

## ABSTRACT

Traffic jam is one of the major problems facing big cities like Jakarta. Therefore, the government tried to overcome the problem in various ways. One of them with the construction of public transportation called TransJakarta (or often called a busway). With many corridors that have been built, of course, will make this transport *users* are confused to find a route or a fleet that can make them to the location they want.

In this final project, the author make an application that aims to allow *users* to find routes TransJakarta TransJakarta, making it easier for them to find a location or destination they want. In this application, there are three main menu search TransJakarta routes from shelter to shelter, route search based on location, and routing from the GPS position to the destination. In the making of applications using the Java programming language and XML, and SQLite is used as the database. And for testing, the method used black box, white box, questionnaires, and response time.

From the test results with as many as 30 people total respondents, 50% stated that this application is attractive menu display. A total of 67% said this application has a full menu, which is based routing shelter, based on location, and routing of *user* position to the place that they want. A total of 83% said this application has the appropriate information about the TransJakarta lane on operations, from corridor 1 to corridor 10. By testing the base path, this application has a complex procedure with conditions quite a lot and has a value 11 of siklomatis complexity.

Key words: Transjakarta, GPS, Android