

# Android Based Indoor Navigation Solution for Shopping Malls

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**Abstract.** Nowadays, shopping malls and shopping areas are bigger than traditional markets. When clients are unfamiliar with the area, it can sometimes be difficult to determine where the store is located. This study mainly focused on getting a clear idea about existing Systems and their drawbacks and getting user feedback. This study investigates how identifying difficulties happen in shopping malls and problems in existing Systems related to this research area. This research aims to give the best solution for the indoor navigation system developed for the shopping mall through the mobile application with attractive features. After reviewing related existing papers and conducting a survey using a questionnaire, these were the methods used to gather data for this research work. After using suitable data analysis techniques, provide a clear idea about what will do for future work as a result of this review. This study proved that there is no proper mobile application for customer satisfaction. Finally, conclude that the best solution for this problem is an indoor navigation mobile application based on AR technology. Therefore, using this mobile app, users can quickly and easily find the shops they want in the shopping mall and provide an optimal path using Augmented Reality technology.

**Keywords:** *Indoor Navigation, Augmented Reality (AR), Shopping Mall, Mobile Application*