



Neighborhood Watch

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Introduction

Residents' safety is a very important issue to the residents in most neighborhoods. Thus, the following need is filled by our Senior Design Project which aims at designing a Neighborhood Watch application using Swift. This app has sought to improve communality and cooperation as residents are able to both report and prevent suspicion and criminal incidences in projects. Thus, through incorporating the features of contemporary mobile technology, our solution promotes a safer and connected society.

Research

Basing on the development of this project, my main role was to produce the Events feature. Users were also able to sign up for all events with focus on neighborhoods to create more awareness and tight security. Also, I contributed to making changes to the user authentication where profiles could be created and users signed up via Google Firebase Database Authentication. It also let users securely register and administer their accounts. I also implemented options that enabled users to generate new events, join an existing one and search for or exit an event, they had subscribed to. These functionalities are especially valuable as they encouraged the members' activity and their interactions with one another within the framework of the neighborhood.

Conclusion

Neighborhood Watch application is one of the leading innovations that has so far made immense progress in safety issues within the society. This way, we ensured that we designed an effective and strong Event management system that is complemented by a secure User Authentication and consequently, created a tool that will enable the residents of a neighborhood to play an active role in the protection of their area.

