



APPLICATION DEVELOPMENT

UNIT-30

Prepared By:

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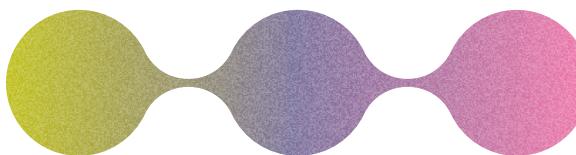
Presented On:

APRIL 4TH 2023

INTRODUCTION

In today's fast-paced world, people are always on the go and looking for ways to save time and increase efficiency. However, the process of paying traffic fines in many countries is still outdated and time-consuming, requiring drivers to physically go to a designated authority to pay their fines.

To address this issue, there is a need for a traffic fine payment application that allows officers to book an offense and send notifications and payment links on the spot. This application would provide a faster and more efficient way for drivers to pay their fines and would also streamline the process for the authorities.



PROBLEM STATEMENT

- The current process of paying traffic fines is outdated and inefficient, resulting in long queues, wasted time, and inconvenience to drivers.
 - There is a lack of a transparent mechanism for tracking fines and payments, leading to errors and delays in the payment process.
 - The application should provide a transparent mechanism for authorities to track fines and payments efficiently, reducing errors and delays in the payment process.
 - The application should include a feature that enables officers to book offenses and send notifications and payment links on the spot, streamlining traffic enforcement and enabling officers to focus on enforcing traffic rules and regulations.
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PROBLEM SOLUTION



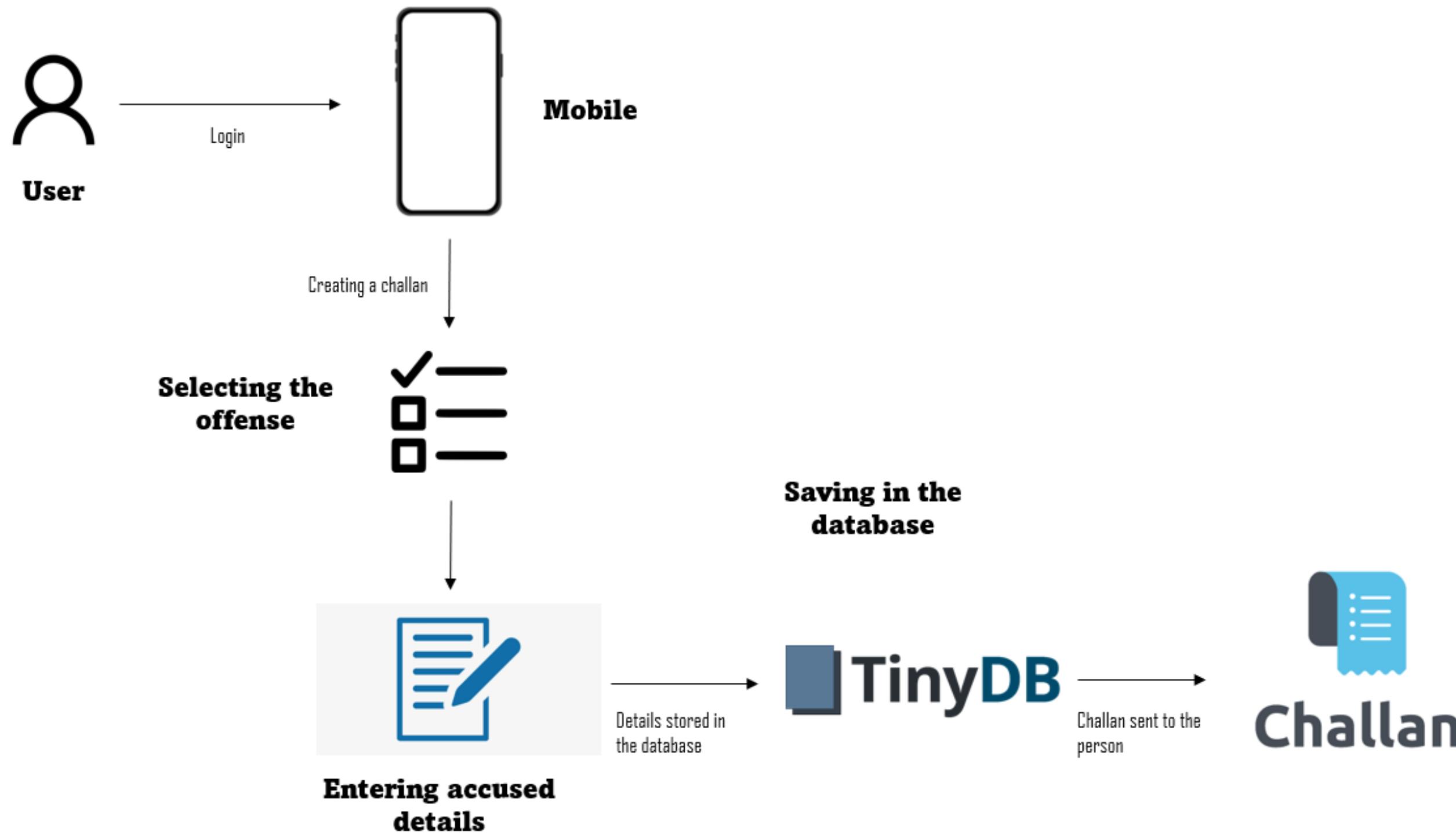
- A traffic fine payment application is the solution
- The application should enable officers to book offenses and send notifications and payment links on the spot, streamlining traffic enforcement.
- The application should be built on a scalable and robust infrastructure.

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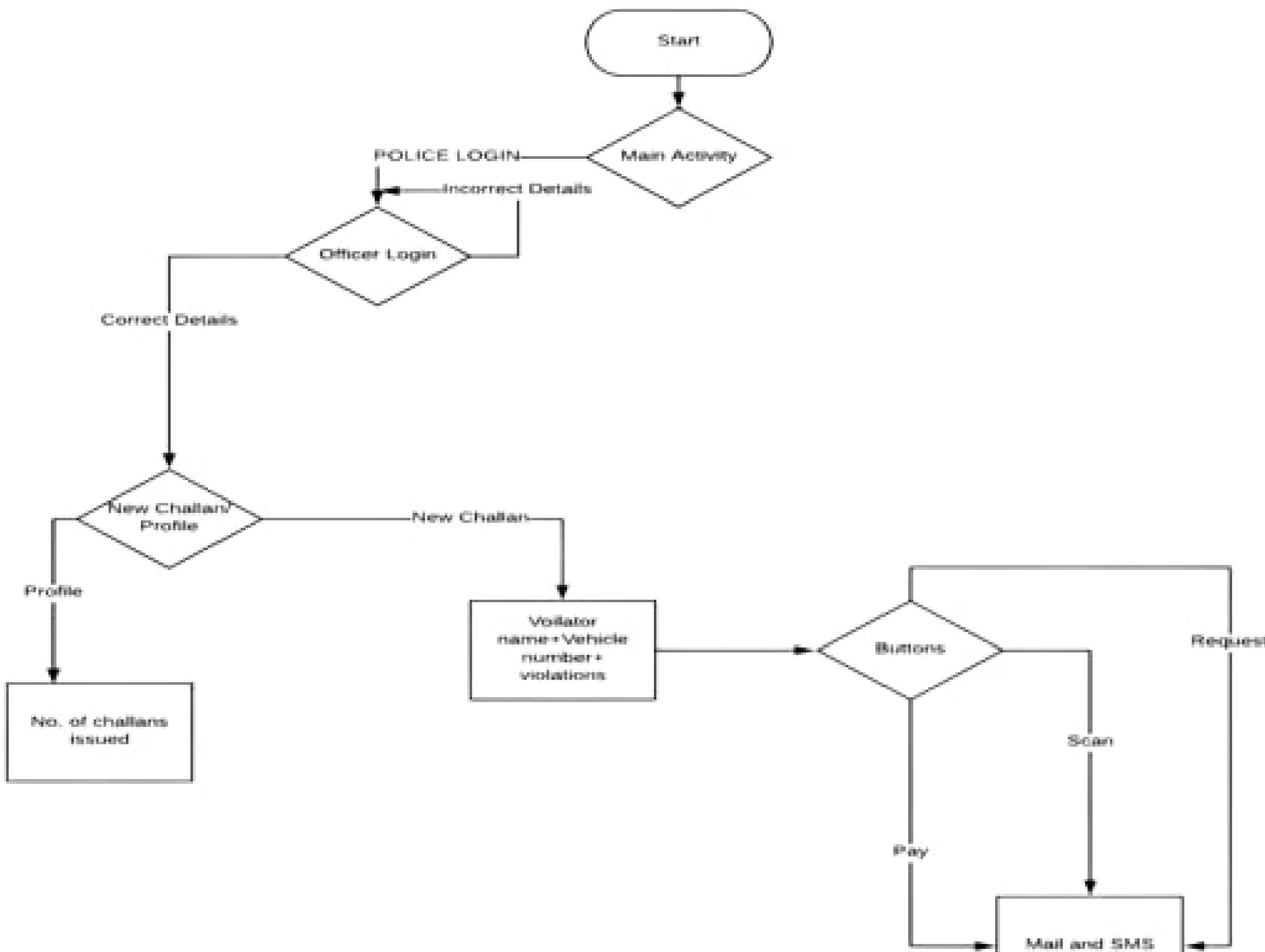
REQUIREMENTS:

- System Requirements
- Functional Requirements
- non-Functional Requirements
- hardware requirements
- software requirements

SYSTEM ARCHITECTURE



DATA FLOW DIAGRAM



TOOLS USED:



MIT APP INVENTOR



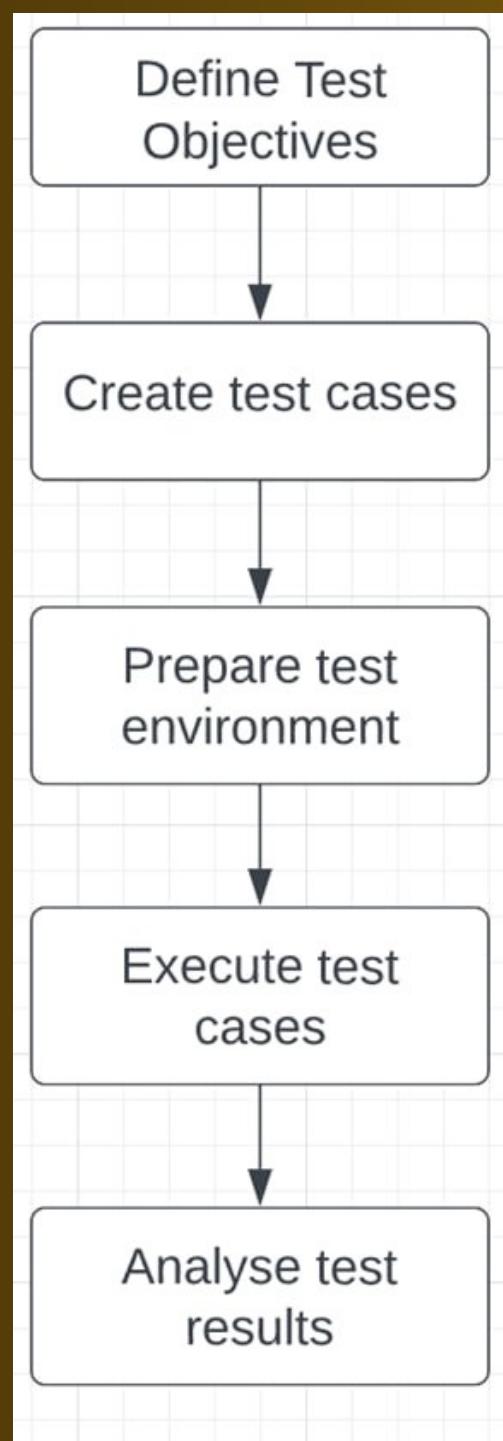
ANDROID
PHONE/EMULATORS

TECHNIQUE USED:



AGILE METHODOLOGY

TEST PLAN:

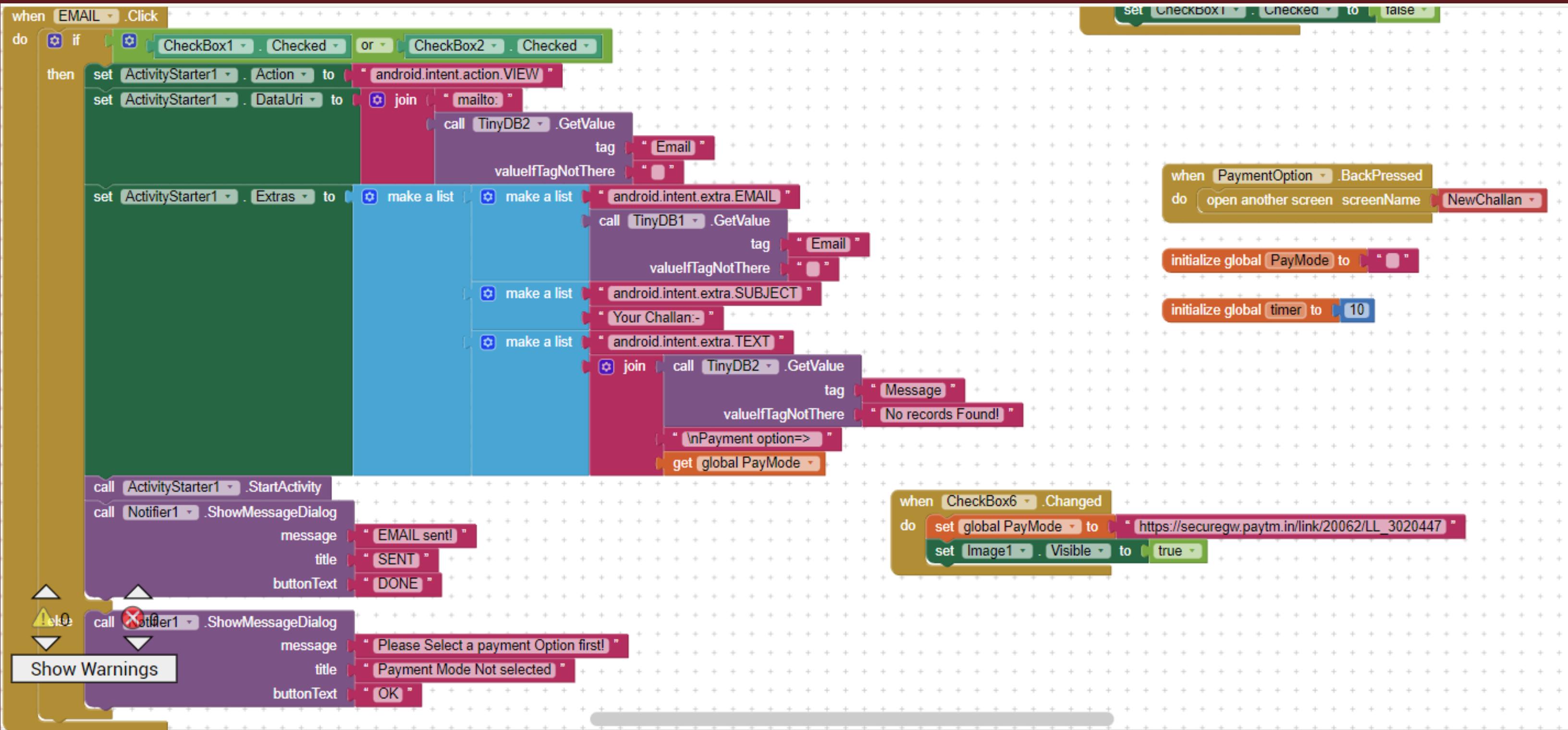


TEST CASE:

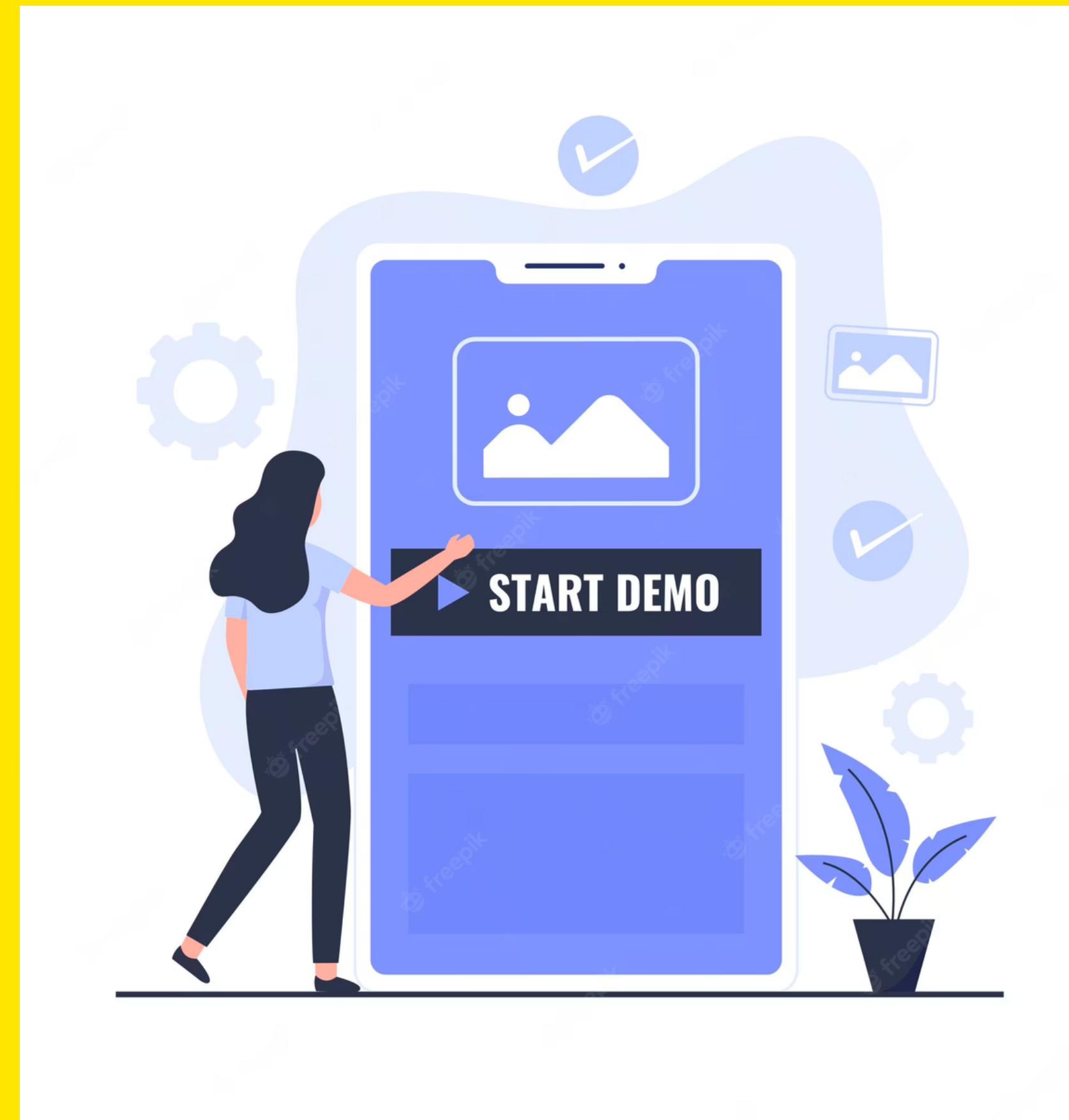
TEST CASE NO:	SENERIO	INPUT	EXPECTED OUTPUT	RESULT
CASE 1	CREATE A CHALLAN	SHOULD BE ABLE TO SELECT OFFENSE AND FILL ACCUSED DETAILS	IT SHOULD MOVE TO NEXT PAGE WHERE YOU CAN SELECT PAYMENT OPTION	✓
CASE 2	LOGGING IN	GIVE VALUES FOR USERNAME AND PASSWORD	IT SHOULD PROCEED TO THE NEXT PAGE AND IF ENTERED WRONG INFO IT SHOULD GIVE A POP UP	✓
CASE 3	PAYMENT OPTION	SELECT PAYMENT METHODS AND SEND NOTIFICATIONS TO THE ACCUSED	IT SHOULD BE ABLE TO SEND NOTIFICATIONS VIA EMAIL AND SMS	✓



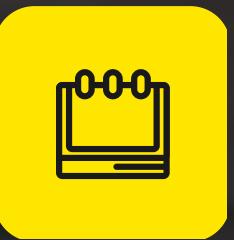
CODING



DEMONSTRATION



FUTURE IMPROVEMENTS



Multilingual support: Add support for multiple languages to make the application accessible to a wider audience.



Chatbot integration: Integrate a chatbot to assist users with payment-related queries and support.

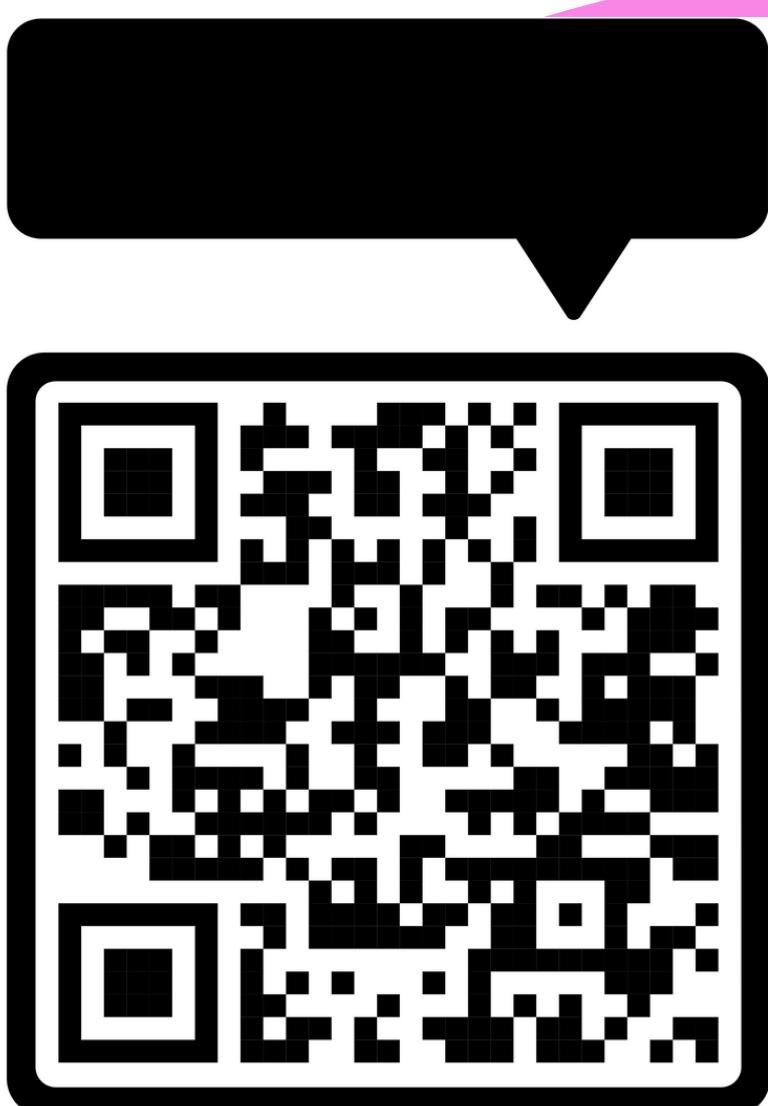


adding a driver login and payment page

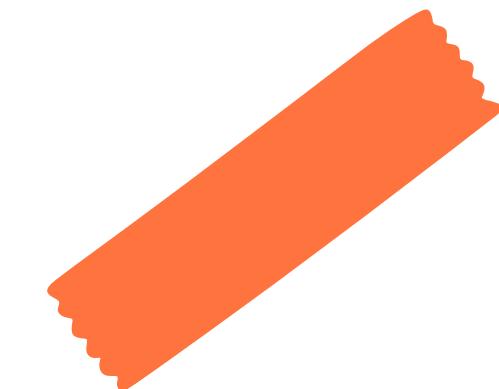
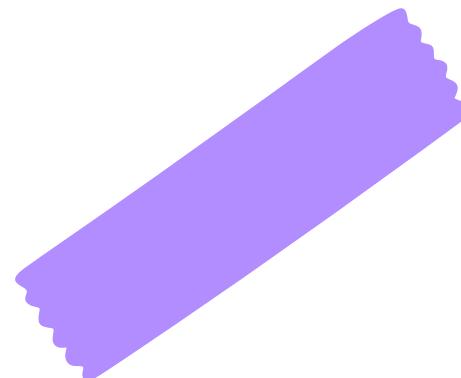


Adding predictive analytics could help authorities plan more effective traffic management

PEER REVIEW



<https://forms.gle/sYpYbeFVZVdom2Kz9>



**THANK
YOU!**

