



جامعة الأمير سلطان بن عبدالعزيز
PRINCE SATTAM BIN ABDULAZIZ UNIVERSITY

PUBLIC TRANSPORT

COMMUNITY SERVICE MOBILE APP
DEVELOPMENT USING FLUTTER AND DART

Web and mobile application development 4940

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INTRODUCTION

Transportation has been a persistent issue, with inefficiencies and difficulties plaguing daily commutes. Whether it's the unreliability of public transport schedules, congestion on roads, or the inconvenience of finding parking spaces, navigating from one point to another has become increasingly frustrating. Recognizing these challenges, I embarked on developing an application to streamline transportation solutions.

By leveraging technology, I aimed to provide users with real-time updates on public transport schedules, alternate routes to avoid congestion, and even options for shared rides to alleviate parking woes.

This initiative seeks to not only address the immediate concerns of commuters but also contribute to more sustainable and efficient transportation systems . Recognizing transportation challenges, we designed this app to provide real-time updates on public transport, offer alternate routes to avoid congestion, and facilitate ride-sharing for smoother commutes, ultimately aiming for a more efficient and sustainable urban environment

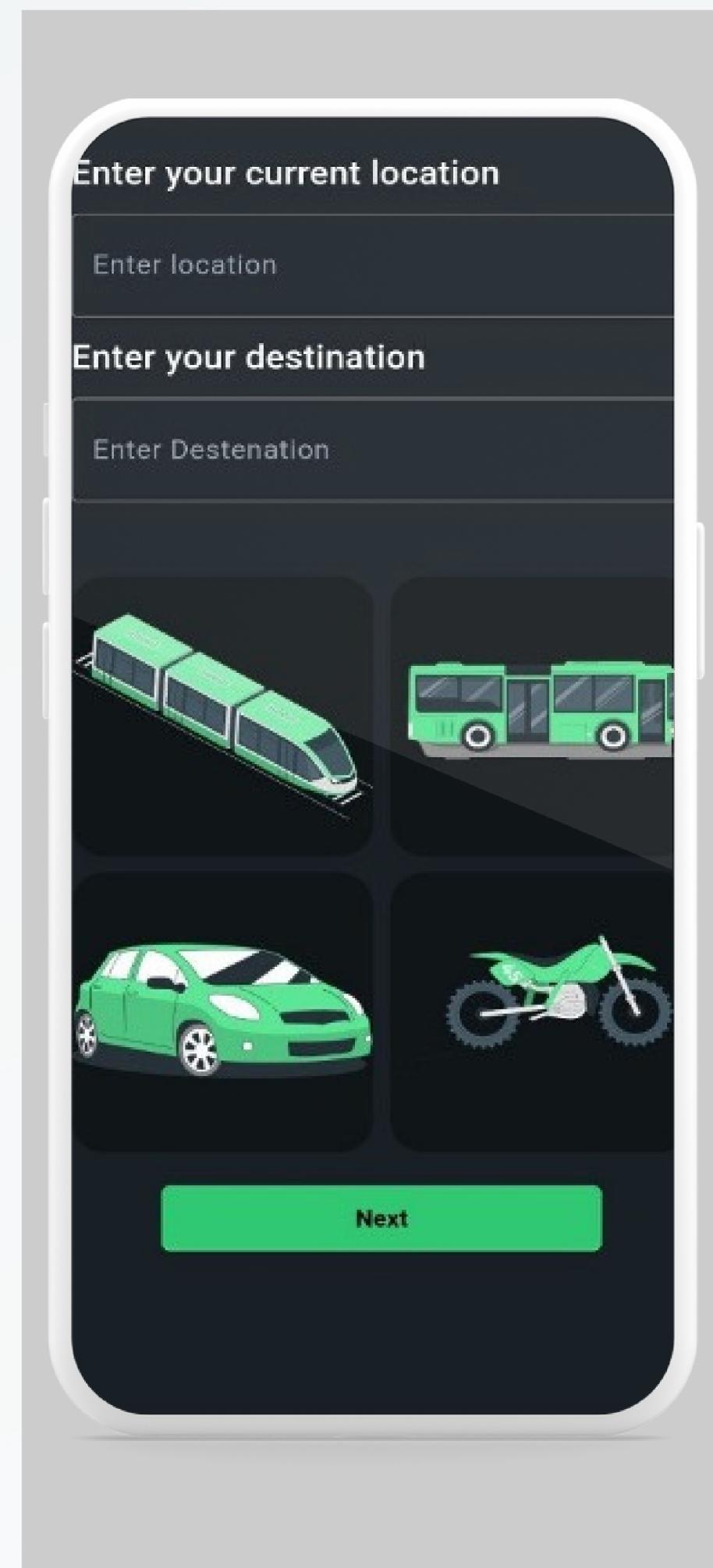
OPPORTUNITIES

Enhanced User Experience: Public transport apps can greatly improve the user experience by providing real-time information on routes, schedules, and delays, helping users plan their journeys more efficiently

Increased Mobility: These apps can increase the accessibility and convenience of public transport, encouraging more people to use it and reducing reliance on private vehicles, which can lead to less traffic congestion and pollution

Integration with Other Services: Public transport apps can integrate with other services like ride-sharing or bike-sharing, providing users with more options for their journeys

Data Collection and Analysis: These apps can collect valuable data on travel patterns, which can be used to improve public transport services, optimize routes, and better allocate resources.



PROBLEMS

Problem 1

Technical Challenges:
Developing a reliable app that can accurately track real-time data and provide timely updates can be challenging

Problem 2

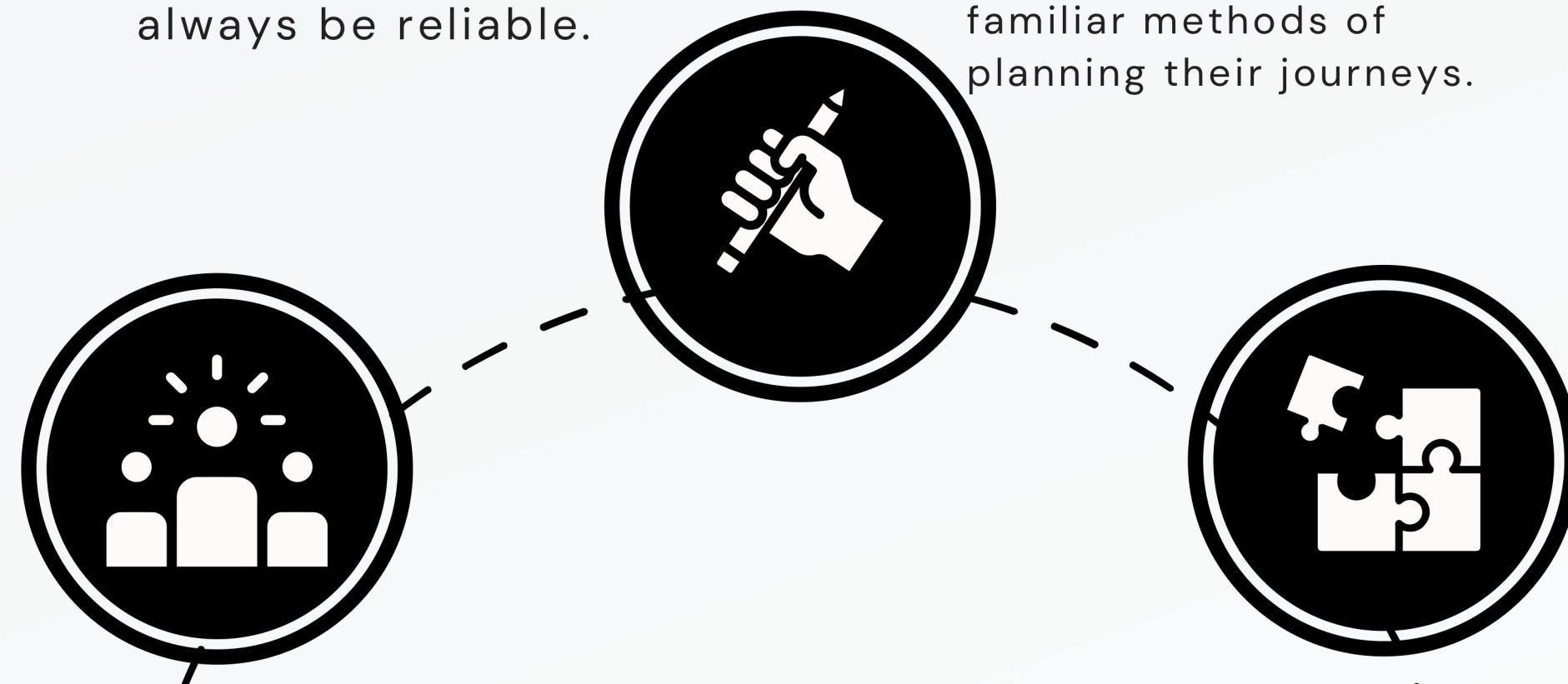
Data Accuracy and Availability: The accuracy and availability of real-time data, such as bus or train schedules, can vary and may not always be reliable.

Problem 3

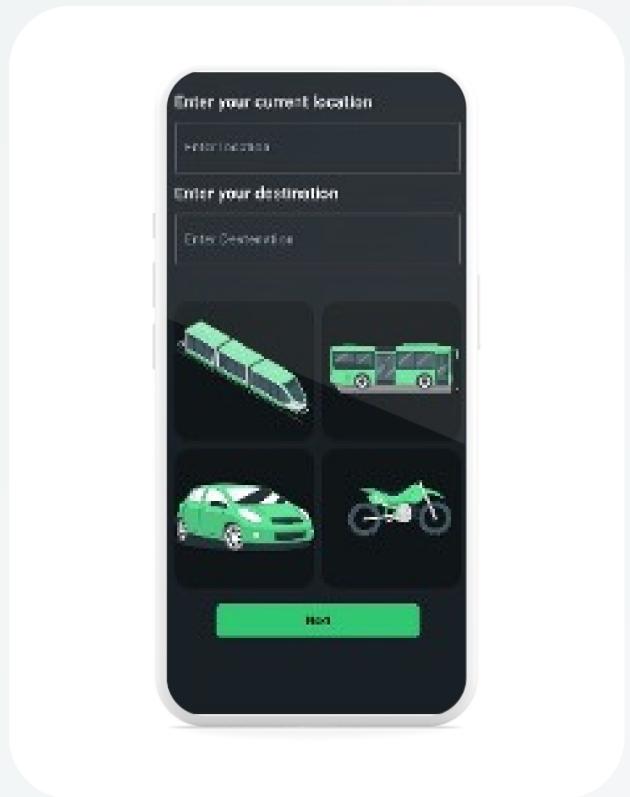
User Adoption:
Convincing users to adopt and regularly use the app can be difficult, especially if they are accustomed to other modes of transport or prefer familiar methods of planning their journeys.

Problem 4

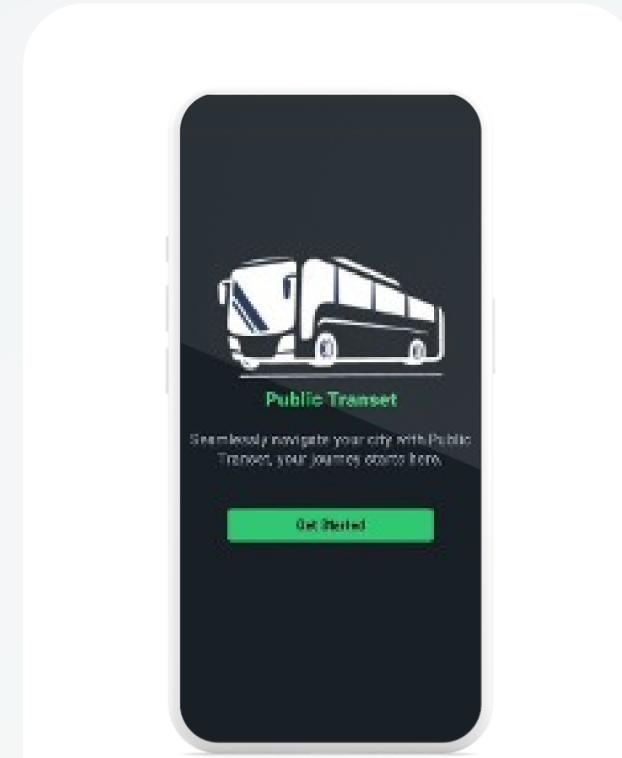
Accessibility Concerns:
Ensuring that the app is accessible to all users, including those with disabilities or limited access to technology, can be a challenge



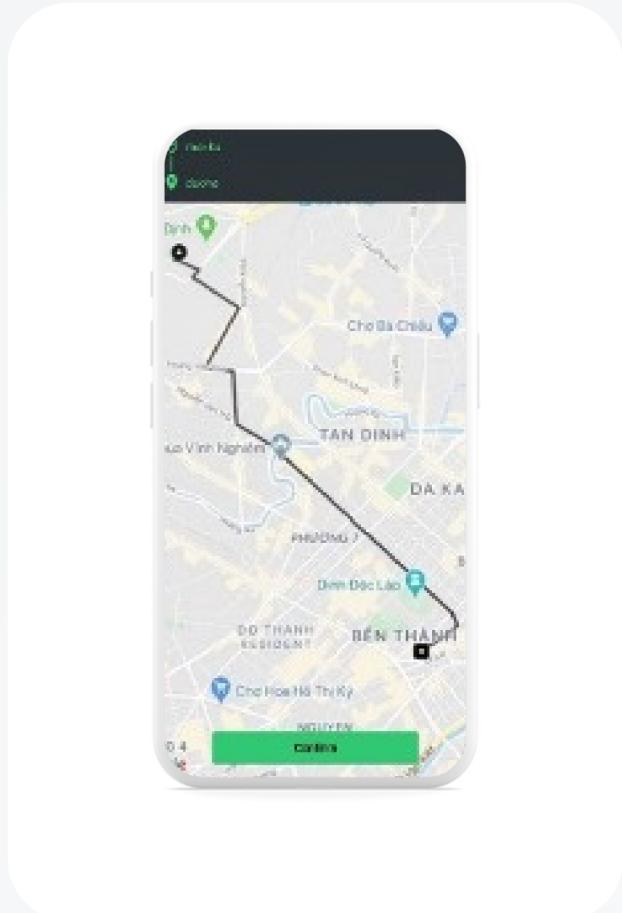
MAIN PAGES



HOME PAGE



SPLASH SCREEN

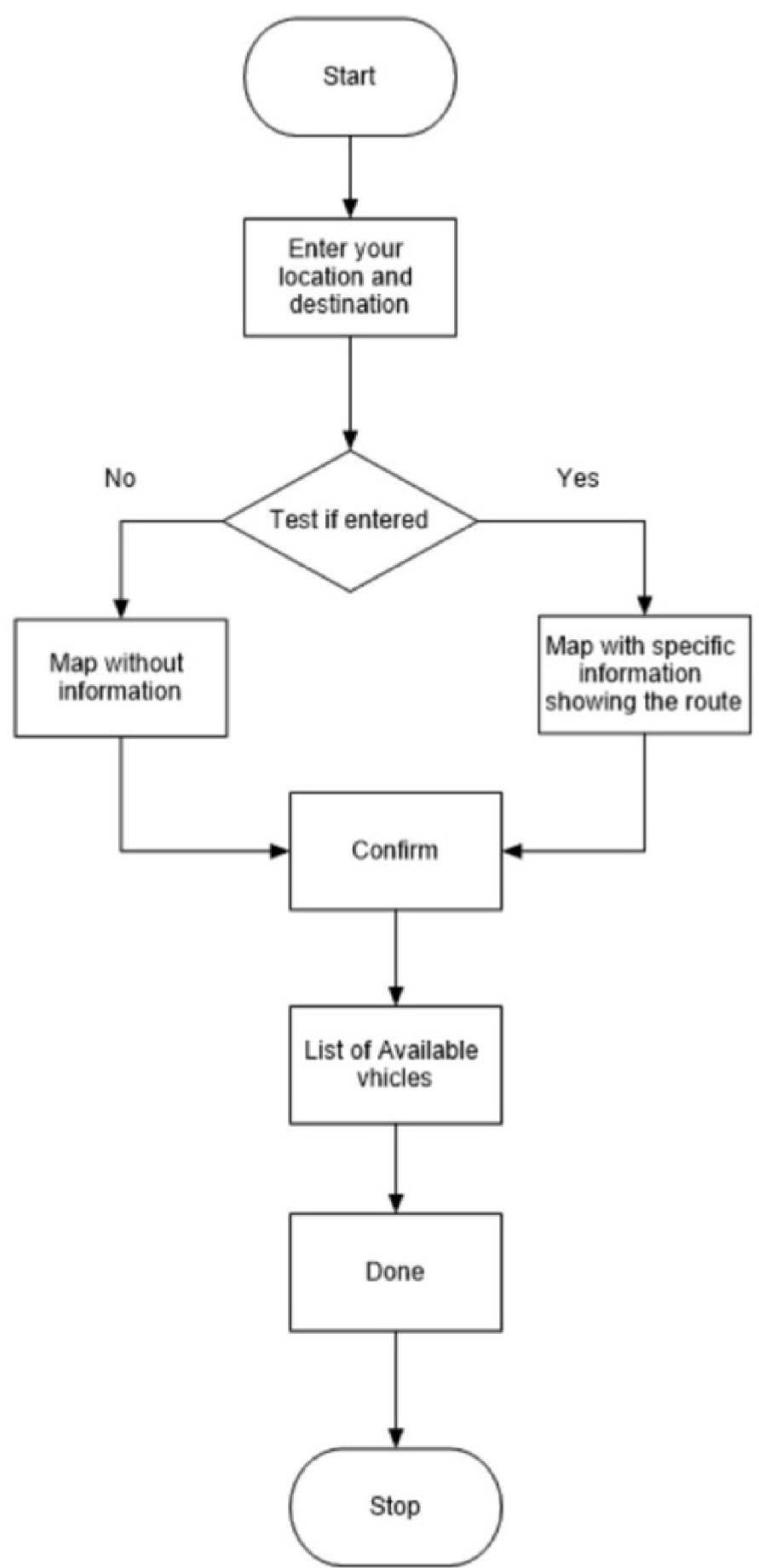


ROAD PAGE



List Page

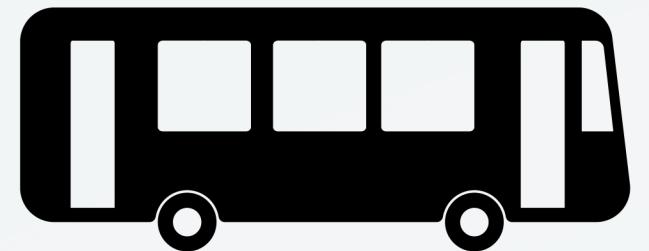
FLOWCHART



CONCLUSION

In conclusion, while public transport apps offer significant opportunities to enhance the user experience and improve mobility, they also face challenges related to technical complexity, data accuracy, user adoption, and accessibility. Addressing these challenges will be key to the success of such apps in improving public transport services.

THANK YOU



*With us, your transportation
becomes easier*

