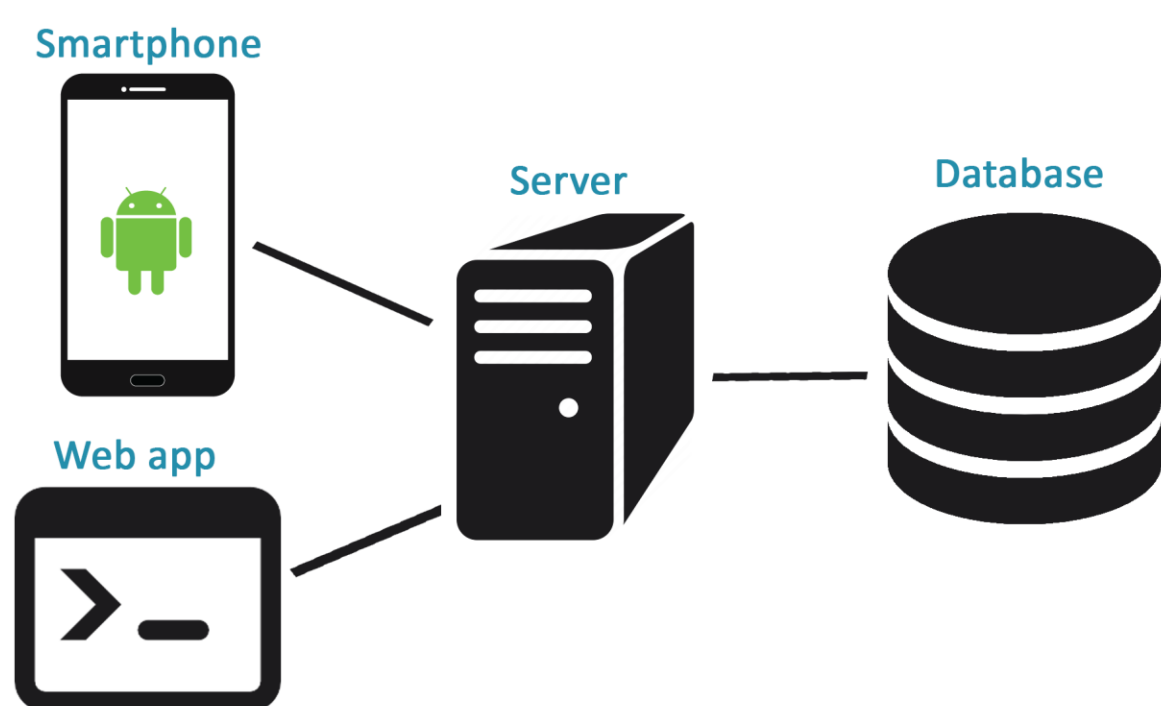


Indoor Space Spy is a tracking system which includes two main components: mobile and web application. Mobile application is focused on coordination measurement within space and sending measured data to server. Also mobile application can work in cooperative mode with another device, which creates media content. Web application is composed of two main parts. First part is based on rest api service pattern, which receives data from mobile device and save them into main database. Second part provides services for users to maintain measured data and provides graphical view of tracked paths.

## Architecture

Mobile application provides both offline and online modes. In online mode user has to be authenticated within authentication gate and then he can start measurement. Offline mode provides feature of saving measured data into mobile filesystem and sending them after he gets online & authenticated. All data is sent to rest api's server, then saved into main database. Web application shows measured data in 3D canvas in editor section.



## Tools & Technologies



Indoor Space Spy supports android 4.4+ and is optimized for android 5.0. The client was built as a native java app.



Web application dashboards and server backend were implemented using spring 4.

Several other tools & technologies were used for planning and development including:



## Future Development

Future development could continue within thesis. It could be focused in many ways such as:

