

Functions:

Traffic Management: The traffic department is responsible for managing traffic flow in the city or municipality, including traffic signal timing, road closures, and traffic diversions.

Enforcement: The traffic department enforces traffic laws and regulations, and issues fines and penalties for traffic violations.

Road Safety: The traffic department is responsible for ensuring road safety, by identifying and addressing hazards, enforcing safety regulations, and promoting safe driving practices.

Public Education: The traffic department may also provide public education and awareness campaigns to promote safe driving and increase public awareness of traffic laws and regulations.

Public Transportation: In some cases, the traffic department may operate public transportation services, such as buses or trains, and may be responsible for managing routes, schedules, and fares.

App Model:

Traffic Management System: A mobile app can be developed to manage traffic flow by providing real-time traffic updates, suggesting alternative routes to avoid congestion, and providing information on road closures and diversions.

Traffic Violation Reporting: A mobile app can be developed to allow citizens to report traffic violations, such as reckless driving, parking violations, or traffic signal violations, and provide evidence such as photographs or videos.

Road Safety Tips: A mobile app can be developed to provide road safety tips and guidelines, including information on safe driving practices, road hazards, and weather-related driving conditions.

Public Transportation App: A mobile app can be developed to provide real-time information on public transportation services, including schedules, fares, and routes.

Traffic Fines Payment: A mobile app can be developed to allow citizens to pay fines and penalties for traffic violations online, and track the status of their payments and violations.

App Design:

Clear and Simple Navigation: The app will have a clear and simple navigation system that allows users to easily access the different features and information available within the app. Navigation buttons and menus should be clearly labelled and easily recognizable.

Visual Design and Branding: The app will have a visually appealing design that reflects the branding of the traffic department. This includes choosing a colour scheme, typography, and graphic elements that are consistent with the department's visual identity.

Information Hierarchy: The app will present information in a logical and hierarchical manner, with the most important and relevant information displayed prominently on the app's main screen. Users should be able to quickly find the information they need without having to navigate through multiple screens.

User Input and Feedback: The app will allow users to input data, such as their location or a report of a traffic incident, and provide feedback on their actions. This could include notifications, confirmation messages, or progress bars.

Maps and Geolocation: The app will make use of maps and geolocation to provide users with information about traffic conditions, road closures, and alternative routes. Maps should be easy to read and navigate, with clear markers and labels for important locations and landmarks.

Accessibility: The app will be designed with accessibility in mind, making it easy for users with disabilities to access and use the app's features. This includes using clear and easy-to-read text, providing alternative text for images, and ensuring that the app is compatible with screen readers and other assistive technologies.

Security and Privacy: The app will be designed with security and privacy in mind, ensuring that user data is stored securely and that the app is protected against hacking and other security threats. Users will be able to control their privacy settings and have the ability to delete their data if they choose to do so.

Group 3 members

MASILELA N 202061020

MLASI J 201921957

NGHULELE PV 201816691

MAFEO KR 202137036

MPHAHLELE P 202066152

MAMABOLO MT 201932762

MAZIYA N 202029851

MAGAGULA NF 201832926

MANYEKWANE DM 201927138

MOAKAMELO S 202155595

PROJECT PROPOSAL