This project serves the need to automatically identify and track the location of objects and people in usually within a building or other contained area. The development and implementation of the Apache Sever are playing the key role in this indoor navigation system, and the results obtained will be displayed on the monitor using a suitable graphical User Interface. This project is an alternative to GPS and is able to measure the position of the person inside a building. With this scheme, the accuracy of positioning can be dramatically improved, especially in offices and closed areas. Preliminary results show that this idea is feasible. System designs must consider that at least three independent measurements are needed to unambiguously find a location. For smoothing to compensate for stochastic (unpredictable) errors there must be a sound method for reducing the error. Budget significantly.

The major consumer benefit of indoor positioning is the expansion of location-aware mobile computing indoors. As mobile devices become ubiquitous, contextual awareness for applications has become a priority for developers. Most applications currently rely on GPS, however, and function poorly indoors. Applications benefiting from indoor location include:

Augmented reality, School campus, Guided tours of museums, Shopping malls, Store navigation, Warehouses, Airports, bus, train, and subway stations, Parking lots, Targeted advertising,

Social networking, Hospitals, Hotels, and Sports.

User Stories:

As an old man, I want to use the product easily so that I can find a suitable way for my plan.

As a non-tech user, I want to use it to find a shortest path to get my destination without complex interface.

As a businessman, I want to find the exact destination in a new building by using this indoor navigation.

As a student, I want to get the best route plan for multiple class in one building by using this indoor navigation.

Will add more in the future.