**Enhanced Routing App Concept**

**Problem Statement**

* Urban traffic congestion causing time wastage and increased fuel consumption
* Lack of efficient routing for multi-modal transport
* Poor user experience in route navigation and data accessibility

**Proposed Solution**

Enhance the existing routing app to address these issues:

**1. Multi-Modal Transport Integration**

* Implement routing options for various transport modes (car, public transit, cycling, walking)
* Provide comparisons between different modes for each route

**2. Real-Time Traffic Updates and Rerouting**

* Integrate real-time traffic data
* Implement dynamic rerouting to avoid congestion

**3. Historical Data Analysis**

* Collect and analyze historical route data
* Provide insights on traffic patterns and congestion points

**4. Improved User Interface (React Implementation)**

* Rebuild the app using React for better performance and scalability
* Implement user preferences for saved routes and transport modes

**5. Data Export for City Planning**

* Enhance CSV and PDF export functionality
* Provide aggregated data insights for urban planners

**Implementation Steps**

1. Refactor existing JavaScript code into React components
2. Integrate APIs for multi-modal transport data and real-time traffic
3. Implement data collection and analysis features
4. Enhance UI/UX with React, focusing on intuitive route creation and visualization
5. Develop robust data export and reporting features

**Expected Outcomes**

* Reduced travel times and improved route efficiency
* Increased usage of alternative transport modes
* Better data availability for city planning and urban mobility
* Enhanced user satisfaction and app adoption

**Measurement Metrics**

* User satisfaction (surveys, reviews)
* App adoption rate and daily active users
* Average travel time reduction
* Frequency of alternative transport mode usage
* Utilization of exported data by city planners
* Estimated reduction in carbon emissions