CHAPTER 3
RESEARCH METHODOLOGY

3.1 Analysis
The first step to complete this project is by analysing the problem. The following problem that may occur are:

1. The using of Google Maps API have limited to around 1000 request per day, which calculated as the number of queries sent and received by the client applications from API server.
2. The applications took some times to display stores on the map based on nearest location.

3.2 Design
There are two applications in this project. They are Store Admin and Customer. Each application works by different way, they are:

1. The store admin can see order data from the customers and update order status, also see history of orders.
2. The customers can choose store that appear based on the nearest location on the map, then choose the items displayed.

3.3 Implementation
To complete the application there are steps are done. The steps to make store admin application are different with customer's. The differences are:

1. Make login for store admin in the firebase database.
2. Make login and register for customer in the firebase database.
3. Make list store and list item which would be admin inputed stores to the firebase database.
4. Application for Customers, create map to locate and display stores based on nearest location using Google Maps API and markers can be clicked to go to order items.

5. Application for Store Admin, display orders at each store with status “Pending”. After the orders delivered, status can be updated to “Terkirim”.