



DriveShare Hi-Fidelity Prototype & Heuristic Evaluation Report

1. Iteration Based on Medium-Fidelity Feedback

Our high-fidelity prototype integrates extensive improvements based on the medium-fidelity testing report. Feedback emphasized clarity, safety, flexibility, and differentiated flows for homeowners and student renters. Below is a summary of major refinements, each tied to specific feedback.

Cleaner, More Polished Visual Design (From Testers Feedback)

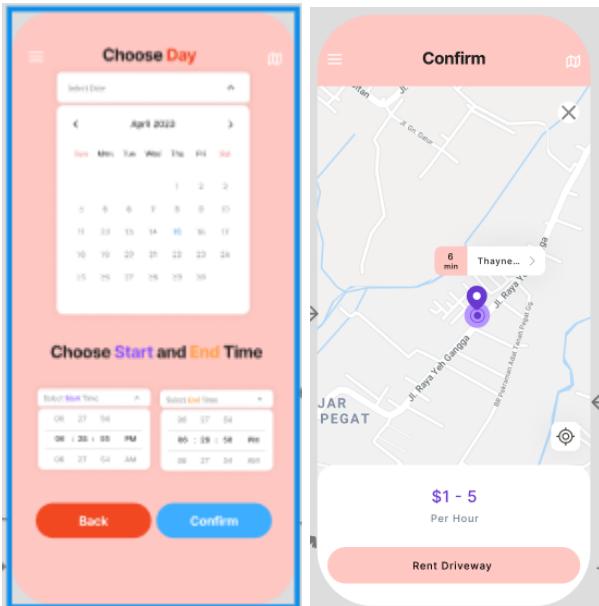
Medium-fi feedback highlighted:

- Inconsistent colors for renters/drivers
- unclear hierarchy

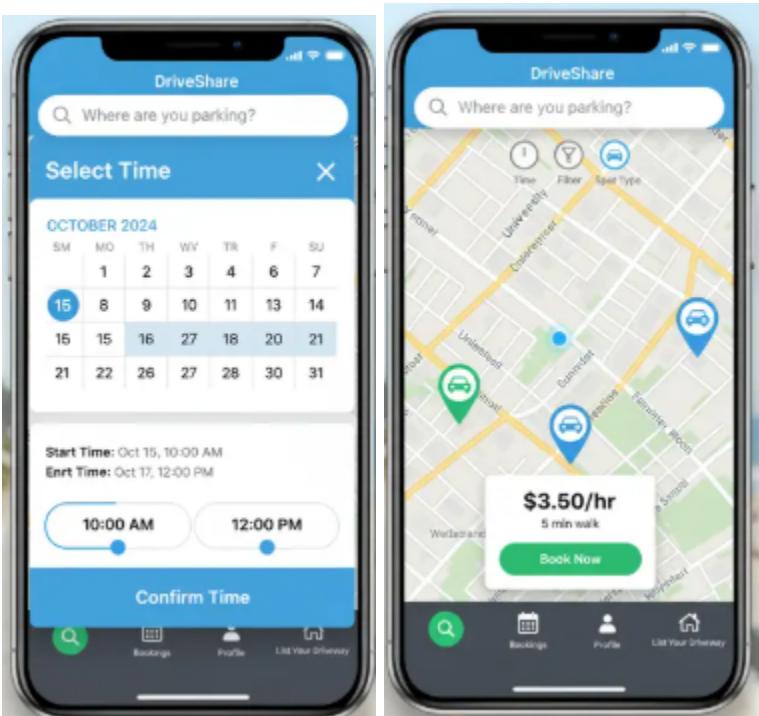
Hi-Fidelity Improvements:

- Implemented a unified design system (type scale, spacing tokens, color system).
- Added clearer visual hierarchy for titles, prices, and safety icons.

Before (Medium-Fidelity):



After (High-Fidelity):



Dedicated Screens for Student Renters vs Homeowners

Medium-fi prototype only fully supported renters. Homeowners had a partially functional listing flow, it was incomplete in comparison to our standards.

Hi-Fidelity Improvements:

Created two complete user paths:

- **Renter Flow:** Search → Map → Filters → Driveway Details → Booking → Confirmation
- **Homeowner Flow:** List Driveway → Upload Photos → Safety Tags → Availability → Pricing → Dashboard

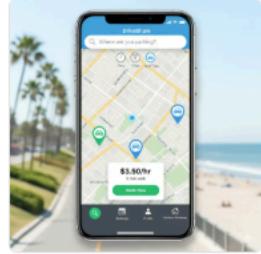
Added a segmented onboarding process tailored to each user type.

For Drivers

Find, book, and navigate to driveways near your destination.

Map Interface

See nearby driveways with price bubbles; pan and zoom the area.



Spot Selection

Browse nearby driveways on the map, compare prices, and tap to book instantly.



Time Selection

Pick start/end times or quick presets for your reservation.



Booking Confirmed

Clear summary with location, date, time, total cost, and 'Get Directions'.



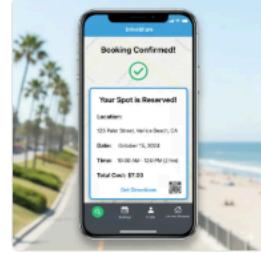
Directions to Spot

Turn-by-turn route to your reserved driveway.



Cashless Payment

Pay securely in-app: receipts saved to your bookings.



For Homeowners

List your driveway, set schedules, and track earnings.

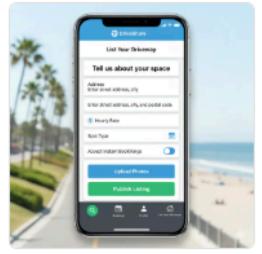
Host Dashboard

Manage active listings and pause/reactivate anytime.



List Your Driveway

Add address, rate, spot type, upload photos, and publish.



Driveway Info

Detailed page with photo, rules, and special notes for drivers.



Availability Schedule

Choose days and time windows; add morning/evening blocks.



Safety & Control

Verified listing, require driver photo ID, lighting checks, and support.



Earnings Dashboard

Weekly earnings chart and payout history; transfer to bank.

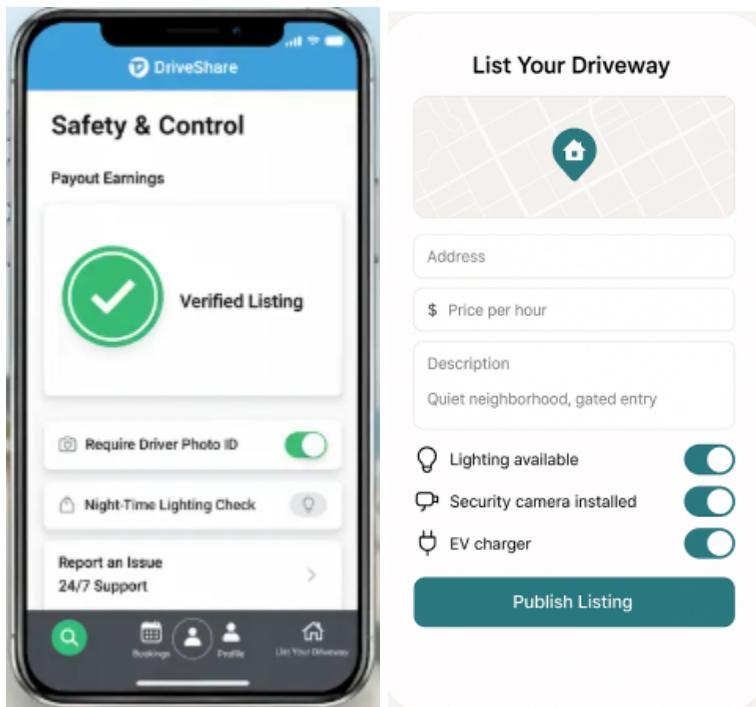


Increased Safety Features (From Student Testing)

Testers repeatedly emphasized *trust*, *verification*, and *safety cues*.

Our improvements include:

- Verified Homeowner Badge
- Safety Features Section:
 - Security cameras
 - Bright lighting
 - Gated driveway
- Neighborhood safety score indicator
- Reviews with sentiment color-coding



2. Nielsen Heuristic Evaluation

We conducted a full heuristic evaluation using Nielsen's 10 Usability Heuristics. Below are the key findings.

H1 — Visibility of System Status

Issue: No clear indicator showing ongoing reservation or loading states.

Fix:

- Persistent “Active Reservation” banner added.
- Loading animations for data fetches.

H2 — Match Between System & Real World

Issue: Some icons unclear (e.g., filter icon looked like settings).

Fix:

- Updated icons to industry-standard sets (Material Symbols).
- Added short labels under icons.

H3 — User Control & Freedom

Issue: No easy way to cancel a booking flow mid-process.

Fix:

- Added “Back” and “Cancel Booking” buttons consistently across all screens.

H4 — Consistency & Standards

Issue: Student and homeowner flows felt like different apps.

Fix:

- Unified typography and button components.
- Shared design tokens across flows.

H5 — Error Prevention

Issue: Homeowners could post without safety tags or photos.

Fix:

- Required fields now include:
 - At least one photo
 - Safety description
 - Accurate availability
 - Price minimum

H6 — Recognition, Not Recall

Issue: Filters hidden inside menus were easy to forget.

Fix:

- Added persistent filter chips on map screen.

H7 — Flexibility & Efficiency of Use

Issue: Repeat users had no saved driveways or prediction.

Fix:

- Added favorites
- Added “Recently Booked Driveways” carousel

H8 — Aesthetic & Minimal Design

Issue: Medium-fi screens were crowded.

Fix:

- Simplified typography
- Reworked card layouts

H9 — Help Users Recognize, Diagnose, Recover From Errors

Issue: Poor microcopy on error states (e.g., “Invalid input”).

Fix:

- Added clear messages:
“This time is already booked—please choose a different slot.”

H10 — Help & Documentation

Issue: Homeowners had no guidance.

Fix:

- Added a “How Listing Works” onboarding walkthrough.

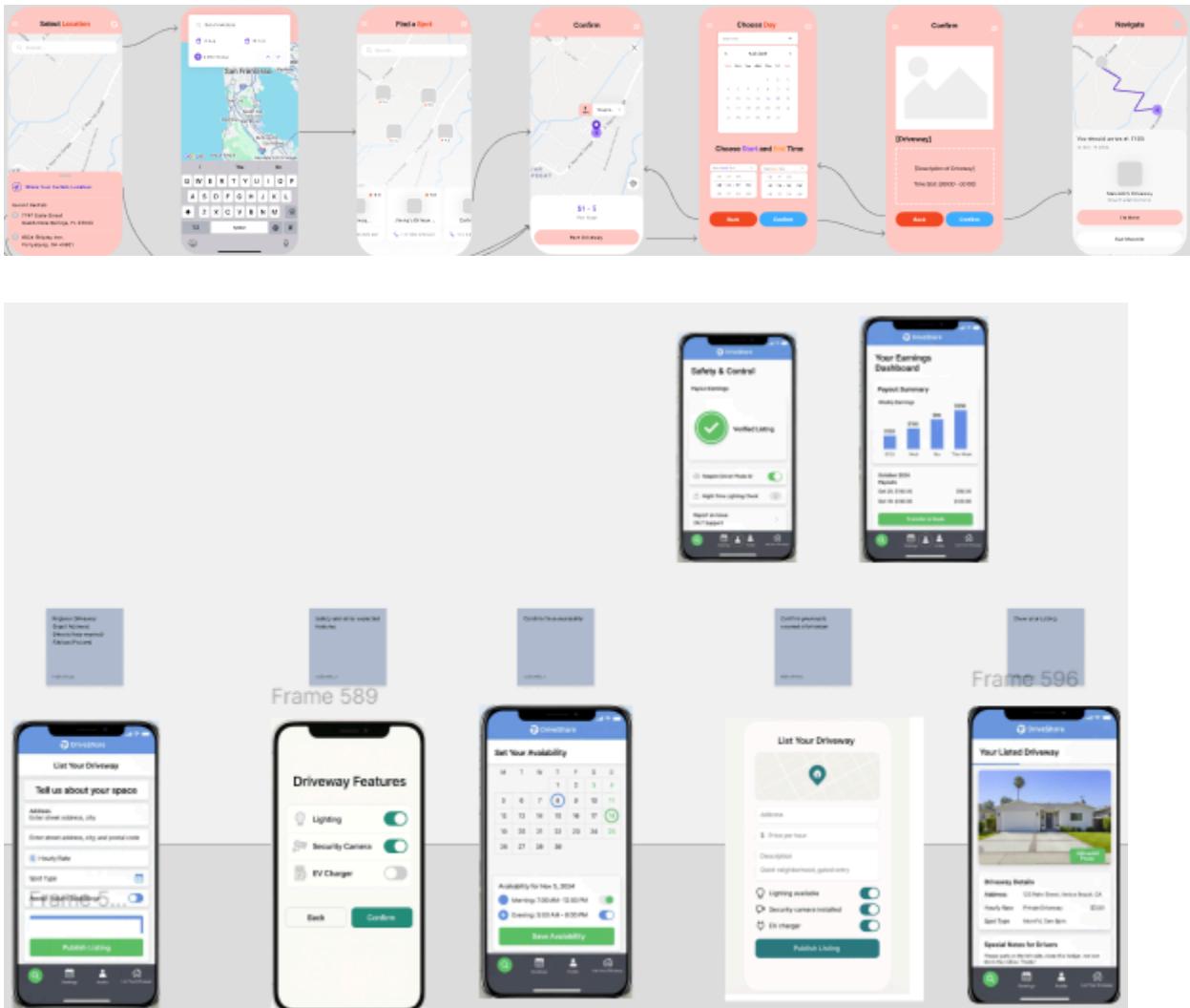
3. Addressing Identified Issues

Every heuristic violation above was addressed in the high-fidelity prototype.

Summary of improvements:

- Added interactive confirmation and cancellation flows
- Improved safety & trust UI
- Reduced clutter and improved navigation clarity
- Added onboarding tutorials
- Added persistent system state indicators
- Improved flow consistency and visual language

The Before Prototype on Figma:



The After:

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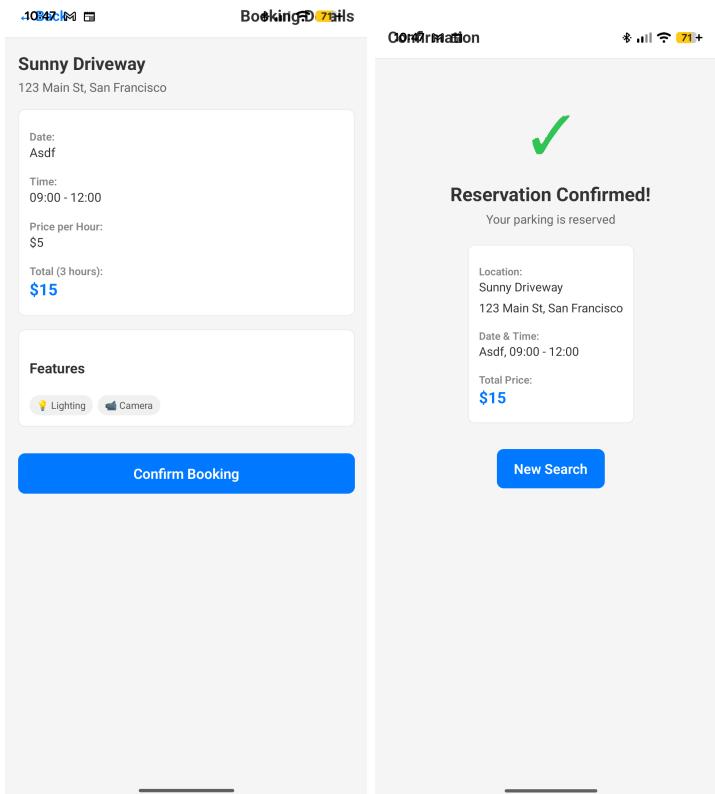
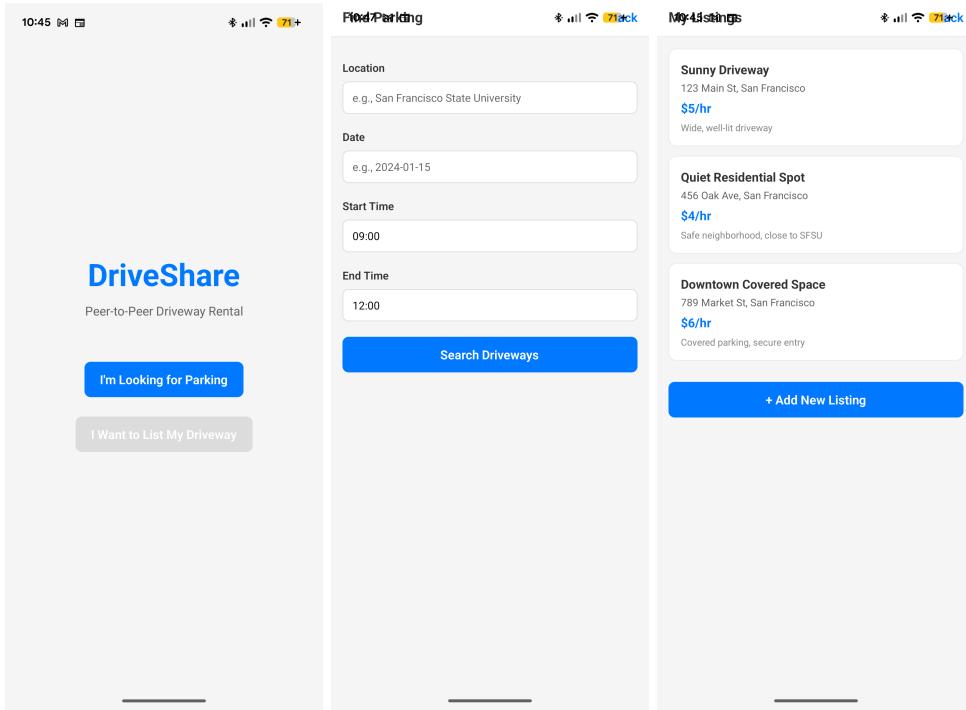
Earnings Dashboard
Weekly earnings chart and payout history; transfer to bank.

4. High-Fidelity Design (Vibe-Coded Prototype)

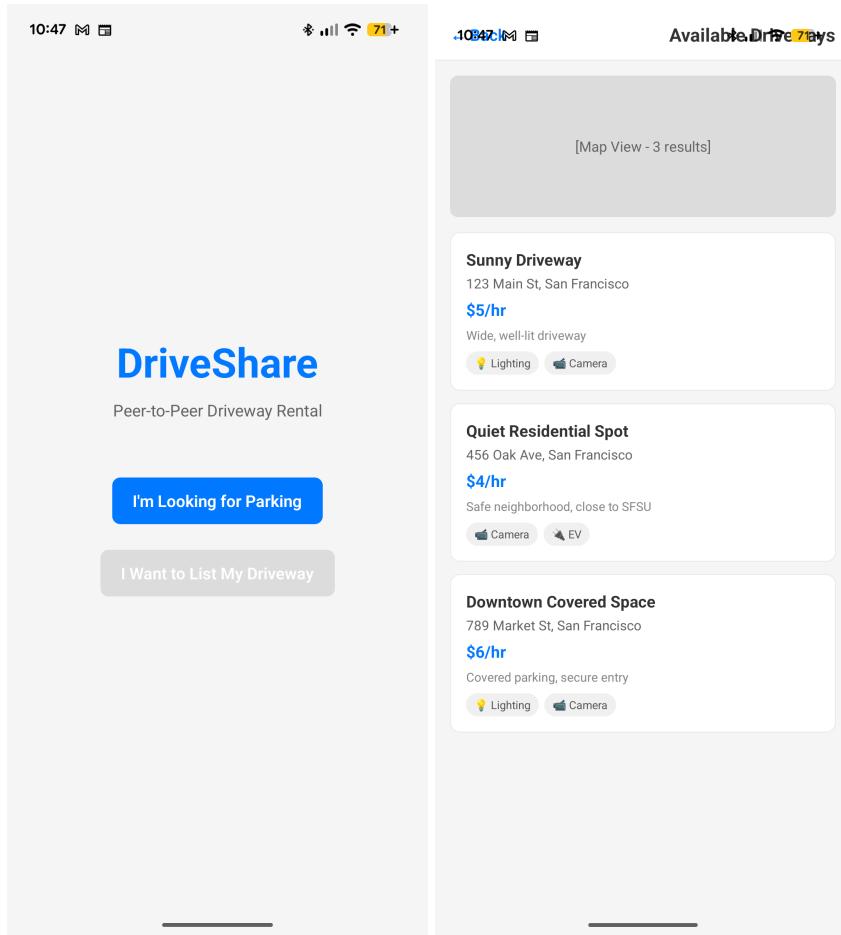
The current high-fidelity is very simple and definitely a work in progress.

Link to Repository for the App: <https://github.com/Rustam751/driveshare>

Below are the screens for a **Student looking for parking**:



Below are the screens for a Renter to list their driveway:



10:45 AM

New Listing

10:46 AM

New Listing

My Listings

10:46 AM

New Listing

My Listings

10:46 AM

New Listing

My Listings

Driveway Title *

Address *

Description

Price per Hour *

Features

Lighting

Security Camera

EV Charger

Availability (Days)

Mon

Tue

Wed

Thu

Fri

Sat

Sun

Available Hours

08:00 to 20:00

Save Listing

Cancel

Sunny Driveway
123 Main St, San Francisco
\$5/hr
Wide, well-lit driveway

Quiet Residential Spot
456 Oak Ave, San Francisco
\$4/hr
Safe neighborhood, close to SFSU

Downtown Covered Space
789 Market St, San Francisco
\$6/hr
Covered parking, secure entry

Asdf
Asdf
\$1/hr
Asdf

+ Add New Listing