Opportunity and Significance

The Accra Wala: Digital Mapping Project is an interactive map and digital archiving web application that seeks to combine the Accra, Ghana trotro bus system with cultural experiences and events that occur within the bustling city.

Technical Objectives

• Utilize ethnographic data to create and display trotro stations, trotro routes and itinerary routes in the form of nodes, red lines and green lines respectively on a map
• Display related media and itinerary information based on selected node
• Create an Administrative Environment to maintain, moderate, add, and delete media and itineraries to and from the web application

Technical Approach, Accomplishments and Results

• Filtered and processed data for over 200 trotro stations
• Processed over 600,000 points from ethnographic data to create trotro routes
• Search functionality to locate nodes on map
• Users can view media and itineraries approved by the administrators of the site, both from the map and the media and itinerary pages

Commercialization Plan & Partners

The Accra Wala: Digital Mapping Project was created in partnership with Dr. Jennifer Hart.

References


Technologies

The technologies used to implement this project are as follows:
• Leaflet (Javascript Library that utilizes OpenStreetMap)
• Angular 7
• NodeJS/ExpressJS
• MySQL