

Development of an Efficient Public Transport Search Portal for Ghana

Problem Definition

Project Objectives

Methods used

Outcome

Facilities used

Development of an Efficient Public Transport Search Portal for Ghana

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Overview

Development of an Efficient Public Transport Search Portal for Ghana

Problem Definition

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PROBLEM DEFINITION

Development of an Efficient Public Transport Search Portal for Ghana

Problem Definition

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- Road transport is the major means of transportation in Ghana
- \circ Over 95% of all passenger and freight traffic and about 97% of all passenger miles in Ghana is by road
- Majority of passengers mostly rely on public transport services; privately owned or corporate taxis, tro tros (shared minivans), buses commuting between major cities and other places.
- Difficulty in finding detailed information on transport terminals



PROBLEM DEFINITION (CONTD)

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PROJECT OBJECTIVES

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 To develop a web based public transport terminal search portal that provides detailed information about transport terminals to mitigate the difficulty in finding transport terminals and improve trip planning



METHODS USED

Development of an Efficient Public Transport Search Portal for Ghana

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- The system was developed on a local machine
- The system was developed with Python programming language and Django web framework
- Survey
- QGIS was used to process and analyze geo-spatial data collected



OUTCOME

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 An Internet facing transportation terminal search portal, that provides detailed information about transport terminals available



FACILITIES USED

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- General search engines
- Open Data geo-spatial portals with transportation data
- Open Source software repositories such as GitHub
- PostgresSQL with PostGIS extension
- Documentation of any software or libraries used
- University of Mines and Technology (UMaT) library