ABSTRACT

South Korea is one of a popular country nowadays that makes it visited by overseas travelers. But, any travelers in general has a problem when finding a worship place because the majority of South Korean citizen is not religious. One of the worship place that difficult tofind is mosque. The purpose of this thesis is to make an application that can help travelers to find the nearest mosque from their position and give the detail route to that mosque. This application is made in mobile platform on the Android operating system.

Application to search and guide for mosque made in this thesis use an object-orieted software engineering. This application using GPS or data provider to locating device position. Furthermore, this application also using Google Maps API to describe device position, nearest mosque, and route to the nearest mosque. Mosque datas obtained from PUMITA, consisting of eight large mosques in South Korea. Searching the nearby mosque using exhaustive search method. Distance matrix used is euclidean matrix.

Application evaluation performed with test the functionality of the application (to find nearest mosque and draw the route to the nearest mosque). Application made in this thesis successfully determine the nearest mosque from various position and give the route to that mosque.

Keywords: *Android Google Maps API, GPS, Mosque, search*