A PROJECT REPORT

on

“AN APPLICATION FOR TRIP PLANNER SCHEDULE USING GIS FOR MANGALORE CITY"

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INTRODUCTION

The report documents are to describe the design and planning an application on multi-objective transit itinerary planning system for Mangalore city using GIS. The overall intention is to gather knowledge, acquire skills, be more innovative and master new techniques and implement these to successfully design and plan the application which helps the public to track the public transport using the app in mobile phones.

The aim of the project is to increase the utility of public transport and reduce the travel time. Analysis of the same app concludes that increase the number of passengers using the public transport. The selected design features are traffic congestion, reduced use of public transport, vehicle operation costs and the increase in air quality. The configuration of the app is using

OBJECTIVES

- To create an app to know the location of public bus from departure to arrival and the time and fare of the public bus.
- Integration of GPS with GIS map of Mangalore city for tracking of vehicles on a real time.
- To monitor the bus timing that is moving the scheduled route and the time table throughout the route and identify if there are any deviations.
- To monitor whether the buses are giving halt at all scheduled bus stops.
- Automatic generation and thus eliminating the human related errors involved in the collecting of such data.

METHODOLOGY

- Digitizing the Road Network Data
- Development of GPS System
- Development of Java Scripts for Android
- Development of Error Correction Software
- Development of Analysis Software
RESULTS AND DISCUSSIONS

We created an app to know the location of public bus from departure to arrival and the time and fare of the public bus.

- Integration of GPS System map of Mangalore city for tracking of vehicles on a real time.
- We are able to monitor the bus timing that is moving on the scheduled route and the time table throughout the route and identify if there are any deviations.
- It enables to monitor whether the buses are giving halt at all scheduled bus stops.
- Automatic generation and thus eliminating human related errors involved in the collecting of such data.
- Generation of exception reports like deviation from schedule route, timing, missing bus stops, punctuality factor, etc. based on captured vehicle data.
- We are able to provide billing software to generate automatically, billing details for buses.
- It can dispatch emergency vehicles to breakdown vehicles or vehicles in distress, whenever it is sought.

CONCLUSION AND FUTURE SCOPES

Conclusion

- The application is developed in order to analyze the travel pattern in Mangalore city.
- A GPS system is installed to know the arrival of buses which obtain the real time data which in turn is used in the travel time modeling.

Future Scope

To set up PIS screens in all bus stands so that those who doesn’t own an android phone is also benefited with the application. This would help the users to track the bus and travel without wasting any time in bus stand waiting for the bus. They can instead use the time efficiently.