

INDOOR NAVIGATION SYSTEM ON MOBILE DEVICES

WIFI FINGERPRINTING SCANNING TOOL

Desktop app offers user interface with clickable events, where user can scan new data and save them into the fingerprinting database. Fingerprint contains informations about all surrounding access points with signals strengths.

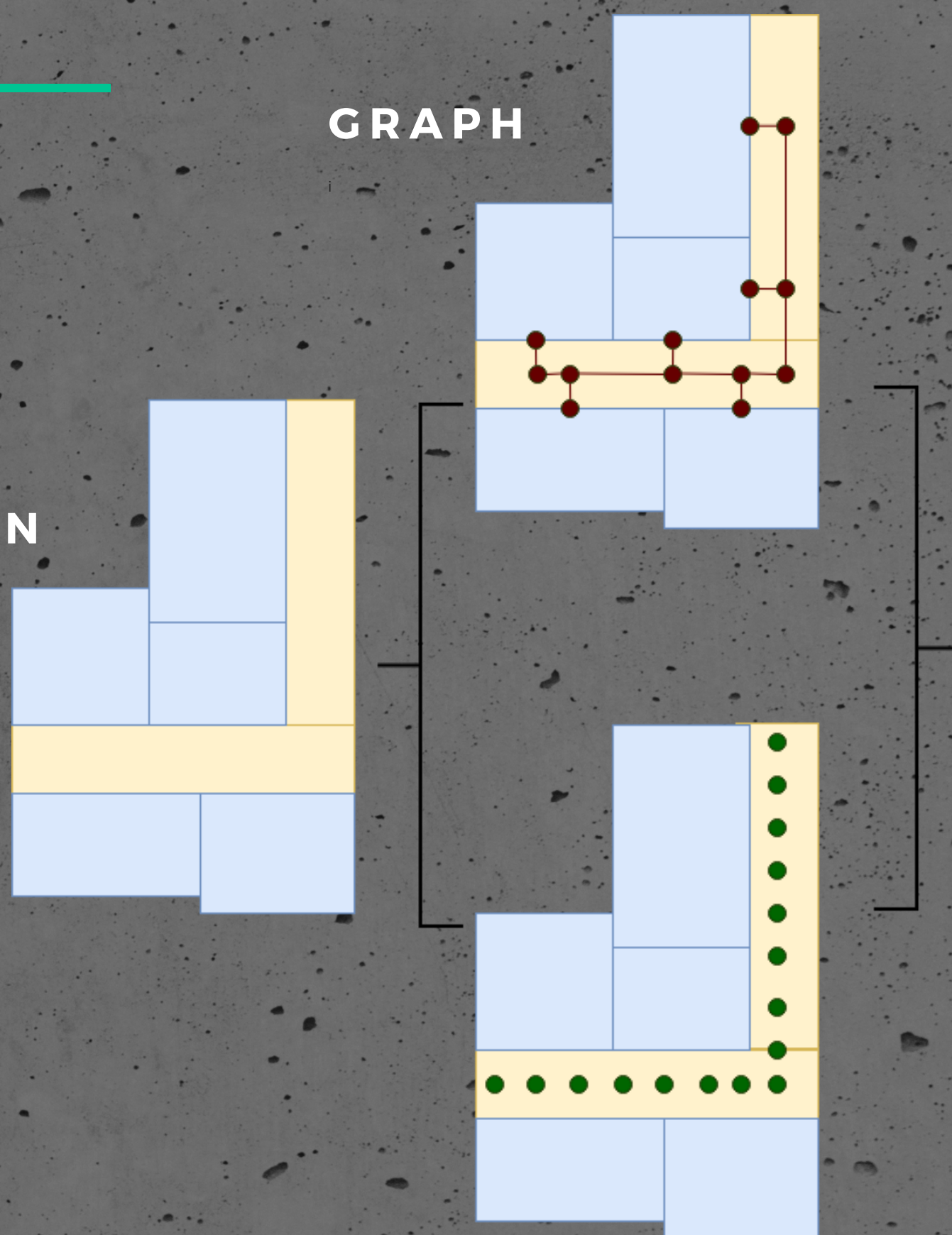
GENERATING NAVIGATION REPRESENTATION

Navigation system is represented by graph and this graph is generated based on building geometric representation.

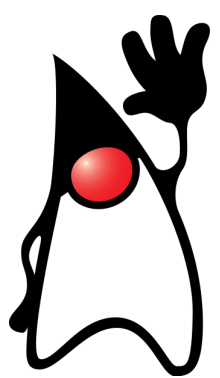
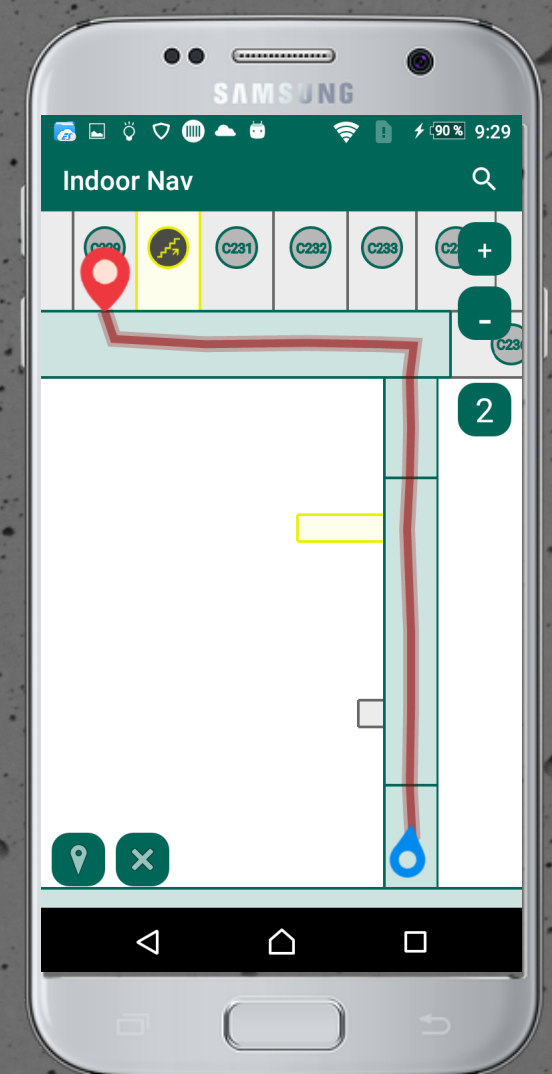
ANDROID MOBILE APPLICATION

Application implements localization algorithm based on wifi fingerprinting and navigation system with Dijkstra's algorithm to find the shortest path to the target.

BUILDING REPRESENTATION



FINGERPRINTING MAP



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