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Pedal Pal

Bit Brewers

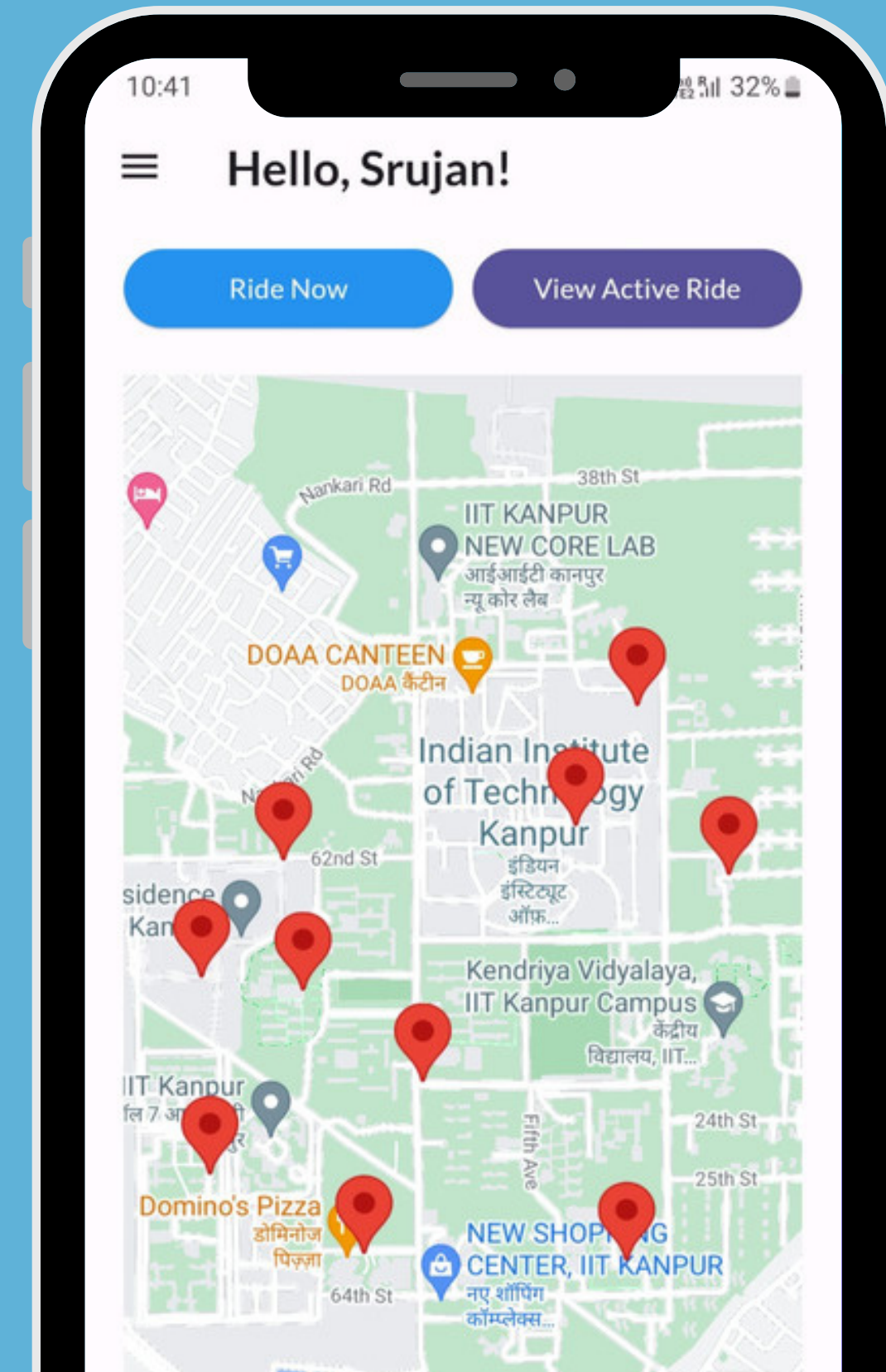


REVOLUTIONIZING CAMPUS CONNECTIVITY

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Introduction

We present an application to help the campus community to rent cycles from various cycle stands across the campus.

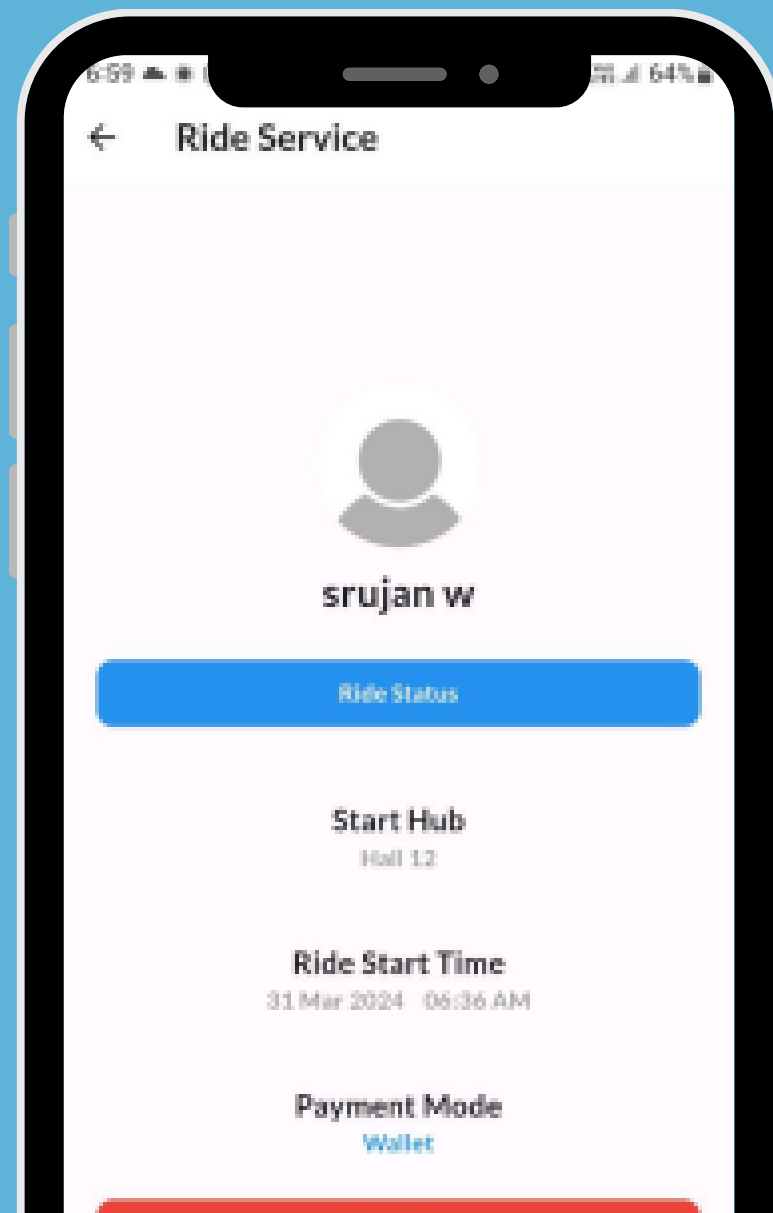


Need

- Many individuals, from students to faculties, have embraced the lifestyle of cycling at the IITK campus. These cycles require timely maintenance and often get lost. A large number of lost cycles are never found by the owners and remain stacked like waste. Considering the temporary stay of students on campus, buying new cycles is not very cost-effective in such cases.
- In addition to that, during fests and other campus events, visitors from outside generally face problems in roaming around our huge campus.

This calls for a need for public cycle stands, from where the cycles can be rented using our software application!

Major Requirements

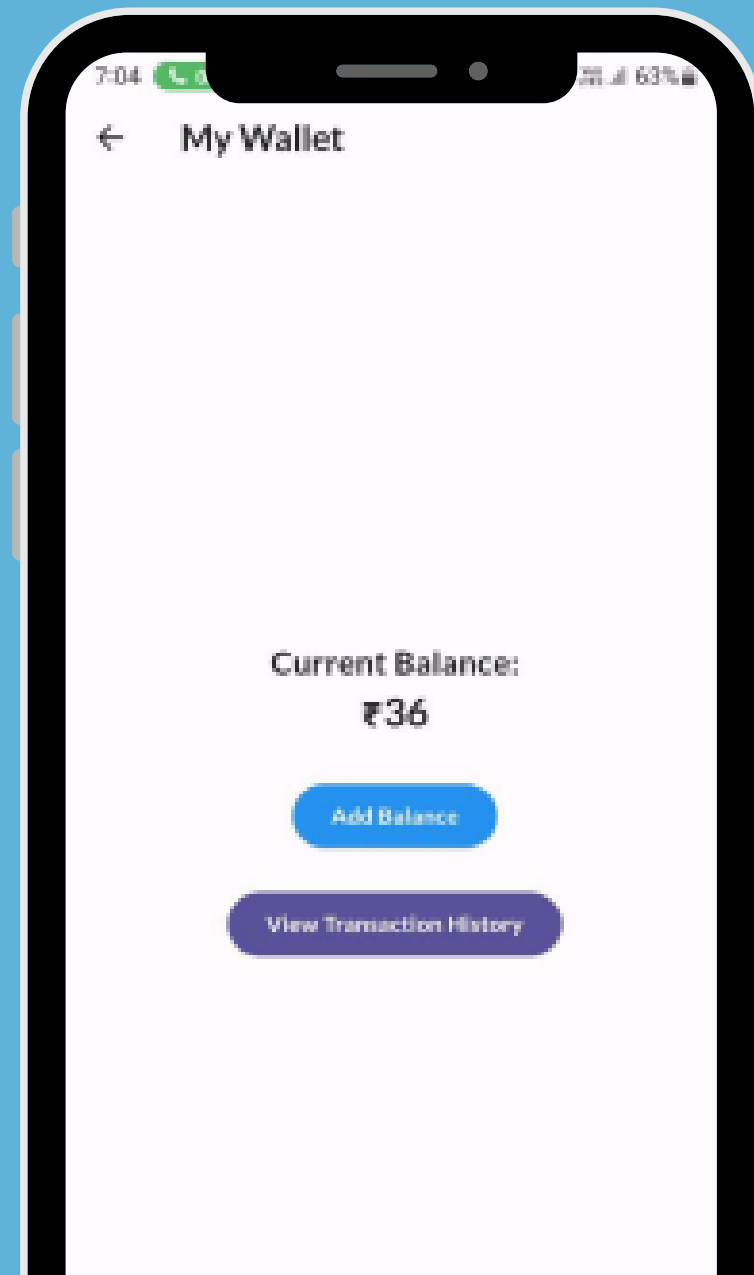


1

Ride with PedalPal on-the-go

Our app allows users to book cycles as and when required without any hassle. With one scan of a QR Code, the user will be able to rent the cycle and use it to reach anywhere in campus

Major Requirements

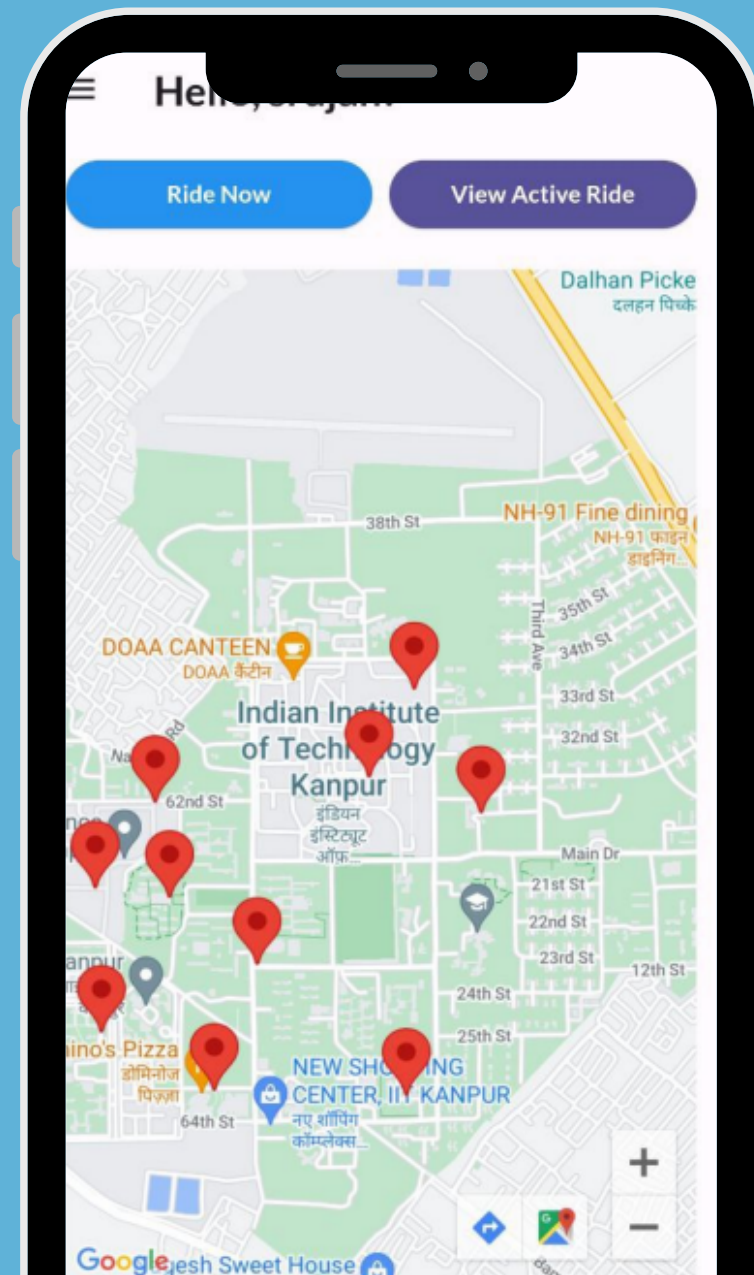


2

Ride Now, Pay Later

Enjoy Convenience with PedalPal: Our app allows you to keep a Wallet for Easy Payments. You can recharge the wallet to avoid payments immediately after ride. Also, if you don't have balance in your wallet right now you can pay the ride dues later.

Major Requirements



3

View Availability of cycles in real time

Stay Informed About the Number of Cycles Ready for Rental at Any Given Moment and hub, Ensuring You Can Grab a Ride When You Need It.

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Key design and implementation Decisions

- PostgreSQL for database
- Django for backend
- Flutter for frontend

Decisions Overview

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- PostgreSQL

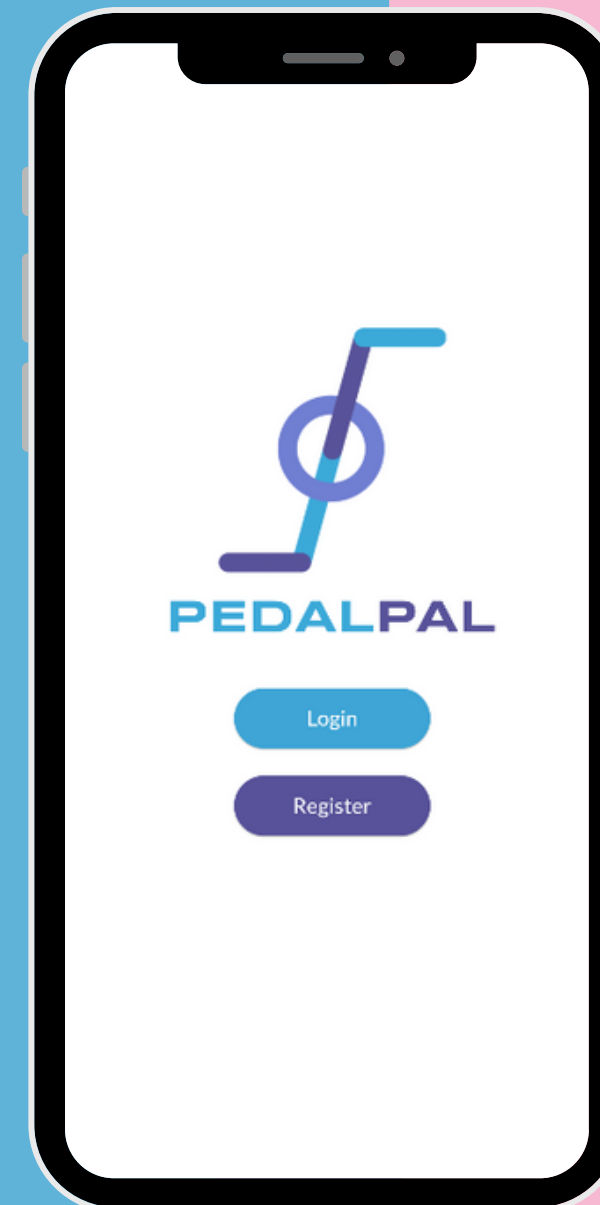
Selected for its reliability, scalability, and advanced querying capabilities, ensuring robust management of rental transactions and user data.

- Django

Employed for its rapid development framework, built-in security features, and seamless integration with PostgreSQL, facilitating efficient backend development and management.

- Flutter

Chosen due to its suitability for app development, prioritizing a smooth user experience tailored to mobile platforms over web-based interfaces.



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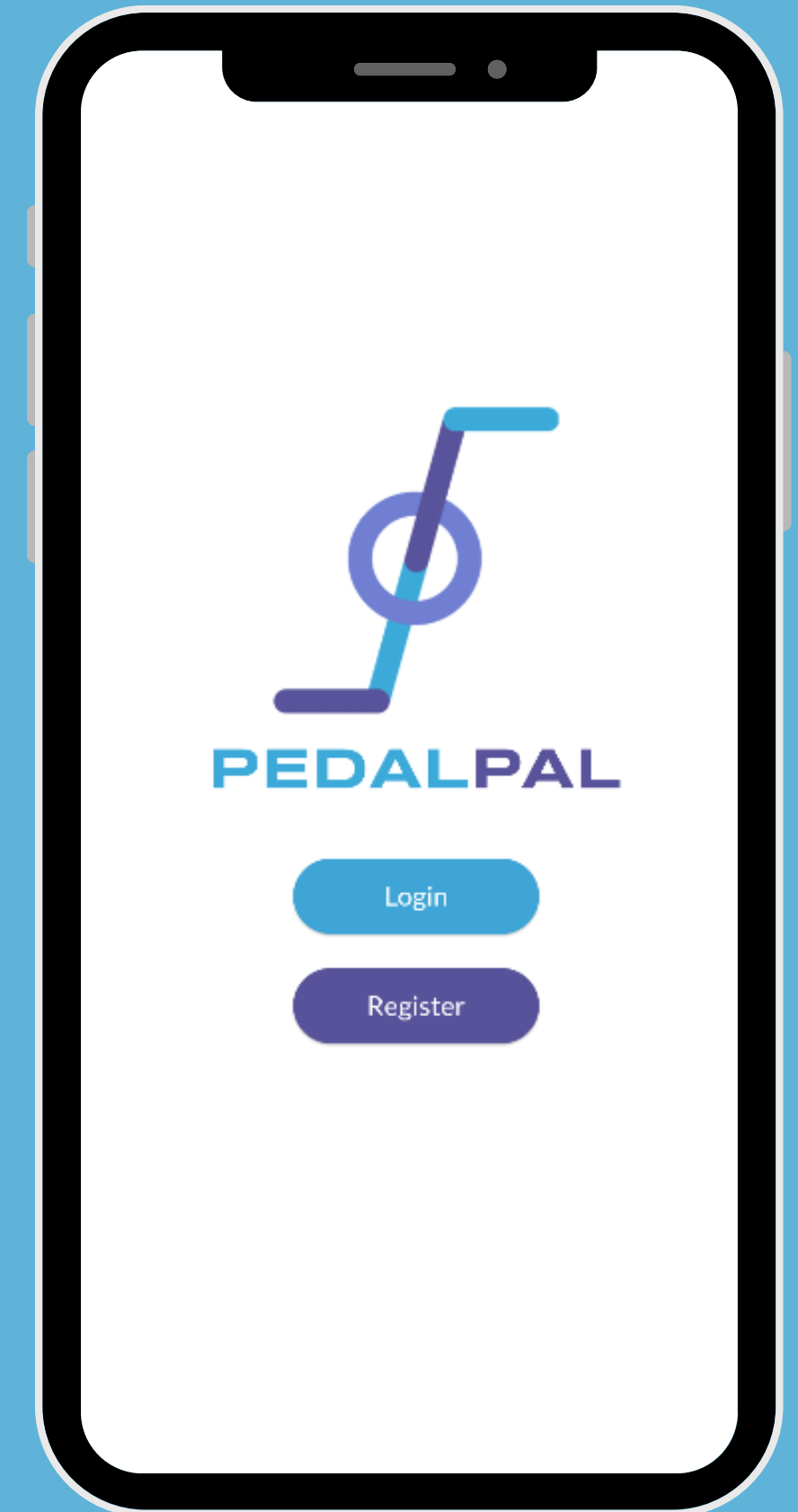
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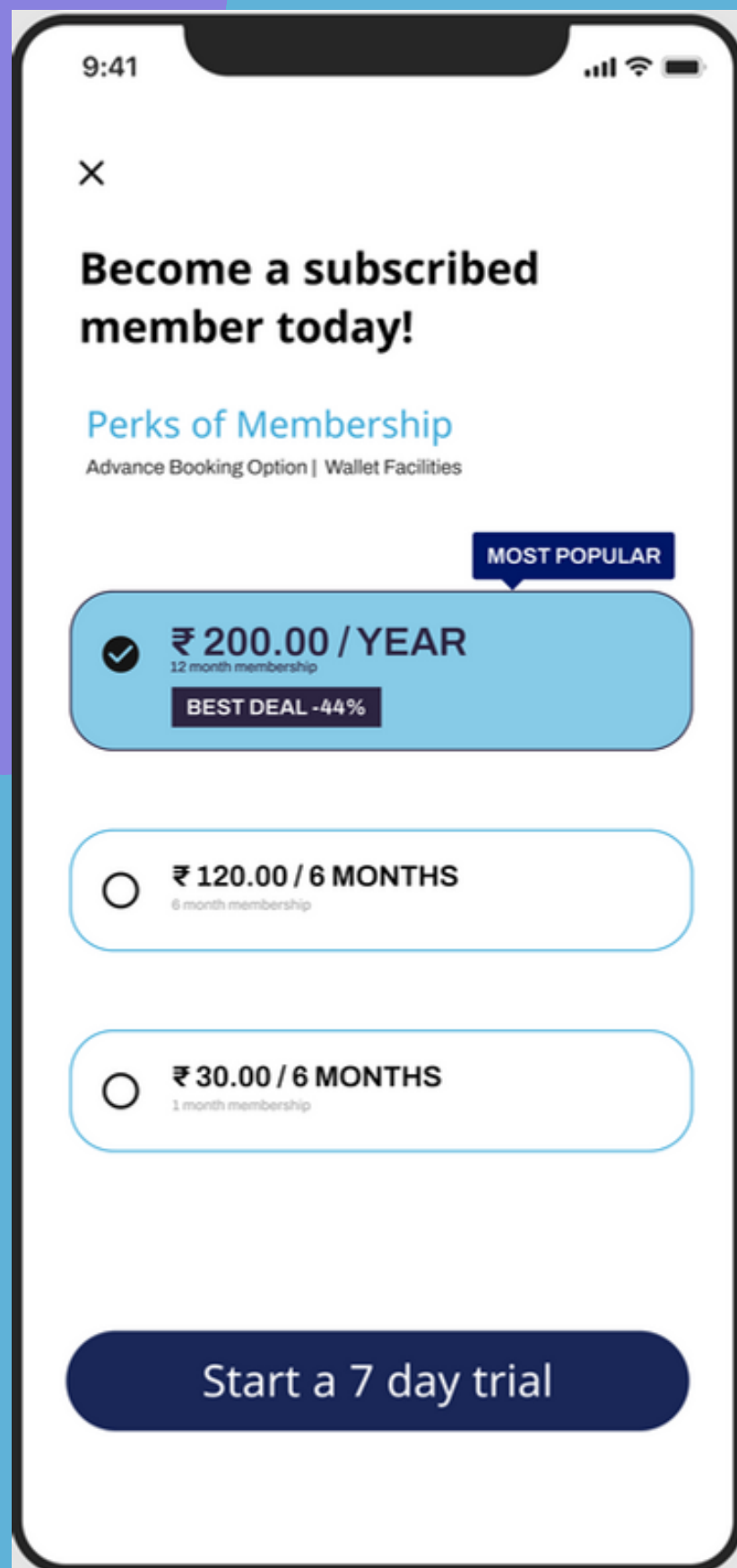
DEMO

PedalPal Cycle Rental App

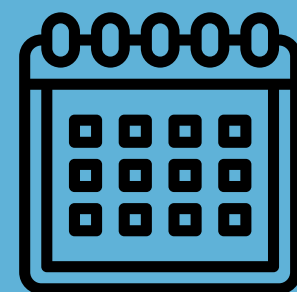
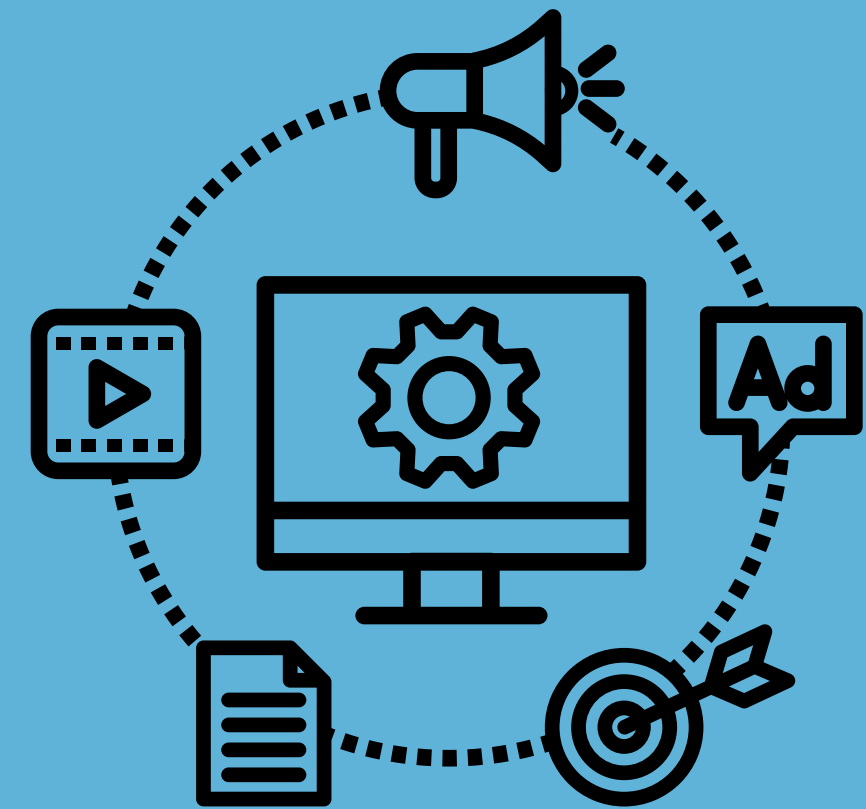
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Future Developments





Subscription Trial



Offering a 7-day trial allowing guest users to experience subscriber benefits



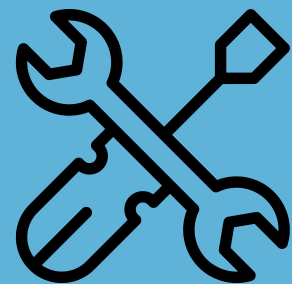
Encouraging users to interact with app, potentially leading to higher usage and retention



Tracking and Maintaining Cycles

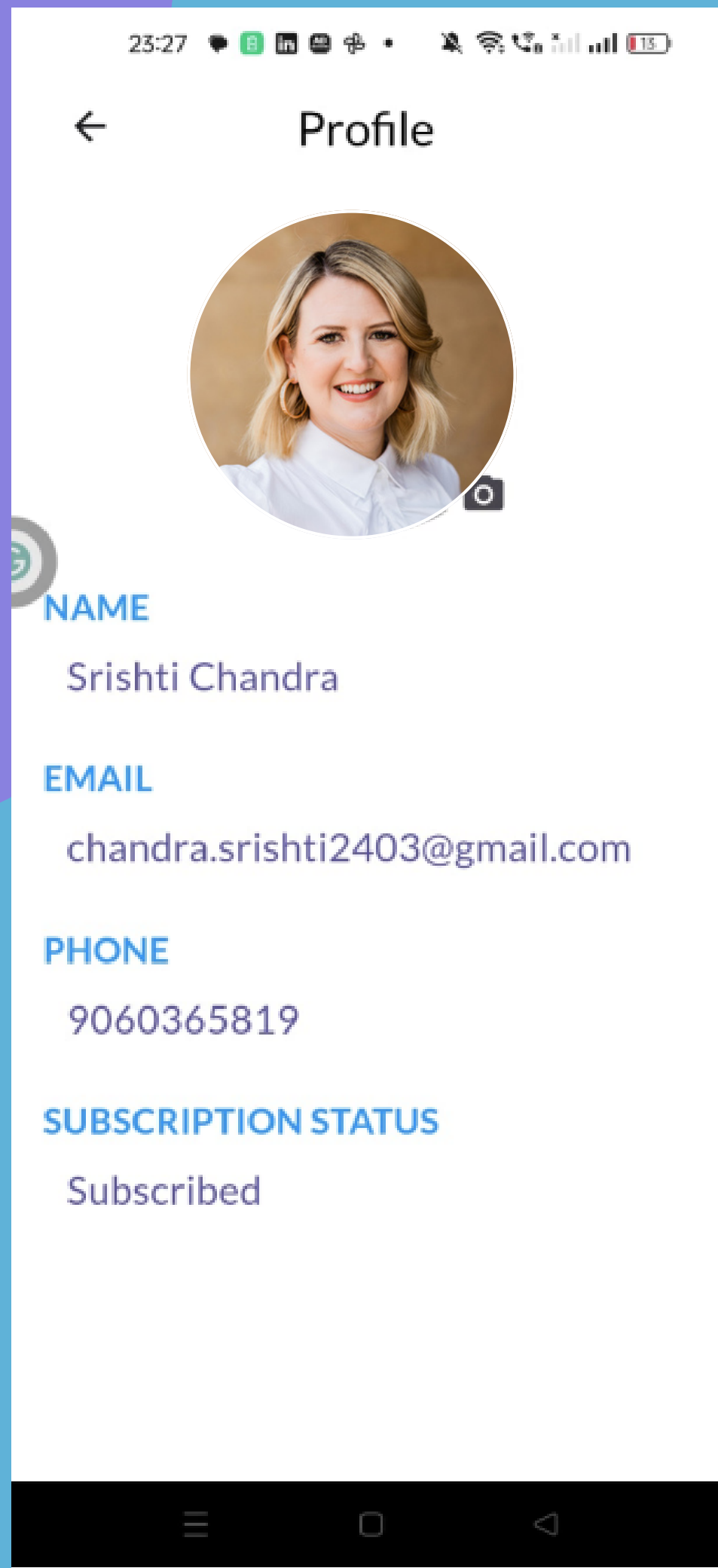


Tracking Bicycles for theft prevention and aid in recovery if stolen



Feature to facilitate Automated maintenance scheduling for cycles



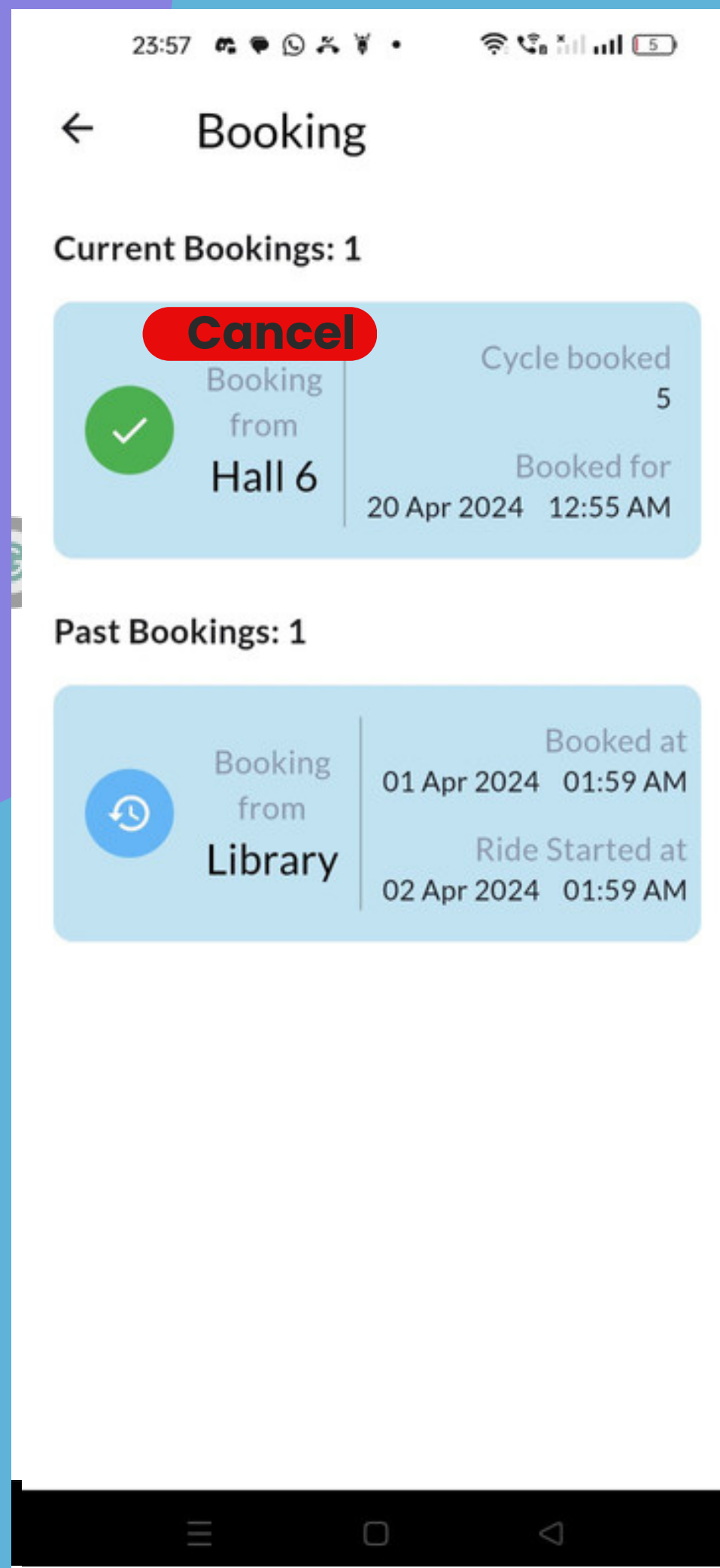


Profile Picture

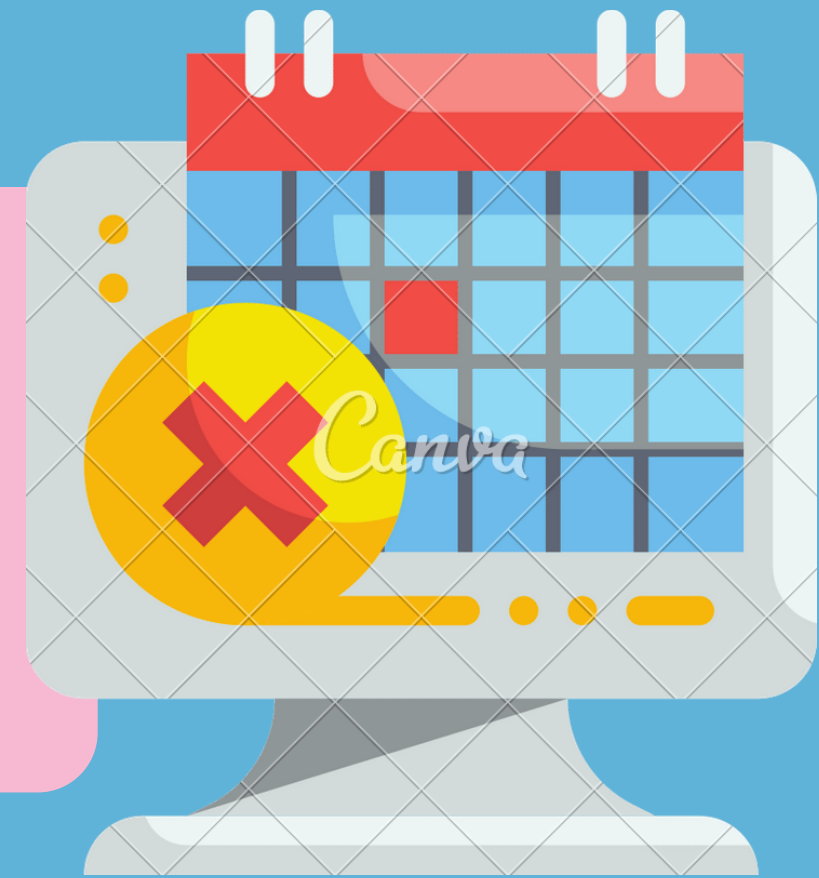


Personalises the users experience while
on the app

enhancing user satisfaction and loyalty.



Booking Cancellation



Cancellation of a current booking allows users flexibility and promotes user satisfaction.

It also helps in optimizing the scheduling efficiency.

Lessons

- **Team Collaboration**
- **Feedback Incorporation**
- **Integration Challenges**
- **Scalability Consideration**

