

CHAPTER 1

INTRODUCTION

1.1 Background

Queue is a row order rule which has its own pattern. Pattern or sequence has the principle of adding rows and subtracting queue lines. Sometimes there is often a problem in the queue rules. Where someone has a queue first and does not come when called and then by other people queuing to make a complicated issue. So with the problems that there are many ways to line up well and set the path with First In First Out (FIFO), Array, Linked List. Most queue problems are often addressed by using FIFO because it is essentially a queue concept using the FIFO concept. But over time queue problems can be solved in various ways and concepts with various special provisions.

Phone has a tool that can also be called location tracker or Global Positioning System (GPS). Given the special provision of GPS that can address queue issues can be resolved. GPS itself is a system that allows mobile users to view the user's position accurately with the help of satellite. But the GPS accuracy itself is limited to the signal captured from each satellite. The GPS phone is not a map system but is a navigation system aided by Global Navigation Satellite System (GNSS) signals.

A location-based queue is a phone user that from a tracking system will assign location based on location information provided to its tracking system. With the systematic location based queue, the GPS can be used to overcome various queuing problems. By using GPS, every queue can be tracked and sorted based on the closest distance to the service location.

This project intends to develop a location based queue system which is powered by Google Application Programming Interface (API) which require GPS

system to track user is during queue. The result of this project location is in the form of Android Application.

1.2 Scope

The problems above the project are limited by:

1. This project focuses on location based queue implementation.
2. This project implemented in the form of Android application.
3. This project focuses on GPS utilization with the help of Google Maps API.
4. The Android application uses client server architecture.

1.3 Objective

The purpose of this project is to develop a location based queue application for Android mobile devices to help users to queue anywhere.