

Challenge Brief

Design a basic mobile app that allows users to buy and manage a FASTag for their vehicle. Conduct your study to gather how the FASTag product works and its nuances.

Design the UI of user flows for the following journeys:

1. Buy a FASTag for your vehicle.
2. See your FASTag account balance and past transactions.
3. Top-up your FASTag balance.

Other Expectations from this Task

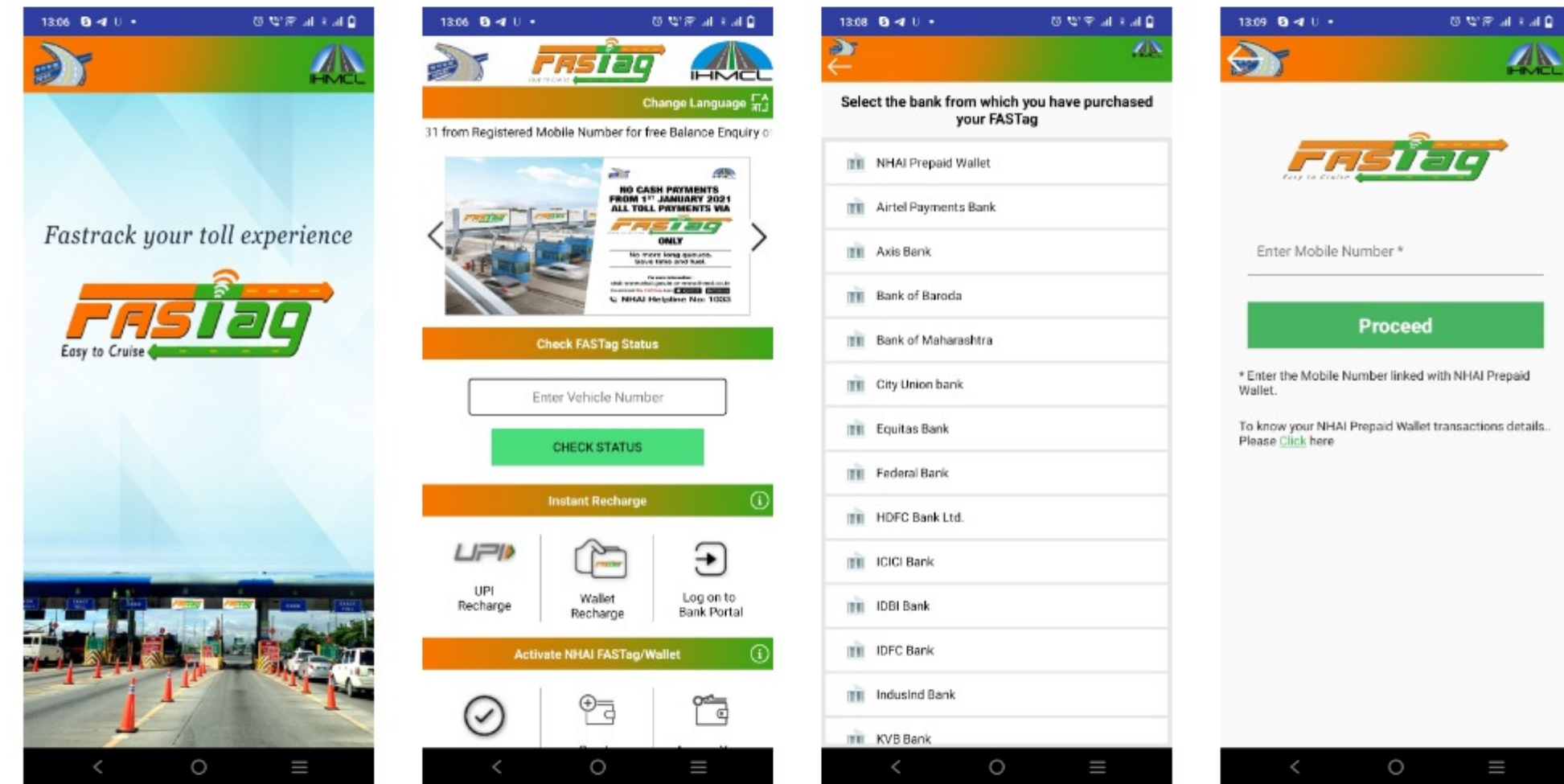
1. A detailed presentation (PDF) that showcases your strategy, UX principles applied, UI style, typography, and the actual UI user flows.
2. Tappable XD prototype link.
3. Source XD file.

Notes:

1. Screen art-board size: 360px width.
2. You are free to create your own colour palette, just make sure it is aesthetically pleasing.
3. Research online to find the correct fields and flows for each of these journeys.
4. Bonus points for suggesting new features.

Background Context

FASTag is an electronic toll collection system, operated by the NHAI. Based on radio frequency identification (RFID) technology, FASTag is affixed on the windscreen of vehicles. In other words, FASTags are prepaid rechargeable tags for toll collection. FASTags do not have any expiry date, hence, they can be used as long as they are not tampered with and are readable at the toll plazas.



What is the approach I took

Research . Analyse . Ideate . Design

Available Insights

The tag can be purchased from official Tag issuers or participating Banks and if it is linked to a prepaid account, then recharging or top-up can be as per requirement. Some banks have online forms that can be filled up by interested customers. Once enquiry forms are filled, and query is generated, the customer can visit the office to fill up a required form and submit necessary documents to create a FASTag account.

Source- <https://www.indiatoday.in/information/story/what-is-fasttag-all-you-need-to-know-1615824-2019-11-05>

Target group/persona

- Large vehicle drivers who moved across borders
- Literacy level less
- Mandatory to use Fast-tag or else pay double toll amount
- Employee of companies

What is the success matrix

1. Increase usage from by 20% of daily commute usage.
2. Increase learnability of the platform services and features.
3. Improve subscription rate by offering other ancillary services in a seamless user experience.
4. Increase discoverability of new tools, features like bulk vehicle registration, top-ups etc

What is the Goal

Unleash the power of Fast-tag centric experience with new services for our new and old customers and gain a larger share of their use time.

How we can enable and promote all new services?

Showcase the value of the Home and new value added services experience on the platform to be advanced and industry competitive.

What problem are we solving?

A need for ease of vehicle registration to apply for Fast tag, auto-top ups, **apply for bulk company vehicles in one go**, ancillary services related to road journey's, engagement and services discoverability to achieve the desired service utility goals to current and new users.

"I've to scramble around and look for best suitable and easy to use fast tag recharge." Users think of one item at a time. So our platform is a significant opportunity to address their need for a need of services which are in support of fast tag and also other value added ancillary services.

What are the JTBD?

DIRECTION- I need to know how to register my vehicle without me having to fill long forms with email, vehicle details etc, in an affordable way and that's better tailored to user needs.

EFFECTIVENESS & EFFICIENCY- How I can avail the new services like top ups, add new vehicle, order new single/bulk fast tags, in the the most effective and easier way.

ENGAGEMENT- I need an engaging and motivating way suited to how I use the other ancillary services.

Competitive Benchmarking

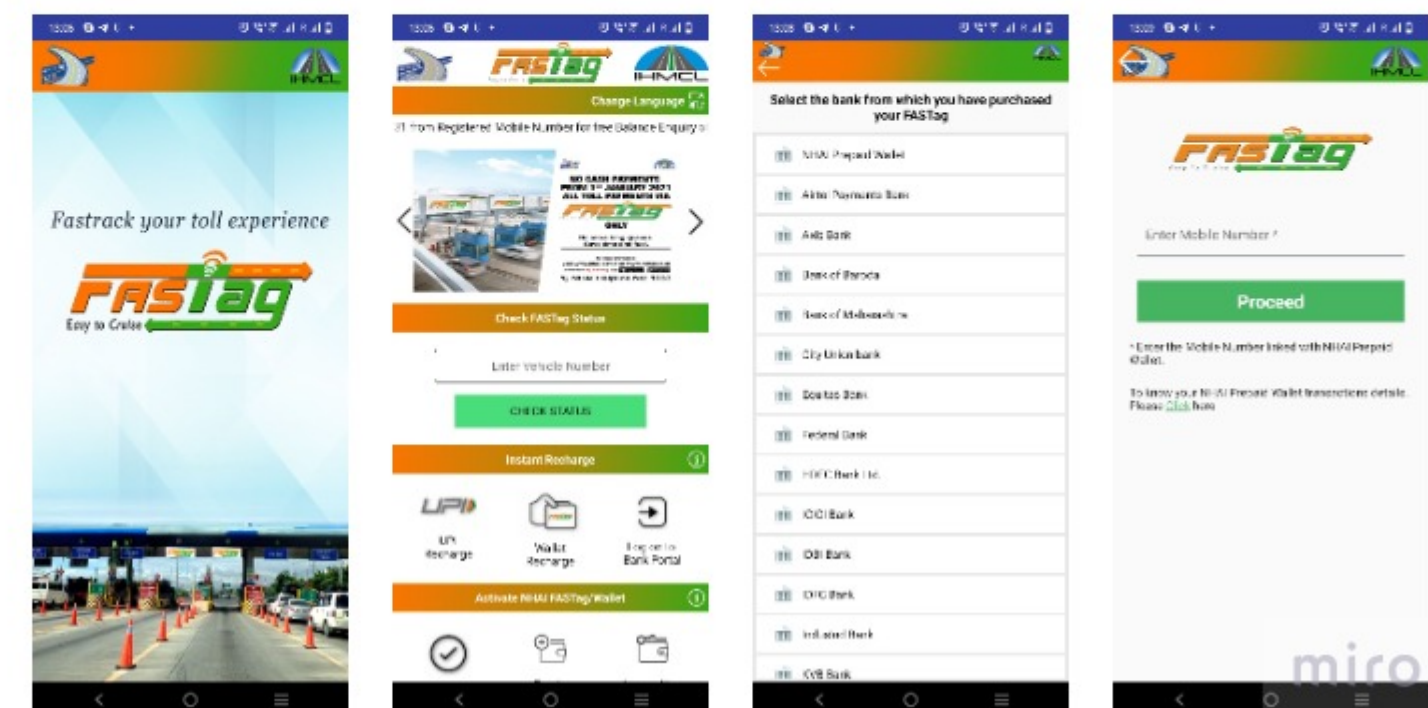
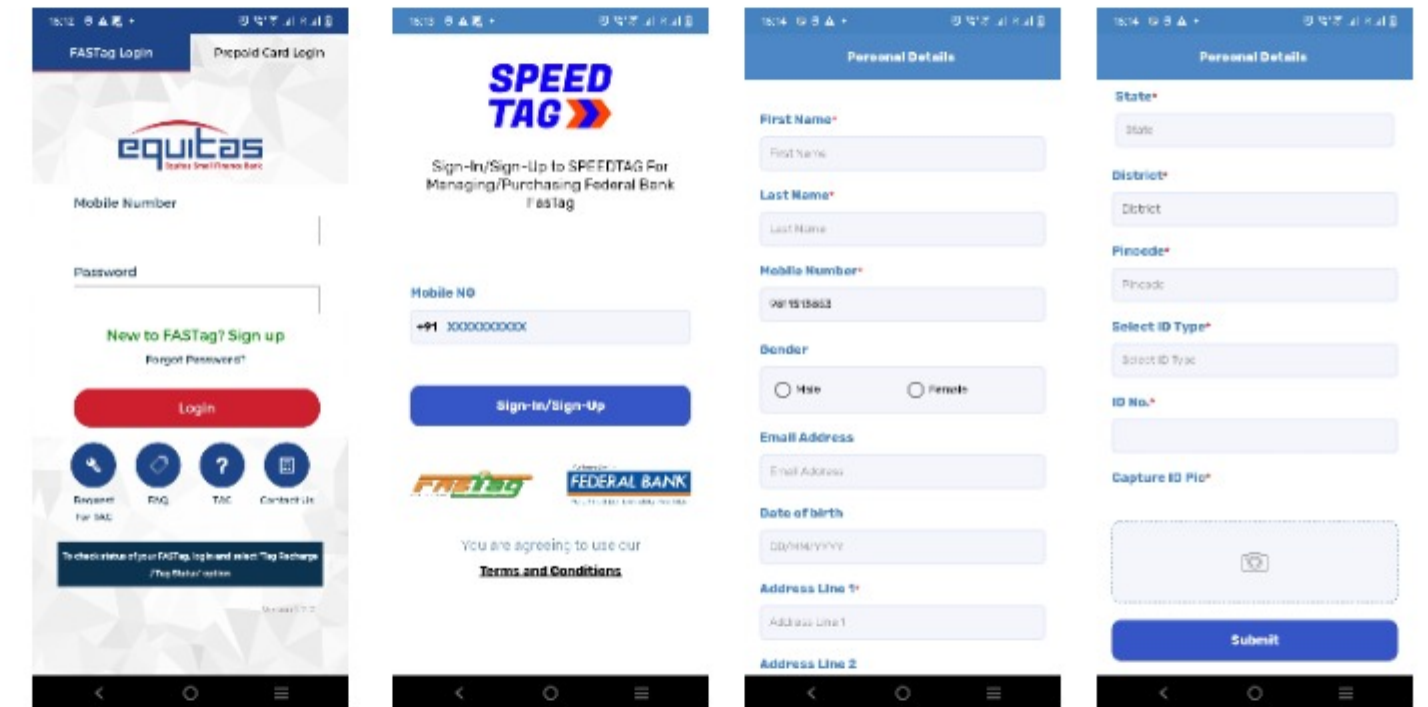
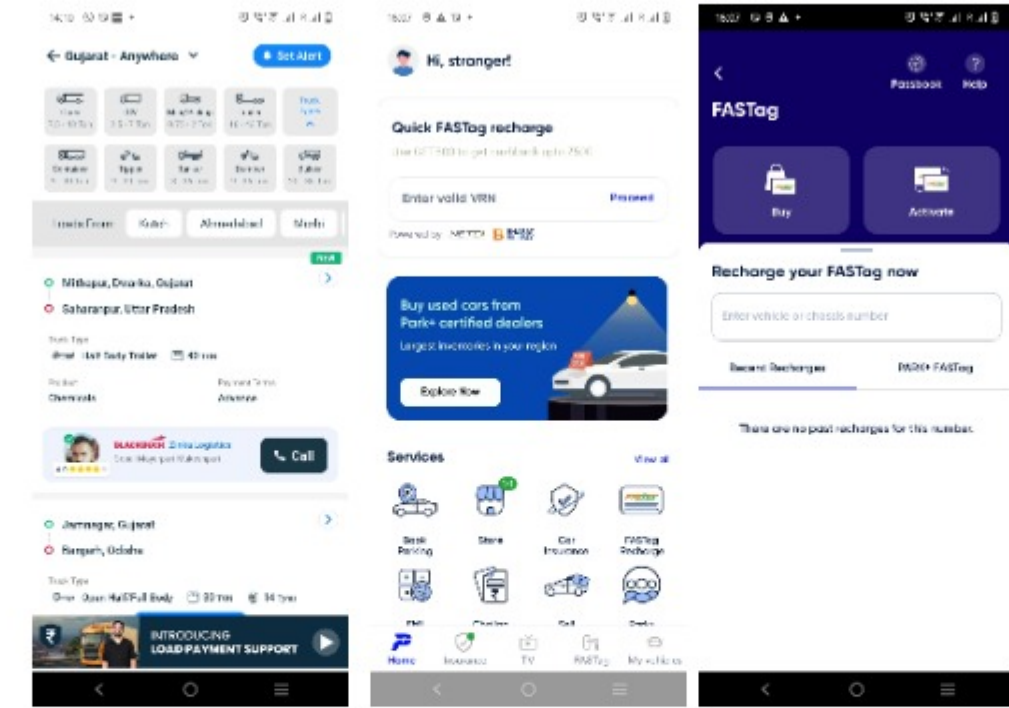
A competitive benchmarking to attain a basic idea of what the other Fast tag service provider apps offers and features. I did an in-depth reviews of each of these providers to make an informed decision.

I analysed the primary user journey points, feature sets, and whether or not the app is better for business or personal use.

1. My Fast-tag
2. eToll by ICICI bank
3. IDBI- ETC Fastag
4. Park + FASTag
5. IDFC First ank fast tag
6. Equitas
7. Fastag karins
8. FASTag- buy & recharge federa

Heuristic Findings

- Confusing home page
- Complex early registrations
- Long forms to fill to add vehicle
- The apps were hard to understand
- Lack of clarity on Fast-tag purchasing flow
- The TG is not that literate to understand english & technical flow
- No provision to add multiple vehicles
- No provision to add multiple vehicles
- No provision to add multiple vehicles
- No provision to add multiple Fast tags
- No provision to get emergency top-up
- No provision to get emergency top-up
- The user uses basic phone and cant use a heavy app
- Most of the times the tag scanner doest work, which leads to multiple deduction, no refunds etc
- Most of the times no msg or notification is received of the deduction



What are the assumptions/hypothesis?

The platform should enable drivers with a tailored experience, offer competitive services, and plenty of contextual helpful features. While registration, top-up, applying for new fast-tag, there should be a way where they receive alert by setting up auto top-up without disrupting their experience with easy registration process. The user can setup limit with auto top up amount.

In that case, users are more likely to engage with old and new services and return for future visits, thus **increasing activation, retention, engagement, better performance and decreasing attrition and frustration.**

Where are we now?

The platform's value could be more evident to the users because there are no prominent levels of hierarchy.

Why are we doing this?

The new Fast-tag services engagement and retention is key to the success of the platform's goals. As a UX designer, I want the experience of visiting the forum to be as clear, clean, and valuable as possible.

There is also a solid need to be **mindful and economical** of the space utilization with a refined flow of information architecture across the sections offered by the platform.

There is also a need to surface relevant content and allow them to instantly understand the connection between Fast tag/subscription/money transfers/utilities/walkthrough/search, etc.

I am revising the information architecture to offer improved/enhanced discoverability and recommendations for each user.

High Level Use cases/Milestones

- Focussing on Useful Actions- Helping users to prioritise where to start and ensure they are aware of the how to register vehicle, avail fast-tag services and new service features available to them which are contextual to the road journey
- Curated access paths- To create an adaptive and personalised discoverability path.
- Personalised to user focussed starting point- Inform personalised recommendations on the platform.
- Organize all content for users to allow for one-stop access.
- Customize expectations/experience for users using old and new features have resources, tools and relevant actions.

Next steps to test and validations

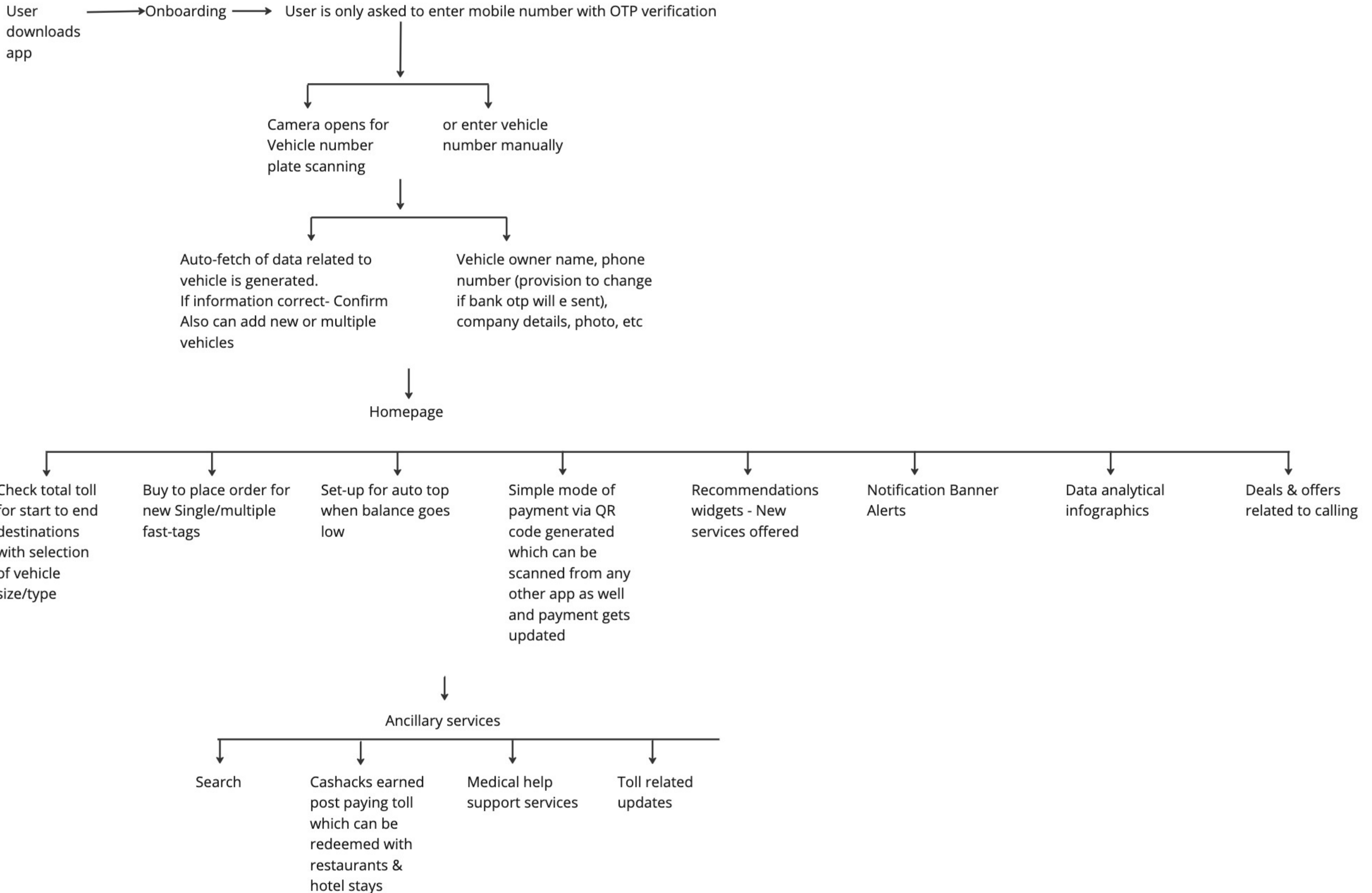
UX Process & Methodology: Measuring success

- Qualitative Data Analysis.
- UX Research
- Usability Tests
- Guerrilla Testing for faster iterative cycle

Quantitative Data Analysis

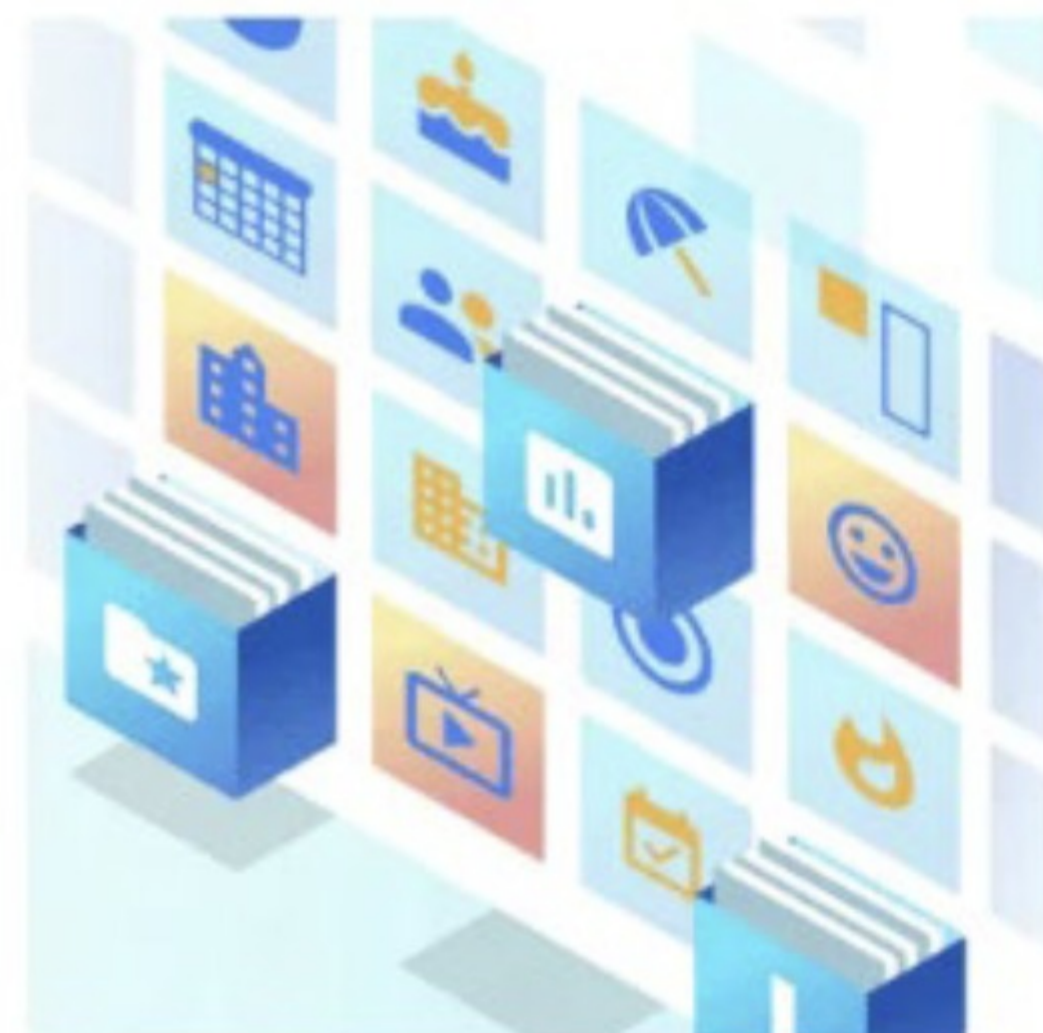
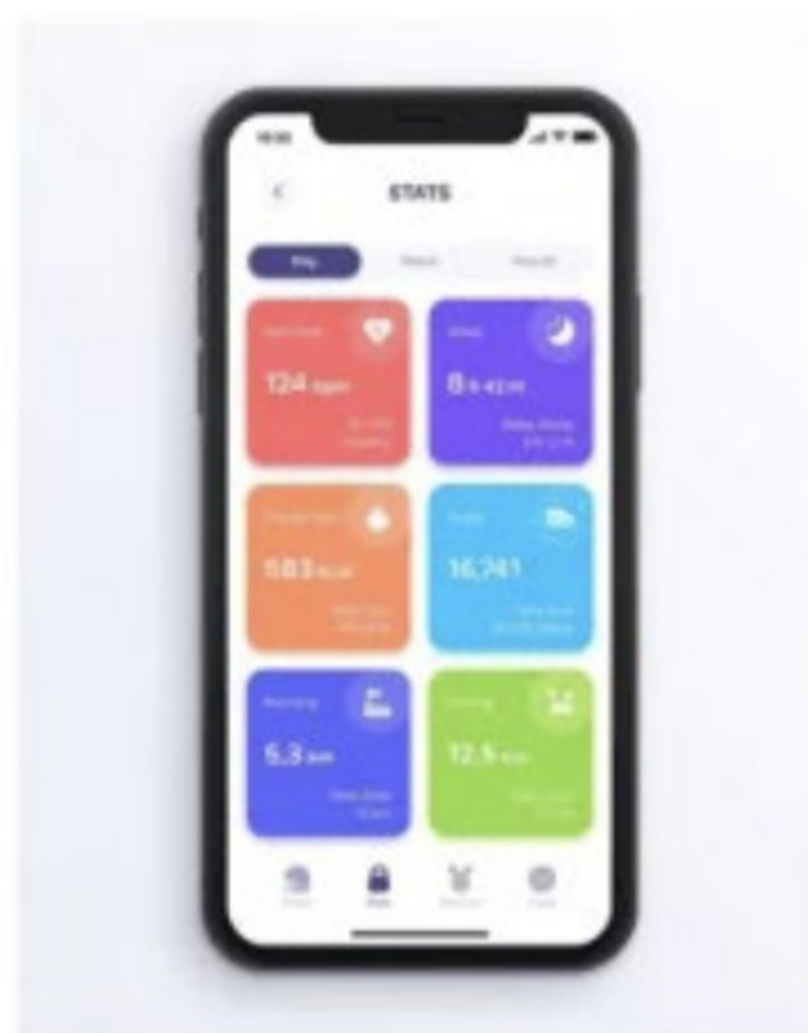
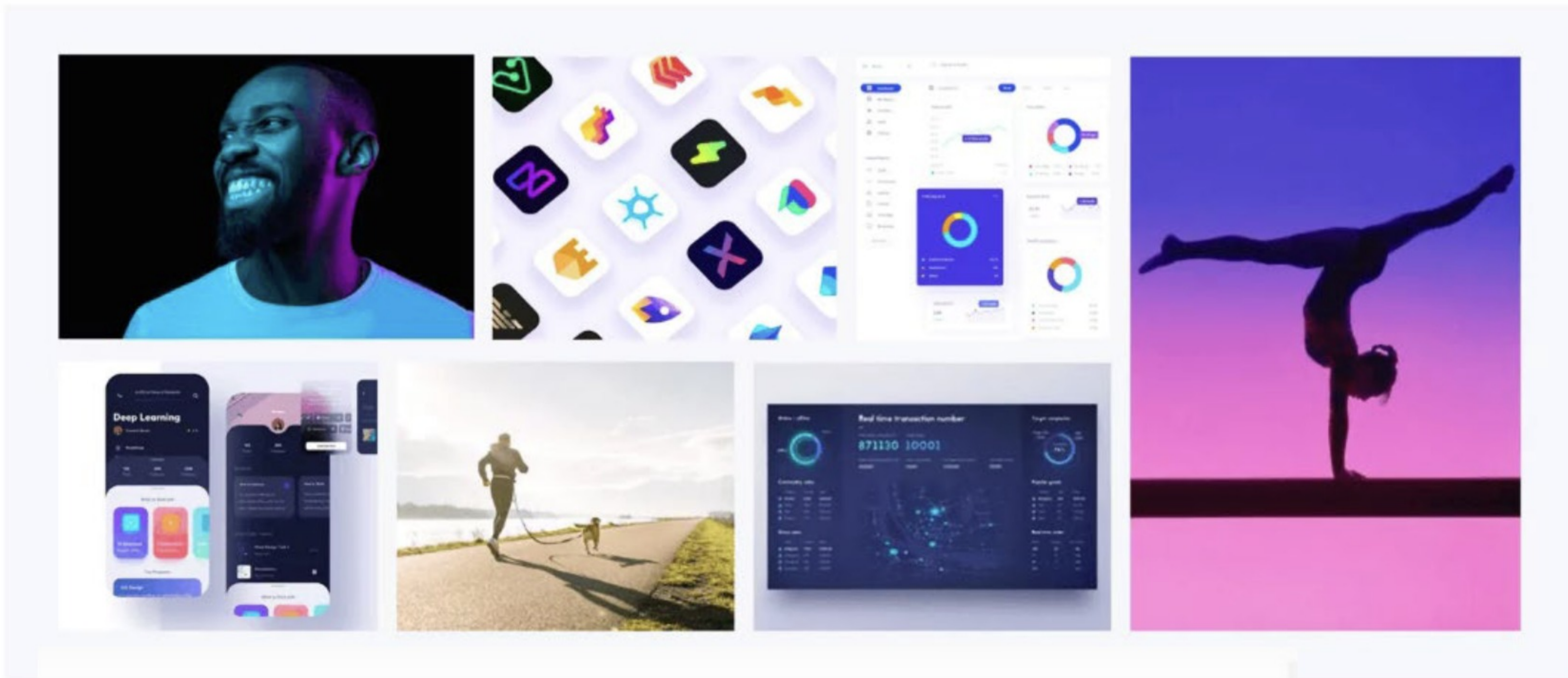
- UX surveys
- A/B tests- A/B testing, describe the variants being tested, traffic allocations to each variant, and the KPIs being measured in the experiment.

User journey flow



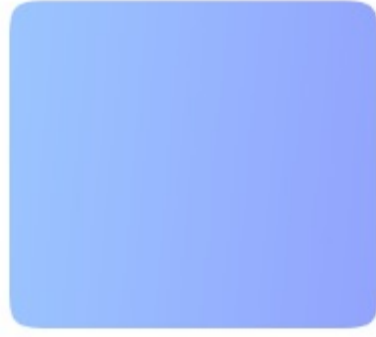
Mood board

I managed to develop a recurring color theme and use supporting imagery that reinforced the adjectives “effective” and “lighter”. The mood board is designed in a way to not make the interface boring and corporate look-like. Use of basic neutral colors with easy navigation of Information architecture



Colors

Brand Colors



#92A3FD
#9DCEFF

Secondary Color



#C58BF2
#EEA4CE

Black Color



#1D1617 #FFFFFF

Gray Color



#7B6F72 #ADA4A5 #DDDADA

Border Color



Border-color
#F7F8F8



Grid System

Frame

iphone 11 pro / X
(375x812)

Margin Left Right

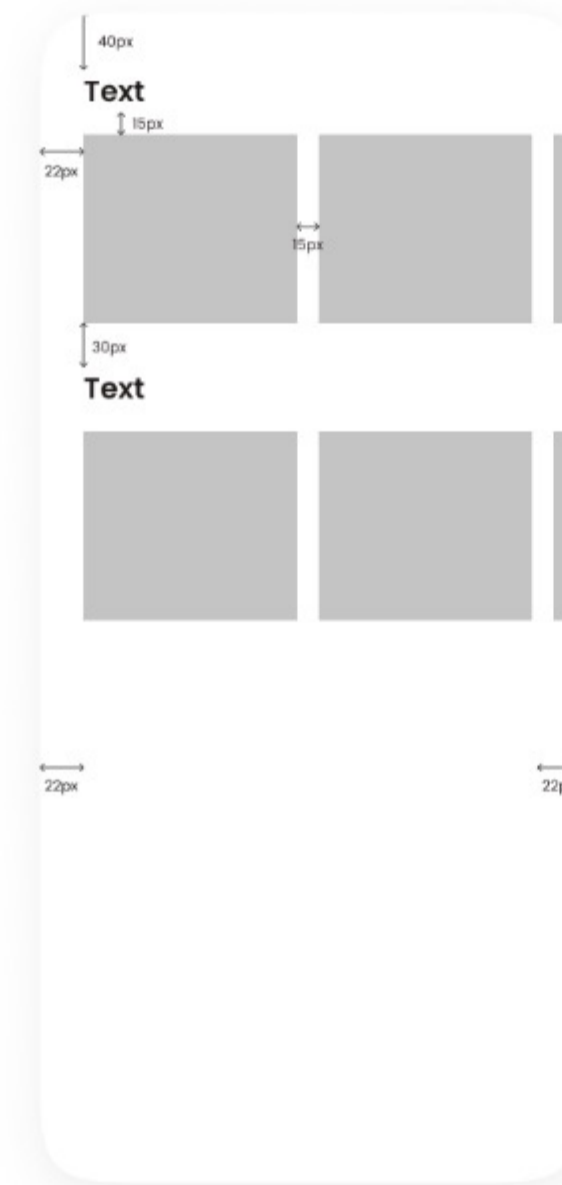
22px

Margin Top

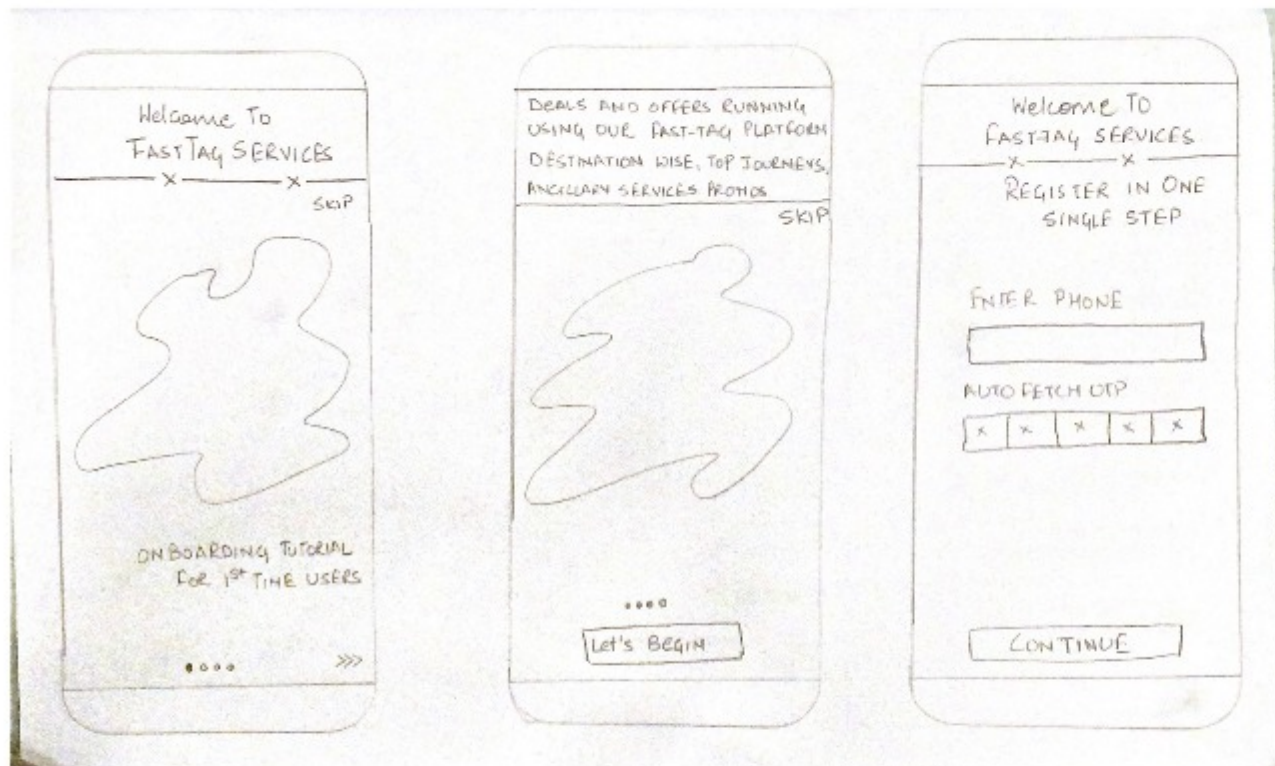
40px

Frame Radius

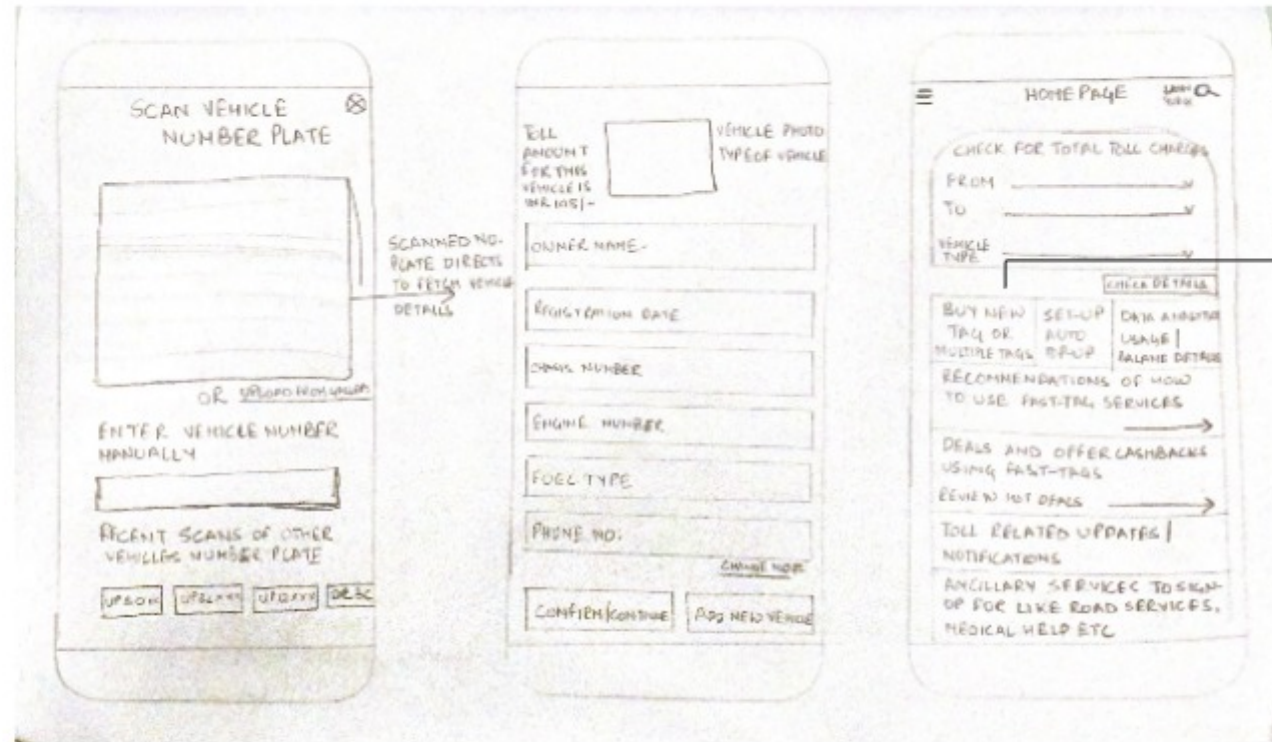
40px



Simplified onboarding and Phone number registration

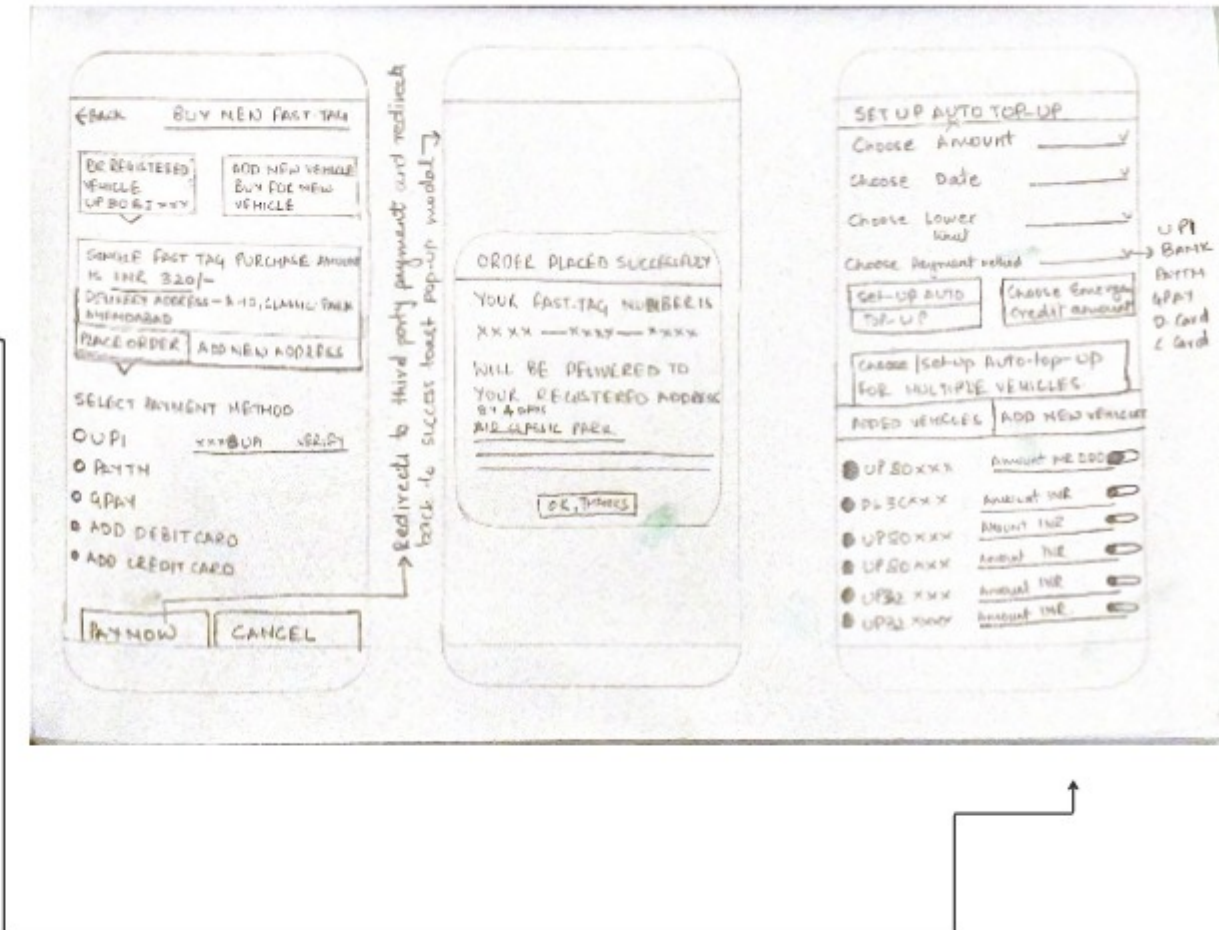


Vehicle registration in just two steps - either via number plate scan or manual entry.
Details of vehicle auto-fetched.



Home-landing page

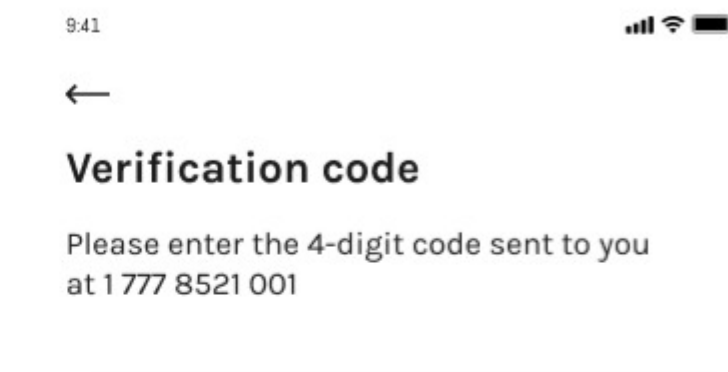
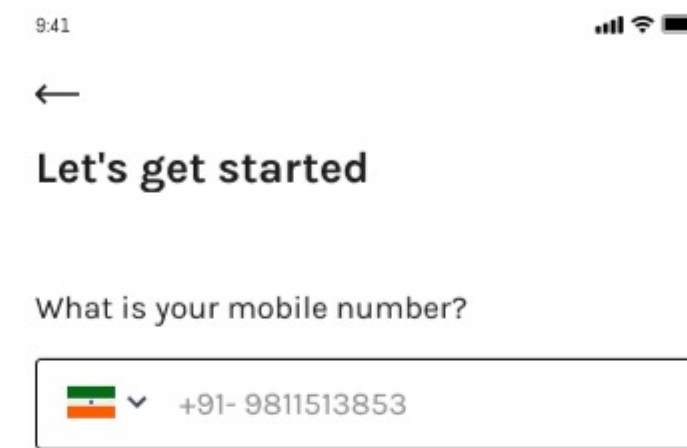
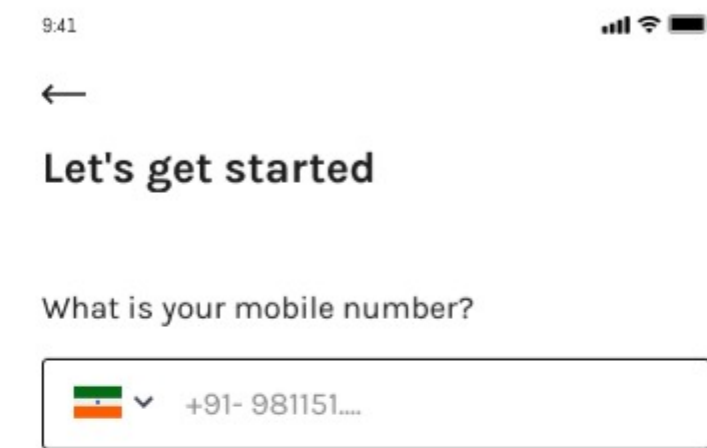
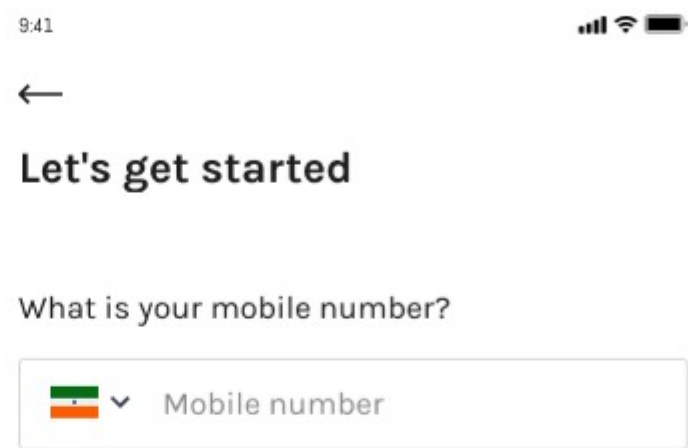
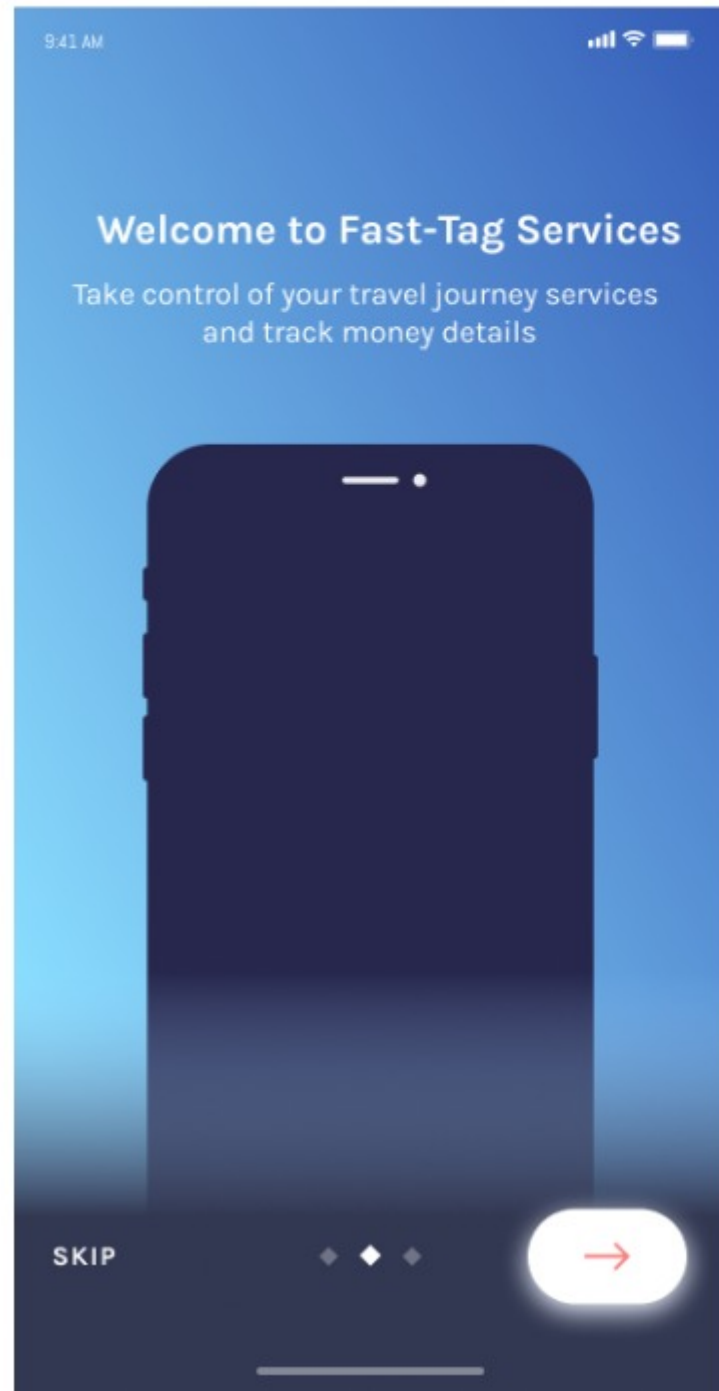
Buy new fast-tag



Auto-top up page

- Check total toll amount of the journey and pay in advanced with QR code generated to be shown at the tolls
- Set-up for auto top-up
- Balance of Fast-tag details
- Check total toll amount of the journey and pay in advanced with QR code generated to be shown at the tolls
- Widgetised approach for ancillary services
- Language selection

Simplified onboarding and Phone number registration: 1/2 step onboarding

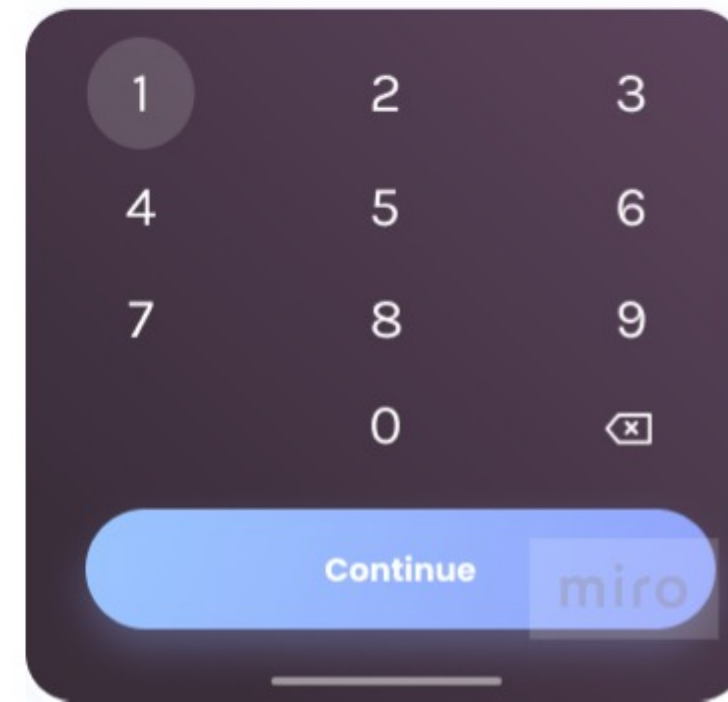


7 3 5

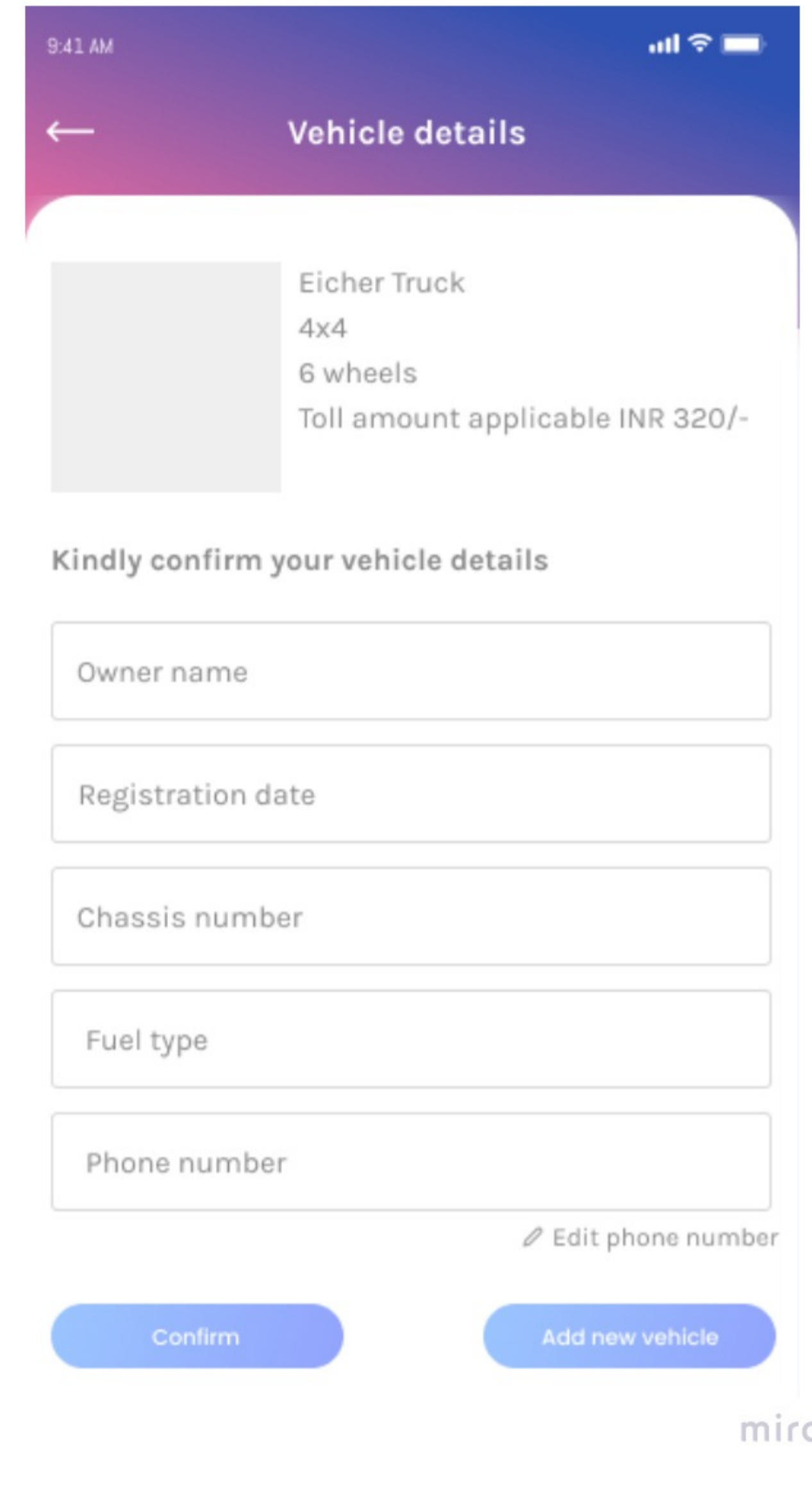
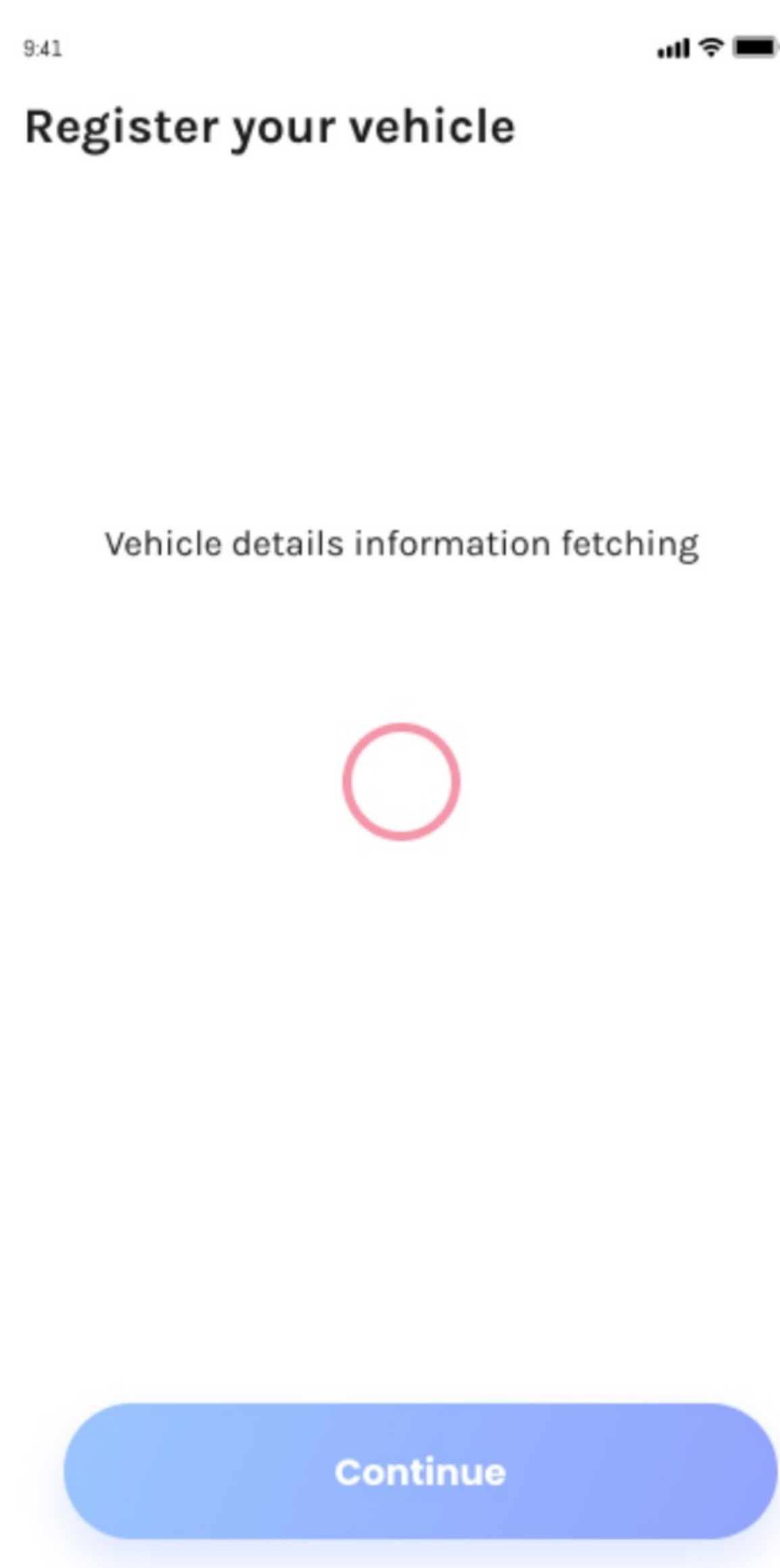
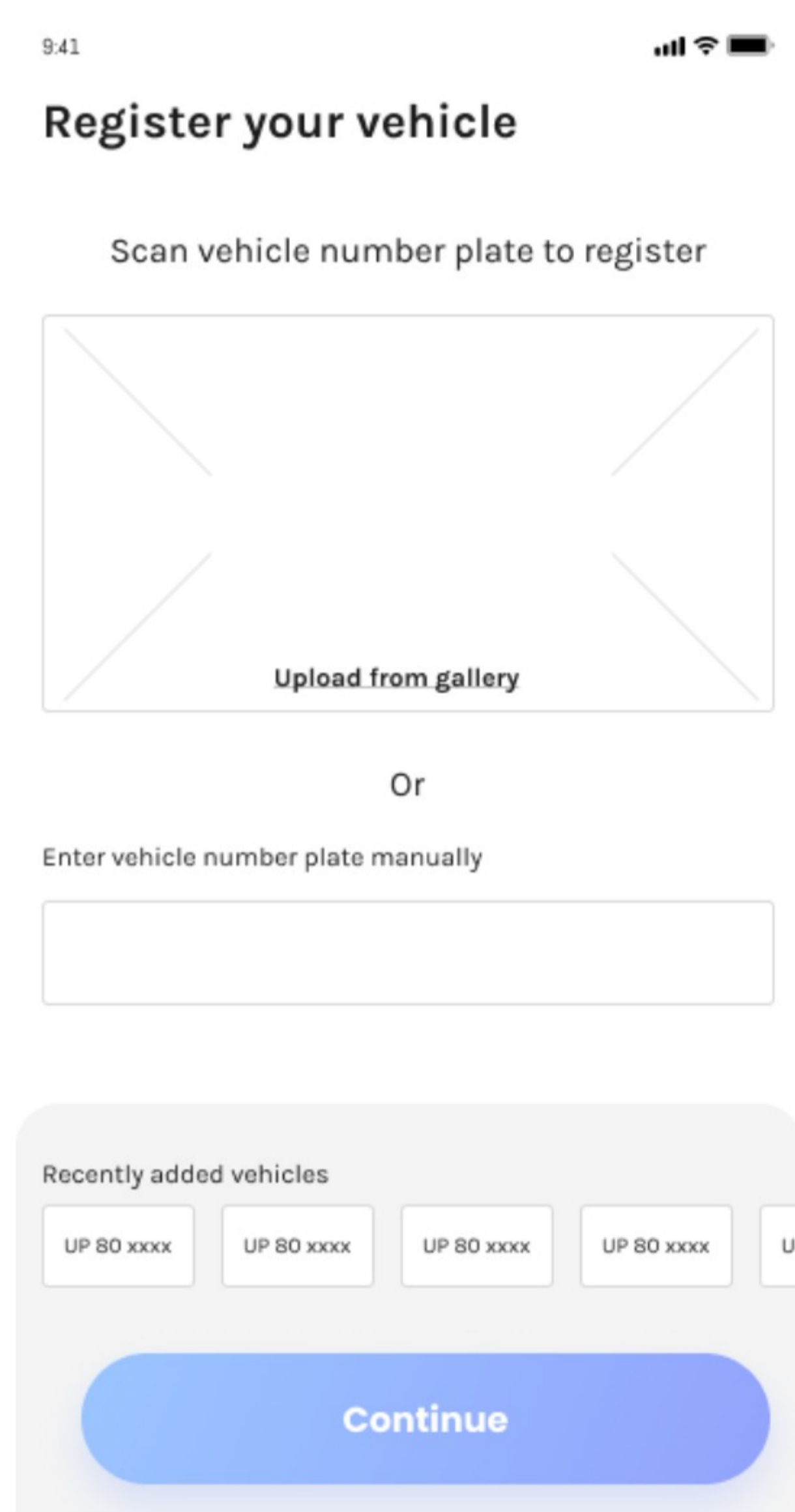
The verification code '735' is displayed in a sequence of four input fields. The third field, containing the digit '5', is highlighted with a green underline.

If you don't receive the code in 30 seconds tap below to resend it

This text is centered below the verification code input fields, providing instructions for what to do if the code is not received.



Vehicle registration for profile creation, either via number plate scan or manual entry: 2/2 step profile creation



Apply for fast-tag flow

Apply for bulk fast tag
Within 3 days your Fast tag will be delivered

Select vehicles + Add new vehicle

- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx

Choose address
Select address for fast tag delivery

Total : INR 350.00
2 vehicles added

Apply for bulk fast tag
Within 3 days your Fast tag will be delivered

Select vehicles + Add new vehicle

UP 80 xxx78xx

YOUR FAST-TAG ORDER PLACED SUCCESSFULLY

Your fast-tag number XXX-XXXX-000 shall be delivered to your registered address within 3 working days

Address- A10, Classic park, Ahmednagar

Cancel Ok, Thanks

Choose address
Select address for fast tag delivery

Total : INR 350.00
2 vehicles added

Home-landing page

Welcome, Priya

Apply for new fast tag
Within 3 days your Fast tag will be delivered

- Apply for single new fast-tag card
- Apply for new vehicle
- Apply for bulk vehicles

Ancillary services 5 items

- Road services
- SOS Emergency
- Medical

Added vehicles 6 vehicles

- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx
- UP 80 xxx78xx

Welcome, Priya

Fast-Tag Stats

Your fast-tag balance
You have INR 100/-

Today's Journey
Delhi - Agra | Total Toll Charges INR 1100/-
200 kms distance

Activity Progress

Latest Active Fast-Tags

Toll charges Delhi to Agra
200 kms

Cashback redemption

Ancillary services

View fast-tag stats

Add top-up prepay flow

Add Top-up-Prepay

Thu, 27 May 2021

Check total toll amount charges

From: Delhi
To: Sikandrabad
Vehicle type: 4x4 Truck

INR 1100/-
Total Toll Charges

Choose fast tag and vehicle to add top-up

564820xxx78901

xxxx@upi

100/- to be added every 15 days

Add Top-up-Prepay

Thu, 27 May 2021

Check total toll amount charges

From: Delhi
To: Sikandrabad
Vehicle type: 4x4 Truck

INR 1100/-
Total Toll Charges

Choose fast tag and vehicle to add top-up

Choose fast-tag card

- Card: 05789xxx7990 valid 2/26
- Card: 05789xxx7990 valid 2/26
- Card: 05789xxx7990 valid 2/26
- Card: 05789xxx7990 valid 2/26

100/- to be added every 15 days

Auto Top Up Done

INR 300 added to your fast tag card
3452xxx4521xx

Ok, Thank you

Add top up now



Design thinking while working on the ui visual designs: Added a Camera icon to enable users to document or record any video they witness on their journey. This feature will create engagement and build a community of travelers.