Universiti Teknologi MARA

The Shortest Route of The Potential Companies for Internship Using Dijkstra's Algorithm

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ABSTRACT

Nowadays the developments in technology are very fast. The technology company race each other to create a name in this field. Technological development also affects the detection field. Today many methods invented by experts in technology to facilitate the public to make any finding on whether static or dynamic detection. Coordinates are used to mark the position of an object by using the Global Positioning System (GPS). This project proposed to solve problem faced by computer science student to find the company that provide internship and most nearest to them. The data such as coordinate of the current student, the coordinate of company and the distance between nodes are collected. This application will calculate the data to find out distance for every company that are nearest to the student current position. However, for optimum distance, dijkstra algorithm has been used. This algorithm is one of the algorithms used for getting the lowest cost search path. In other words, dijkstra algorithm used to find the best route to arrive at the every company that are related for this project. As the output of this project, the list of company will be displayed and sorted based on distance. The nearest one will be at the top followed by another companies. Base on listed companies, the student can choose the best company for them to make the internship. For the future work, this application can run on another platform so that the students who are not android users can used this application. This application also should change into dynamic form so that this application can add and make the same process for the new register company.

Keywords: Dijkstra Algorithm, Global PositioningSystem (GPS,) detection, path, static, dynamic

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