

ParkingSpots Platform

Product Overview & User Guide

Prepared For: [Client Name]

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1. Platform Introduction

What is ParkingSpots?

ParkingSpots is a mobile marketplace that connects **parking space owners** with **drivers** who need parking. Think of it as “Airbnb for parking” - property owners can list their unused parking spaces and earn money, while drivers can easily find and book convenient parking near their destination.

The Problem We Solve

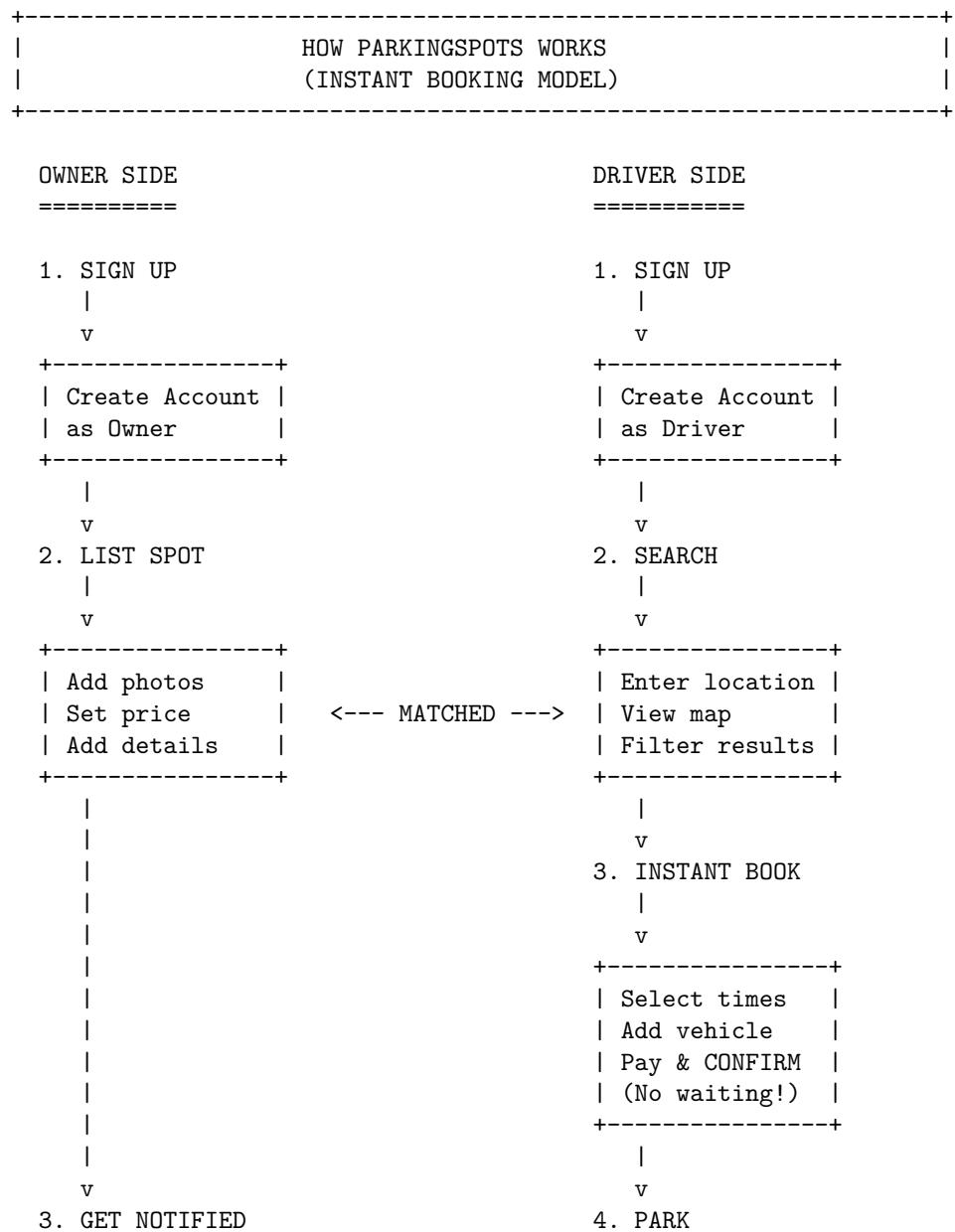
THE PARKING PROBLEM	
FOR DRIVERS:	FOR PROPERTY OWNERS:
- Circling for parking	- Empty driveways
- Expensive parking lots	- Unused garage spaces
- No guaranteed spots	- No way to monetize
- Far from destination	- Security concerns
THE SOLUTION: ParkingSpots	
A trusted marketplace connecting drivers with nearby parking spaces owned by local property owners	

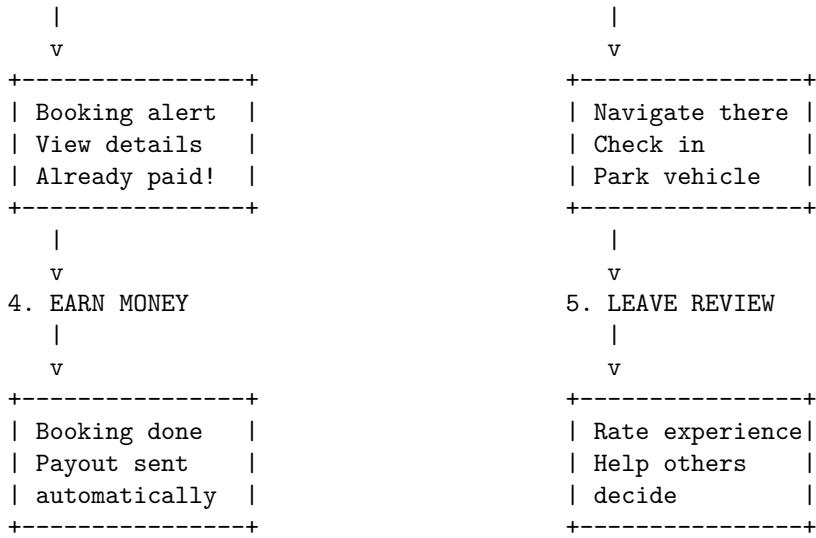
Key Benefits

For Drivers	For Owners	For Your Business
Find parking in seconds	Earn passive income	10% + \$0.50 per transaction
Instant booking - no waiting	Flexible scheduling	Growing user base
Reserve spots in advance	Automatic payments	Low operating costs
Pay securely in-app	Build reputation	Scalable platform
Read reviews first	Full control	Data insights

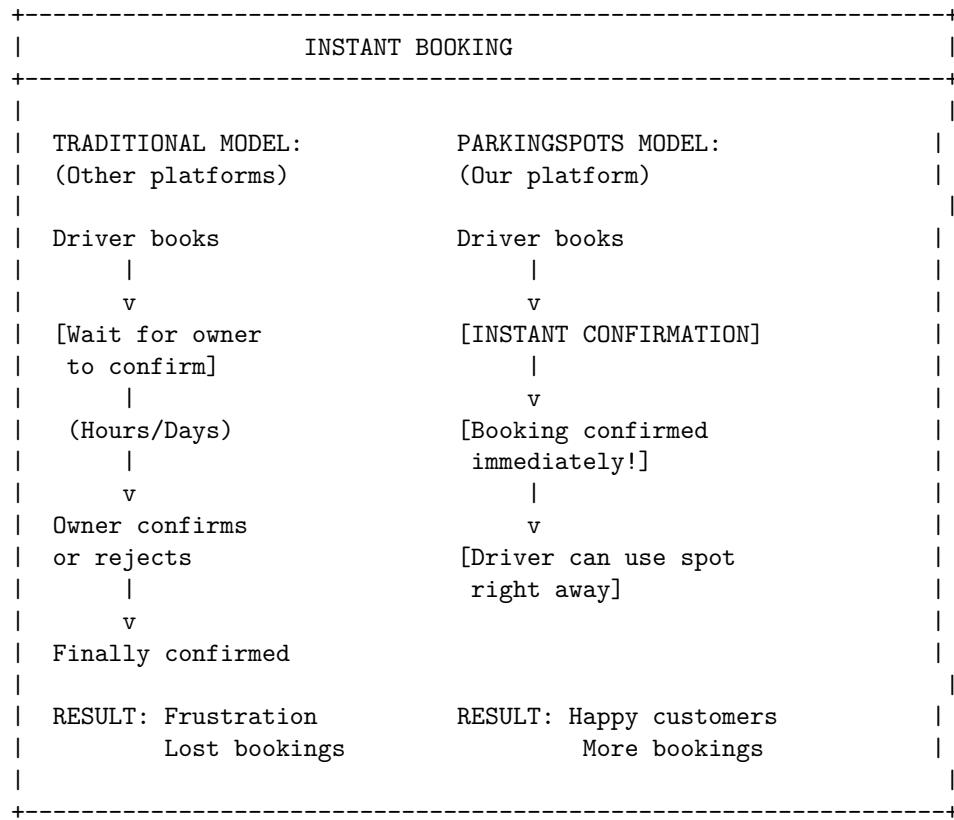
2. How It Works

The Complete Flow (Instant Booking)

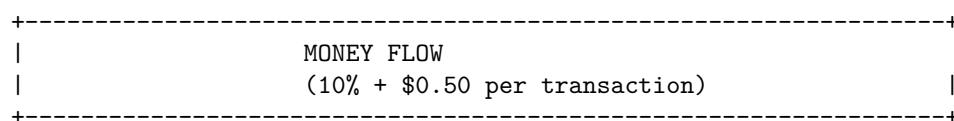




Key Difference: INSTANT BOOKING



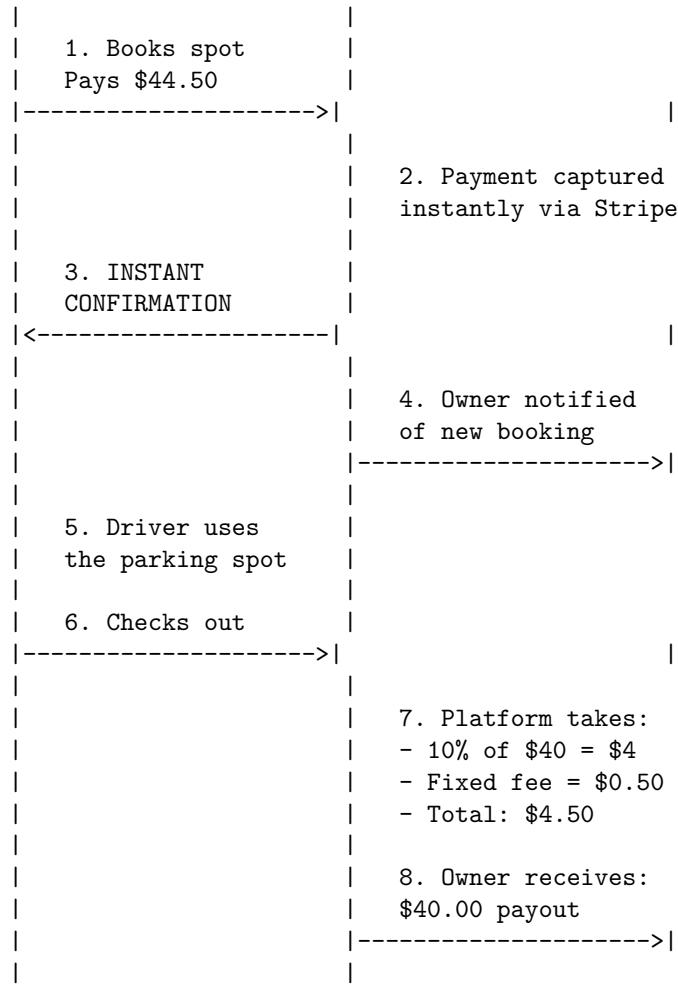
Transaction Flow with Fee Structure



DRIVER

PLATFORM

OWNER



FEE BREAKDOWN EXAMPLE (4 hours @ \$10/hour):

Parking Cost (4 hrs x \$10):	\$40.00
Service Fee (10%):	\$ 4.00
Transaction Fee:	\$ 0.50
<hr/>	
DRIVER PAYS:	\$44.50
<hr/>	
Platform Revenue:	\$ 4.50
Owner Payout:	\$40.00

3. User Types & Roles

Three User Types

USER ROLES		

DRIVER (Renter)	OWNER (Host)	ADMIN (Platform)
- Search spots	- List spots	- Manage users
- INSTANT book	- Set pricing	- Handle disputes
- Make payments	- View bookings	- View analytics
- Write reviews	- Receive payouts	- System config
- View history	- Reply to reviews	- Support tickets
No waiting for confirmation!	No need to confirm bookings!	

User Capabilities Matrix

Capability	Driver	Owner	Admin
Create account	Yes	Yes	Yes
Search for parking	Yes	Yes	Yes
Instant book a spot	Yes	Yes	No
List a parking spot	No	Yes	No
Receive automatic payments	No	Yes	No
Write reviews	Yes	No	No
Respond to reviews	No	Yes	No
Cancel bookings	Yes (with policy)	Yes (block times)	Yes
Manage all users	No	No	Yes
View platform analytics	No	No	Yes

4. User Journeys

Journey 1: Driver Finding & Instantly Booking Parking

```
+-----+
|           DRIVER JOURNEY: INSTANT BOOKING           |
+-----+
```

START: Driver needs parking for a concert downtown

Step 1: Open App

```
+-----+
| [ParkingSpots Logo]   |
|                       |
| Welcome back, John! |
|                       |
| [Find Parking]       |
| [My Bookings]        |
+-----+
```

Step 2: Search Location

```
+-----+
| Where do you need      |
| parking?                |
|
| [Madison Square...]    |
|
| When?                  |
| [Tonight 7PM - 11PM]    |
|
| [Search]                |
+-----+
```

|

v

Step 3: View Results on Map

```
+-----+
| [ MAP VIEW ]           |
| [ * $8/hr ]            |
| [ * $5/hr ]             |
| [ * $12/hr ]            |
| [ VENUE ]               |
|
| 12 spots available     |
| [INSTANT BOOKING]       |
+-----+
```

|

v

Step 4: Select a Spot

```
+-----+
| Residential Driveway   |
| 0.3 miles away          |
| **** (4.8) 45 reviews  |
|
| $5/hour                 |
|
| [INSTANT BOOKING]        |
| No approval needed!     |
|
| [View Details]           |
| [Book Now]                |
+-----+
```

|

v

Step 5: Complete Booking (INSTANT!)

```
+-----+
| Confirm Booking          |
|
| Date: Tonight            |
| Time: 7PM - 11PM          |
| Spot: 123 Main St         |
|
| Parking (4 hrs x $5):    |
|                           $20.00 |
| Service Fee (10%):       |
+-----+
```

```
|           $2.00      |
| Transaction Fee:   |
|           $0.50      |
| -----
| Total:       $22.50  |
|
| [Pay with Visa **42]  |
|
| [Confirm & Book Now] |
+-----+
```

|
| (INSTANT - No waiting!)
v
Step 6: Booking Confirmed!

```
+-----+
| BOOKING CONFIRMED!      |
|
| Your spot is ready.    |
| No approval needed.   |
|
| Confirmation #A1B2C3   |
|
| Access Code: 4521     |
|
| [Get Directions]      |
| [Contact Owner]       |
| [Add to Calendar]     |
+-----+
```

END: Driver has INSTANT guaranteed parking
(No waiting for owner approval!)

Journey 2: Owner Listing Their Parking Spot

```
+-----+
|          OWNER JOURNEY: LISTING A SPOT          |
|          (Set it and forget it - bookings come automatically) |
+-----+
```

START: Homeowner wants to rent out their driveway

Step 1: Sign Up as Owner

```
+-----+
| Join ParkingSpots      |
|
| I want to:            |
| [ ] Find parking      |
| [x] List my space     |
|
| [Continue]             |
+-----+
```

|
v
Step 2: Add Spot Details

```
+-----+
| Describe Your Space |
|
| Title: |
| [Private Driveway...] |
|
| Address: |
| [123 Oak Street...] |
|
| Type: |
| [v] Driveway |
|
| [Next] |
+-----+
```

|

v

Step 3: Add Photos

```
+-----+
| Add Photos |
|
| +---+ +---+
| | [+] | | [+] |
| | Add | | Add |
| +---+ +---+
|
| Tip: Show the
| entrance clearly |
|
| [Next] |
+-----+
```

|

v

Step 4: Set Your Price

```
+-----+
| Set Your Pricing |
|
| Hourly Rate: |
| [$] [5.00] /hour |
|
| Daily Rate (optional): |
| [$] [25.00] /day |
|
| You receive 100% of
| your rate. Fees are
| paid by the driver. |
|
| [Next] |
+-----+
```

|

v

Step 5: Set Availability

```
+-----+
| When is it available? |
| |
+-----+
```

```
| [x] INSTANT BOOKING      |
| Drivers can book        |
| without your approval   |
|
| Mon [8AM] - [6PM]        |
| Tue [8AM] - [6PM]         |
| Wed [8AM] - [6PM]         |
| Thu [8AM] - [6PM]         |
| Fri [8AM] - [10PM]        |
| Sat [All Day]            |
| Sun [All Day]             |
|
| [Next]                   |
+-----+
```

|
v

Step 6: Review & Publish

```
+-----+
| Review Your Listing      |
|
| [Photo]                  |
| Private Driveway          |
| 123 Oak Street            |
| $5/hour | $25/day          |
|
| INSTANT BOOKING: ON       |
|
| [Edit] [Publish]           |
+-----+
```

|
v

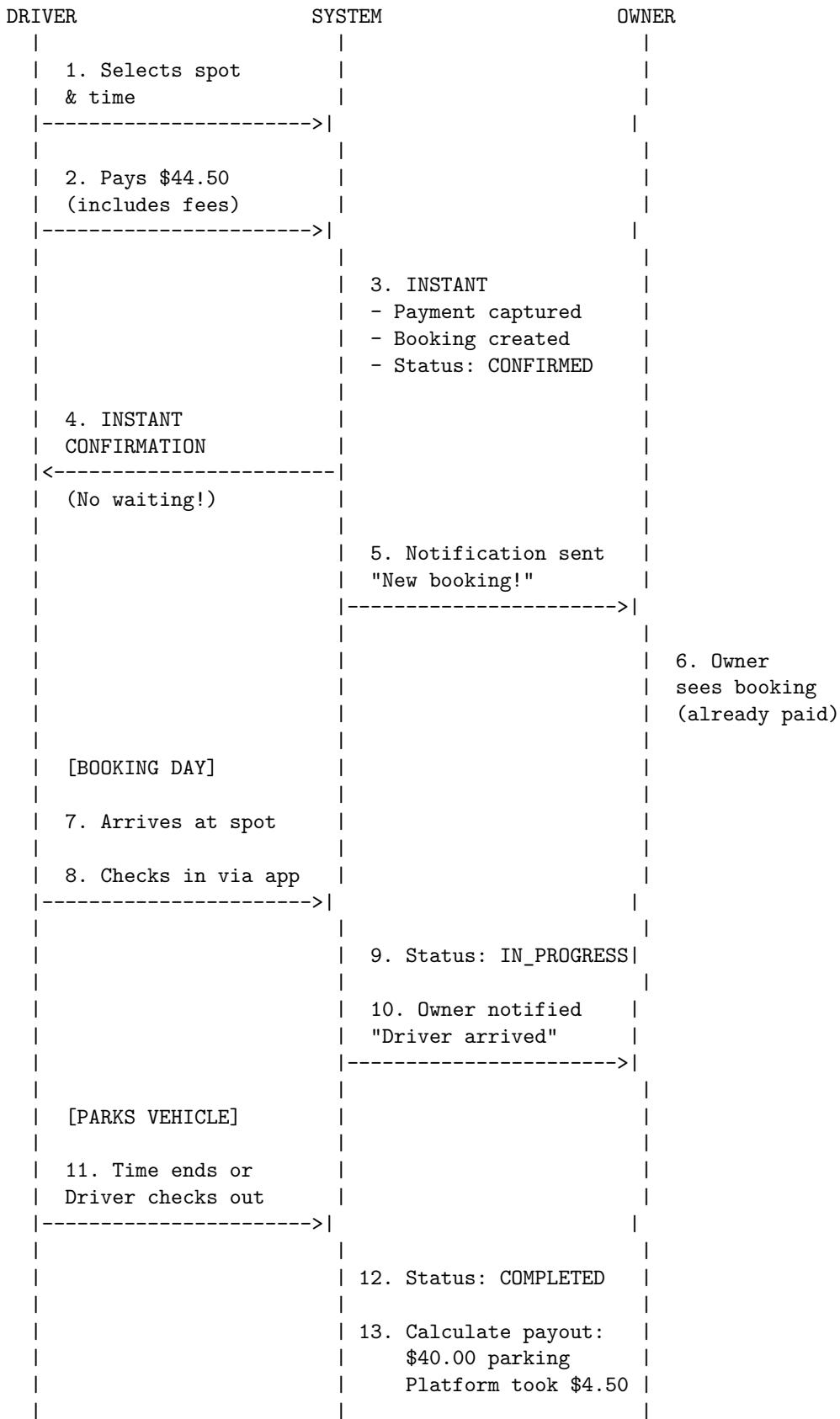
Step 7: Listing Live!

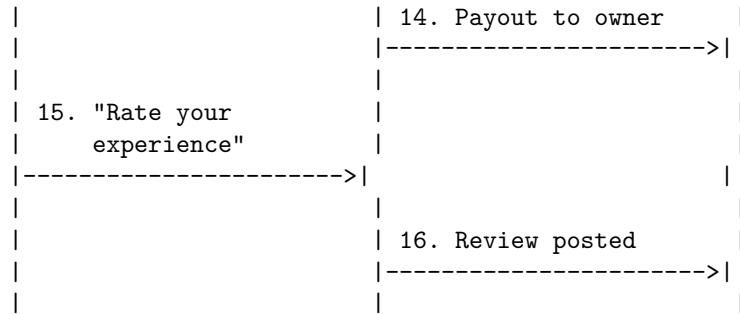
```
+-----+
| Your spot is now          |
| live!                     |
|
| Bookings will be          |
| confirmed instantly.       |
| You'll be notified        |
| when someone books.       |
|
| No action needed -        |
| just earn money!          |
|
| [View My Listings]         |
+-----+
```

END: Owner's spot accepts instant bookings automatically

Journey 3: Complete Booking Lifecycle (Instant)

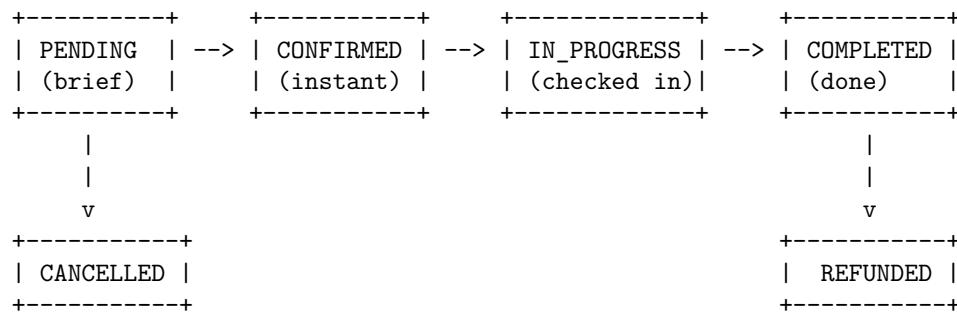
```
+-----+
|           BOOKING LIFECYCLE (INSTANT MODEL)           |
+-----+
```





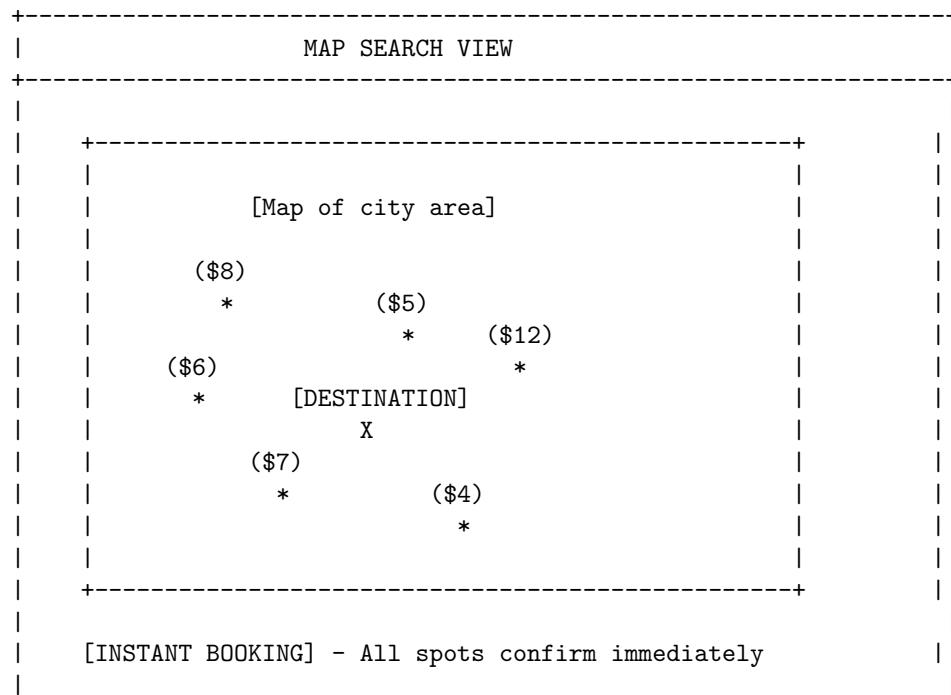
[BOOKING COMPLETE - OWNER NEVER HAD TO APPROVE ANYTHING]

BOOKING STATUS FLOW:



5. Feature Walkthrough

5.1 Location-Based Search



```
| Filters: [Price v] [Distance v] [Type v] [Amenities v] |
| 8 spots within 0.5 miles |
+-----+
```

5.2 Booking & Payment Flow

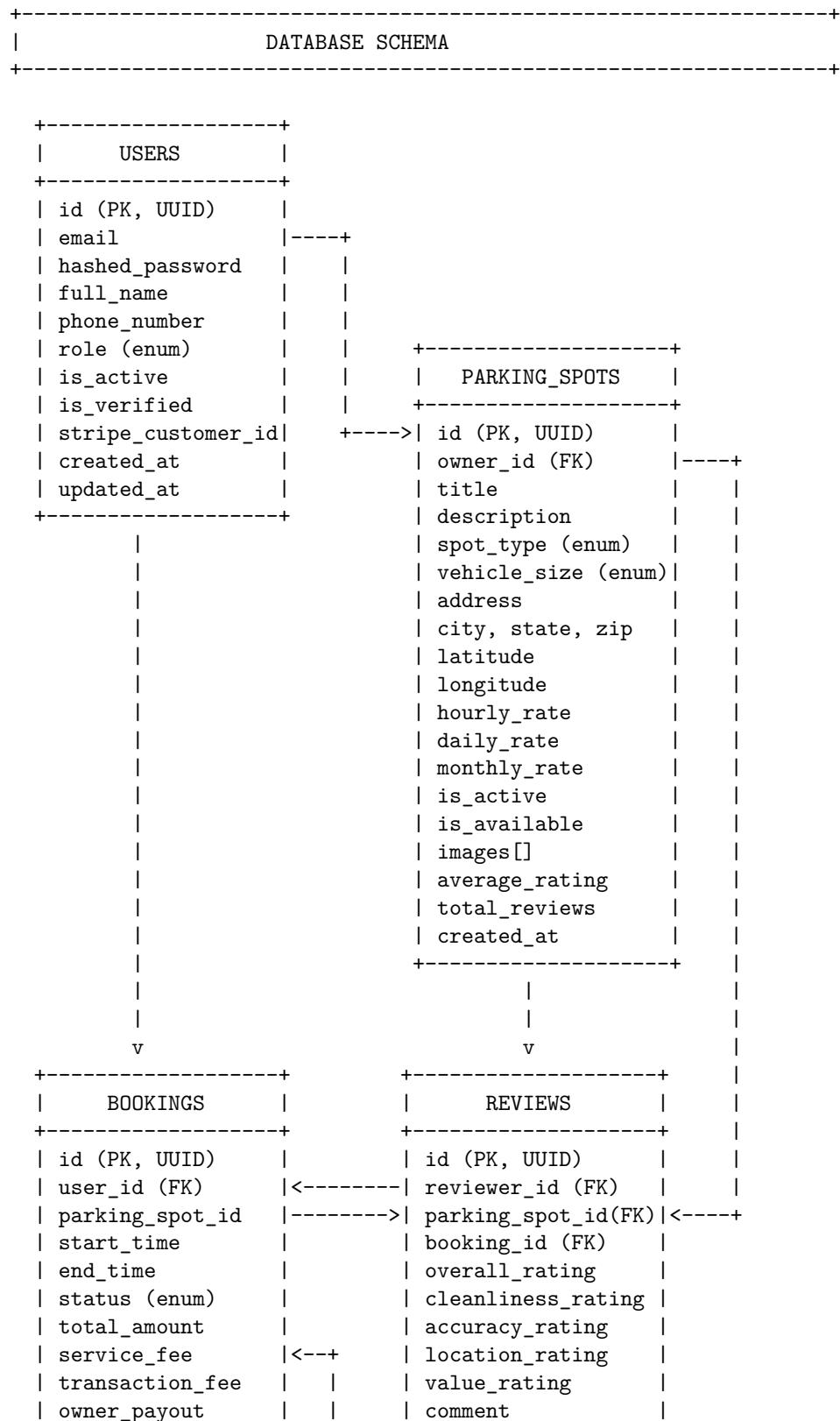
```
+-----+
|          BOOKING PAYMENT SCREEN          |
+-----+
|
| Covered Garage Space
| 123 Main Street
|
| DATE & TIME
+-----+
| Start: Feb 10, 2026 9:00 AM
| End:   Feb 10, 2026 5:00 PM
| Duration: 8 hours
+-----+
|
| VEHICLE INFORMATION
+-----+
| License Plate: [ABC-1234      ]
| Make/Model:     [Toyota Camry]
| Color:         [Silver       ]
+-----+
|
| PRICE BREAKDOWN
+-----+
| Parking (8 hours x $6/hour)      $48.00
| Service Fee (10%)                $ 4.80
| Transaction Fee                  $ 0.50
| -----
| TOTAL                           $53.30
+-----+
|
| PAYMENT METHOD
+-----+
| [VISA] **** * 4242      [Change]
+-----+
|
+-----+
| [    CONFIRM & PAY $53.30    ]
|
| Instant confirmation - no waiting!
+-----+
|
```

5.3 Owner Dashboard (Passive Income View)

```
+-----+
|          OWNER DASHBOARD
|          (No approval needed!)
+-----+
|
| Welcome back, Sarah!
|
| THIS MONTH'S EARNINGS
+-----+
| $1,247.00      +18% vs last month
| (32 bookings)
|
| [=====]
+-----+
|
| RECENT BOOKINGS (Auto-confirmed)
+-----+
| NEW John D.      Today 2:00 PM - 6:00 PM
| Main St Garage   Paid: $24.00
|
| NEW Mike S.      Tomorrow 9:00 AM - 12:00 PM
| Main St Garage   Paid: $18.00
|
| Lisa T.          Feb 12, All Day
| Home Driveway     Paid: $25.00
+-----+
|
| You don't need to approve these - they're automatic!
|
| MY LISTINGS
+-----+
| [Photo] Main St Garage    $6/hr      **** 4.8
| INSTANT BOOKING ON 52 bookings
|
| [Photo] Home Driveway     $4/hr      **** 4.5
| INSTANT BOOKING ON 28 bookings
|
| [+ Add New Listing]
+-----+
|
| PAYOUT SCHEDULE
+-----+
| Next payout: $247.00 on Feb 15
| Pending: $180.00 (3 active bookings)
+-----+
```

6. Database Models

6.1 Entity Relationship Diagram



payment_intent_id		owner_response
payment_status		created_at
vehicle_info		+-----+
checked_in_at		
checked_out_at		
created_at		
+-----+		
v		
+-----+		
PAYMENTS		
+-----+		
id (PK, UUID)		
booking_id (FK)	---	
user_id (FK)		
amount		
service_fee		
transaction_fee		
stripe_payment_id		
status (enum)		
created_at		
+-----+		
v		
+-----+		
PAYOUTS		
+-----+		
id (PK, UUID)		
owner_id (FK)		
amount		
stripe_transfer_id		
status (enum)		
period_start		
period_end		
created_at		
+-----+		

6.2 Key Tables

BOOKINGS Table

Column	Type	Description
total_amount	INTEGER	Total charged to driver (cents)
service_fee	INTEGER	10% of parking cost (cents)
transaction_fee	INTEGER	Fixed \$0.50 = 50 cents
owner_payout	INTEGER	Parking cost only (cents)
status	ENUM	'pending', 'confirmed', 'in_progress', 'completed', 'cancelled', 'refunded'

Fee Calculation Logic

+-----+		
FEE CALCULATION		
+-----+		

FORMULA:

```
parking_cost = hourly_rate * hours
service_fee = parking_cost * 0.10          (10%)
transaction_fee = 50                      ($0.50 fixed)

total_amount = parking_cost + service_fee + transaction_fee
owner_payout = parking_cost               (100% of their rate)
platform_revenue = service_fee + transaction_fee
```

EXAMPLE (4 hours @ \$10/hour):

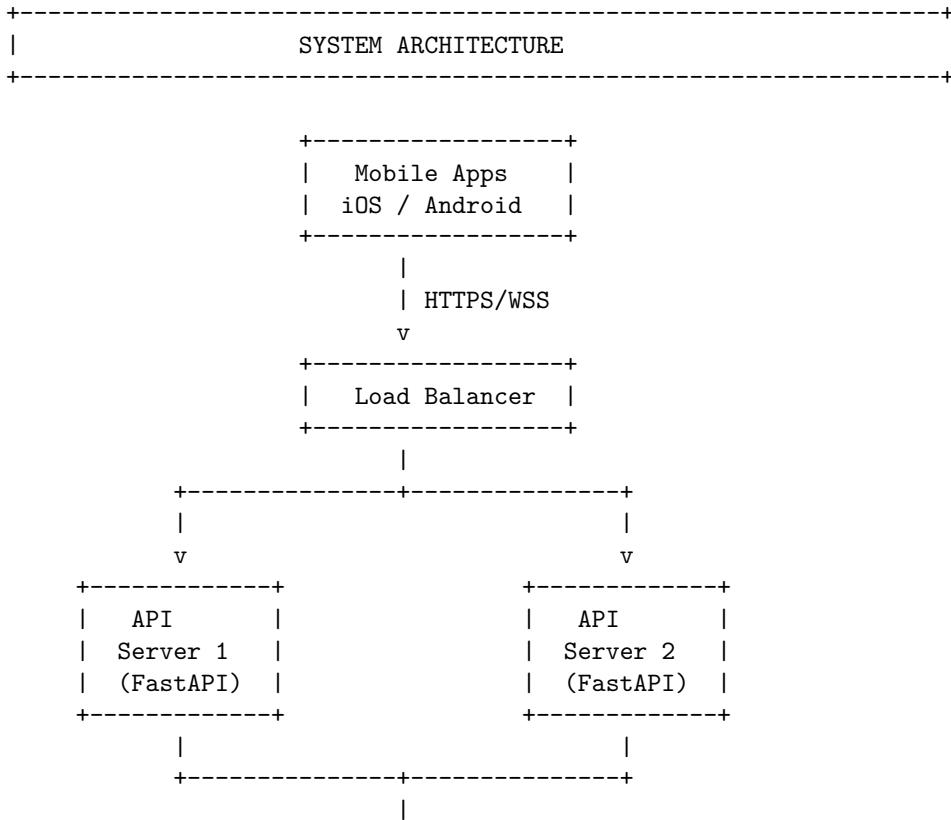
```
parking_cost      = 1000 * 4 = 4000 cents ($40.00)
service_fee       = 4000 * 0.10 = 400 cents ($4.00)
transaction_fee  = 50 cents ($0.50)

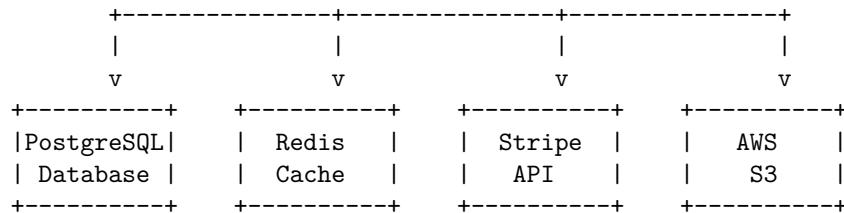
total_amount     = 4000 + 400 + 50 = 4450 cents ($44.50)
owner_payout     = 4000 cents ($40.00)
platform_revenue = 400 + 50 = 450 cents ($4.50)
```

-----+

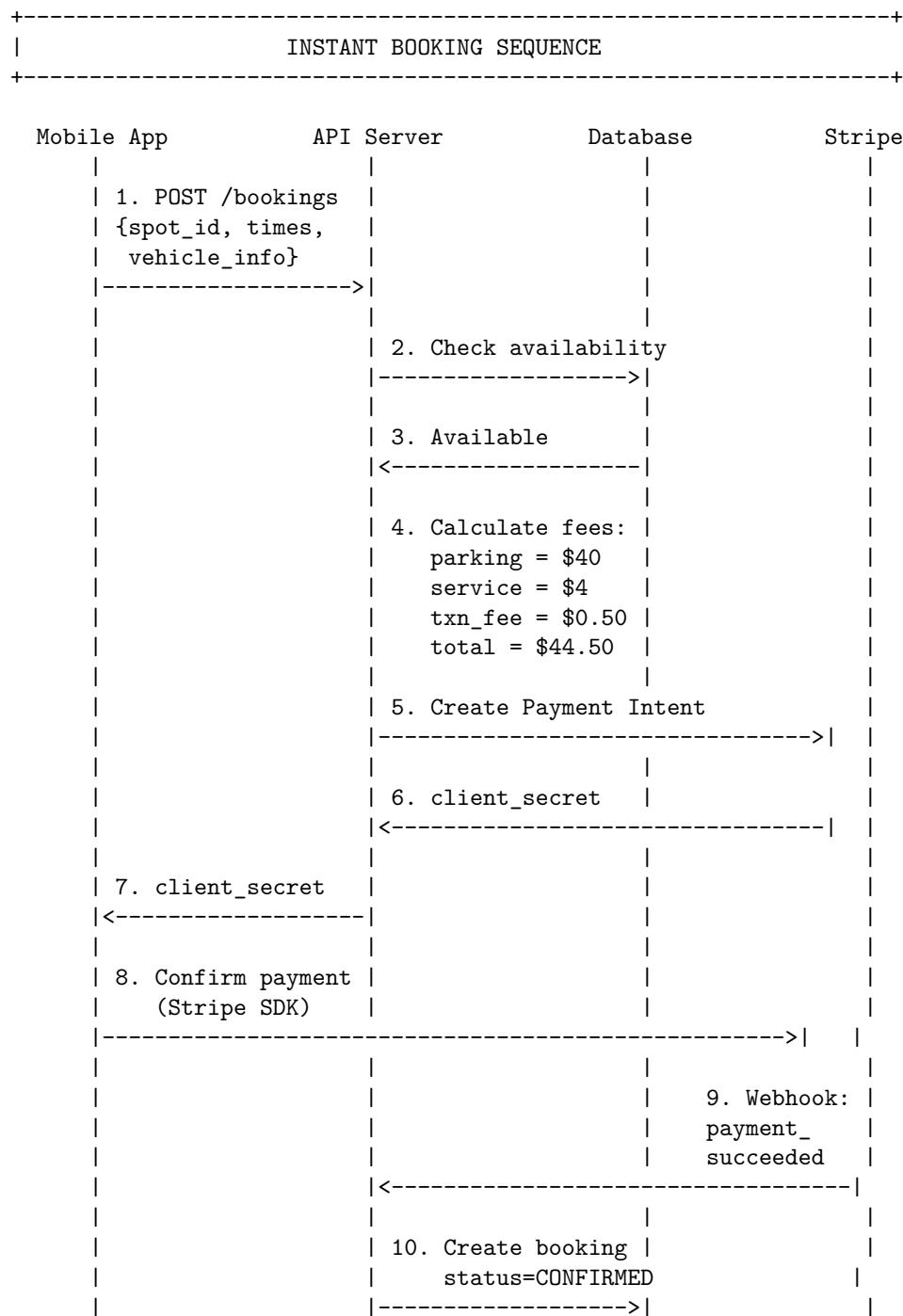
7. System Architecture

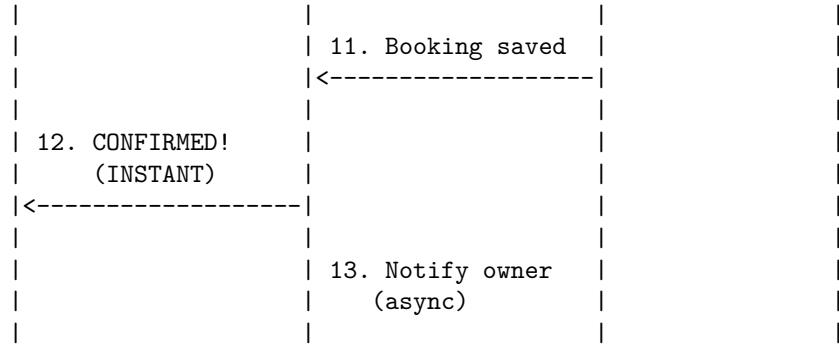
7.1 High-Level Architecture





7.2 Instant Booking Flow (Technical)





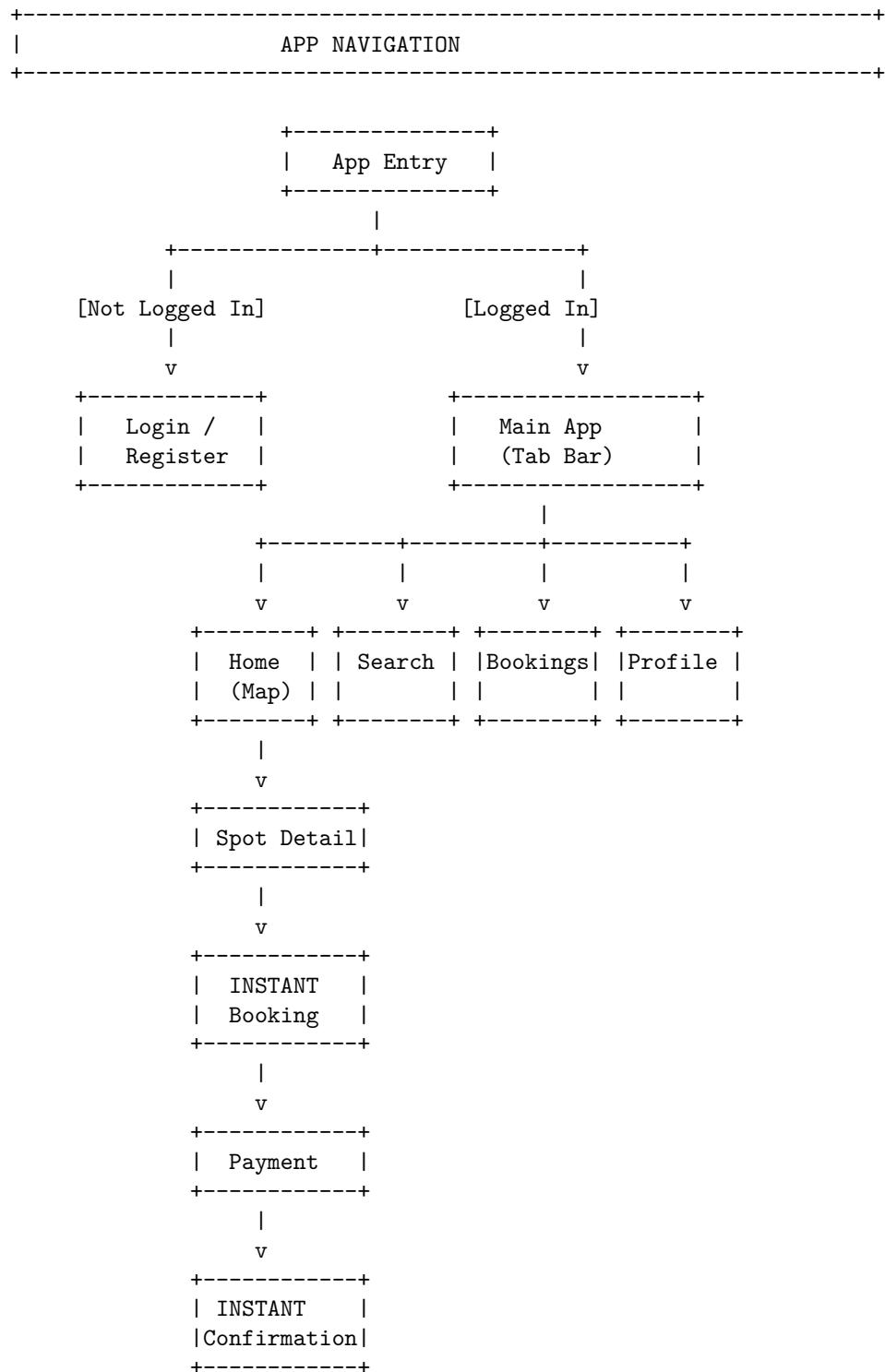
TOTAL TIME: ~3 seconds (payment processing)
NO OWNER APPROVAL REQUIRED!

7.3 API Endpoints

API ENDPOINTS		
AUTHENTICATION		
POST	/api/v1/auth/register	Create new account
POST	/api/v1/auth/login	Get access token
POST	/api/v1/auth/refresh	Refresh token
USERS		
GET	/api/v1/users/me	Get current user
PUT	/api/v1/users/me	Update profile
PARKING SPOTS		
GET	/api/v1/spots	Search spots (with filters)
GET	/api/v1/spots/{id}	Get spot details
POST	/api/v1/spots	Create new listing (owners)
PUT	/api/v1/spots/{id}	Update listing
DELETE	/api/v1/spots/{id}	Delete listing
BOOKINGS (INSTANT)		
GET	/api/v1/bookings/calculate	Calculate price + fees
POST	/api/v1/bookings	Create booking (INSTANT!)
GET	/api/v1/bookings	Get user's bookings
GET	/api/v1/bookings/{id}	Get booking details
POST	/api/v1/bookings/{id}/checkin	Check in
POST	/api/v1/bookings/{id}/checkout	Check out
POST	/api/v1/bookings/{id}/cancel	Cancel booking
PAYMENTS		
POST	/api/v1/payments/intent	Create payment intent
POST	/api/v1/payments/webhook	Stripe webhook handler
REVIEWS		
POST	/api/v1/reviews	Create review
GET	/api/v1/spots/{id}/reviews	Get spot reviews

8. Mobile App Screens

Screen Overview



9. Revenue Model

Fee Structure: 10% + \$0.50 per transaction

REVENUE MODEL	
10% + \$0.50 per transaction	

EVERY BOOKING GENERATES REVENUE:

Example: Driver books 4 hours at \$10/hour

Parking Cost:	\$40.00
+ Service Fee (10%):	\$ 4.00
+ Transaction Fee:	\$ 0.50
<hr/>	
Driver Pays:	\$44.50

SPLIT:

Owner Receives:	\$40.00 (89.9%)
Platform Keeps:	\$ 4.50 (10.1%)
<hr/>	

Fee Examples at Different Price Points

Parking Cost	Service Fee (10%)	Transaction Fee	Driver Pays	Owner Gets	Platform Gets
\$10.00	\$1.00	\$0.50	\$11.50	\$10.00	\$1.50
\$20.00	\$2.00	\$0.50	\$22.50	\$20.00	\$2.50
\$40.00	\$4.00	\$0.50	\$44.50	\$40.00	\$4.50
\$50.00	\$5.00	\$0.50	\$55.50	\$50.00	\$5.50
\$100.00	\$10.00	\$0.50	\$110.50	\$100.00	\$10.50

Revenue Projections

Monthly Bookings	Avg. Parking Cost	Service Fee (10%)	Transaction Fees	Total Platform Revenue
1,000	\$25	\$2,500	\$500	\$3,000
5,000	\$25	\$12,500	\$2,500	\$15,000
10,000	\$25	\$25,000	\$5,000	\$30,000
25,000	\$25	\$62,500	\$12,500	\$75,000
50,000	\$25	\$125,000	\$25,000	\$150,000

10. Security & Trust

Security Features

SECURITY MEASURES	
DATA SECURITY:	
- 256-bit SSL/TLS encryption - Passwords hashed with bcrypt - PCI-DSS compliant payment processing - Data encrypted at rest - Regular security audits	
PAYMENT SECURITY:	
- Stripe handles all card data - No card numbers stored on our servers - 3D Secure for additional verification - Fraud detection built-in	
USER TRUST:	
- Verified email addresses - Review system for accountability - Driver vehicle info collected - Booking history tracked - Support team for disputes	

Summary

What We're Delivering

1. **Instant Booking Platform** - Drivers book immediately, no owner approval needed
2. **Fair Fee Structure** - 10% + \$0.50 per transaction
3. **Complete Mobile App** - iOS and Android via React Native
4. **Robust Backend** - FastAPI with PostgreSQL
5. **Secure Payments** - Stripe integration with automatic payouts
6. **Review System** - Build trust through ratings

Key Differentiator: INSTANT BOOKING

Unlike competitors that require owner approval: - Drivers get **instant confirmation** - Owners earn **passive income** (no work needed) - Higher conversion rate = more revenue for everyone

Database Schema

- **6 Core Tables:** Users, Parking Spots, Bookings, Payments, Payouts, Reviews
- **UUID Primary Keys** for distributed scalability
- **Indexed Queries** for fast location-based search

- **ENUM Types** for data integrity

System Architecture

- **Load Balanced API servers** for high availability
 - **Redis Caching** for real-time availability
 - **Stripe Webhooks** for instant payment confirmation
 - **PostgreSQL** for reliable data storage
-

Questions? Contact us to discuss any aspect of the platform.

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