Android based GPS Navigation System

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Dedication

In the name of Allah, the Most Gracious, the Most Merciful.We would like to dedicate this project to our loving parents who have been a constant support and shoulder to rely on. They have given us inspiration to tackle each and every task with enthusiasm and determination. Their love, affection and belief in us have made us push our limits and aim to aspire a lot more in life.

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Abstract

GPS is a technology that uses data fetched from satellite and shows the pin point position of user location on a map; it can also dynamically update the map using navigation system as user moves from one location to another.

This project is to build an android application for GPS based navigation system. In this project selected Google Maps are available to both the developers and the users. User's current location is shown on the map, whereuser inputs a destination address and is routed towards destination. The route is dynamically updated as user might change or drift away from original route and user would be rerouted to original route. Users can save their current or destination addresses as bookmark that are stored in a database.

The Project is implemented in Eclipse with division of two parts i.e. android development and generating user interface through XML. OrmLite database is also part of the project in order to save history and bookmarks of users.

Table of Contents

List of Figures

List of Tables