

ParkingSpots Platform

Product Overview & User Guide

Prepared For: [Client Name]

Date: February 9, 2026

Version: 1.1

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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

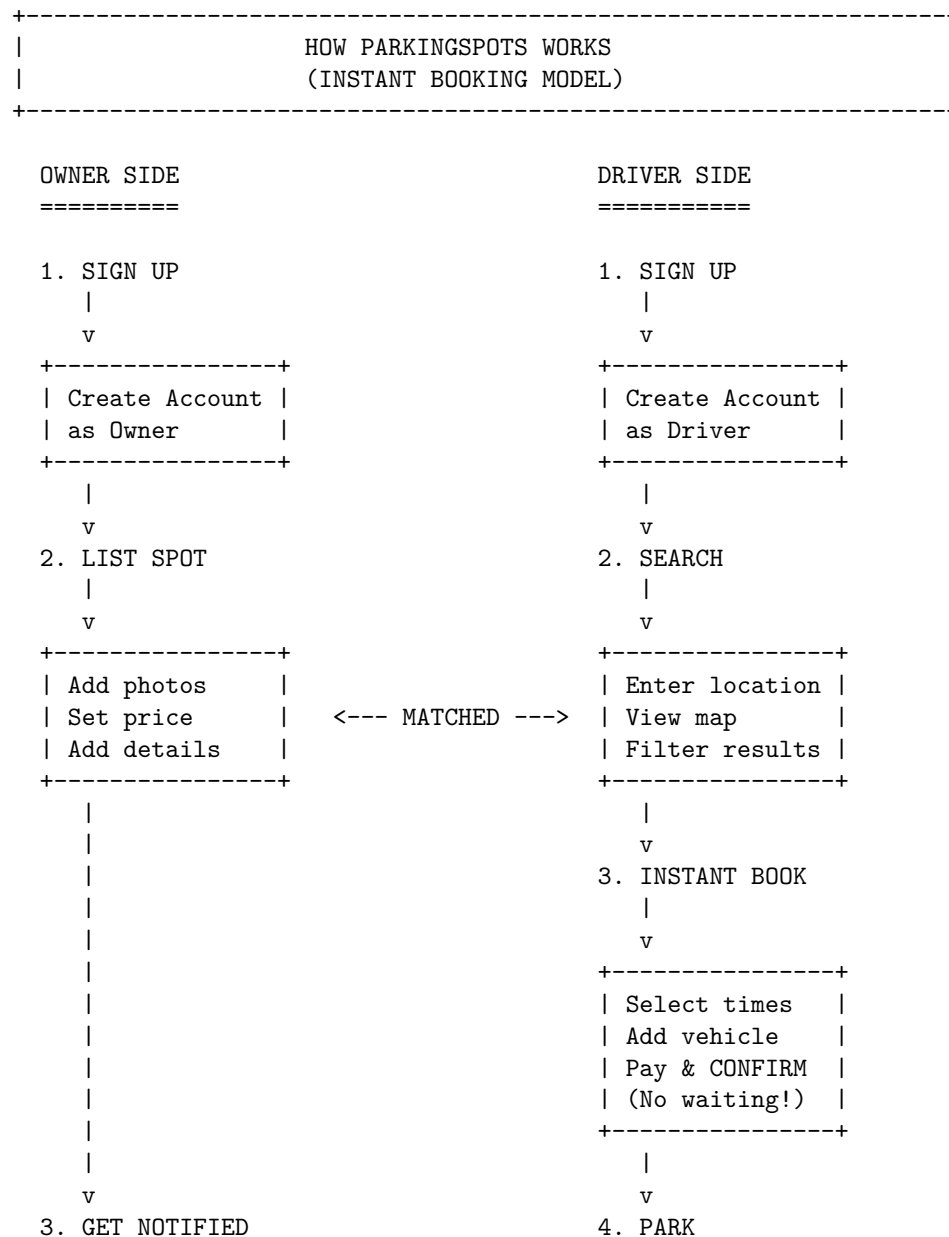
+-----+ THE PARKING PROBLEM +-----+	
FOR DRIVERS:	FOR PROPERTY OWNERS:
+-----+	+-----+
- Circling for parking	- Empty driveways
- Expensive parking lots	- Unused garage spaces
- No guaranteed spots	- No way to monetize
- Far from destination	- Security concerns
+-----+	+-----+
THE SOLUTION: ParkingSpots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

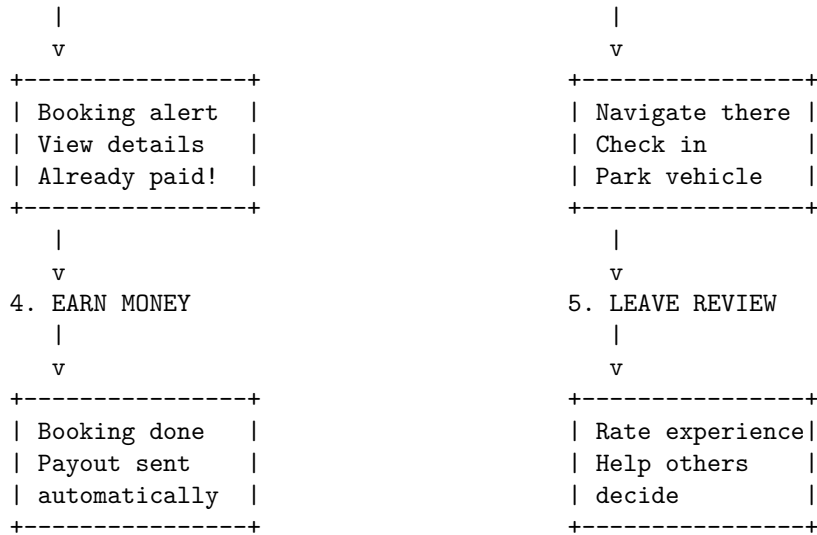
Key Benefits

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)



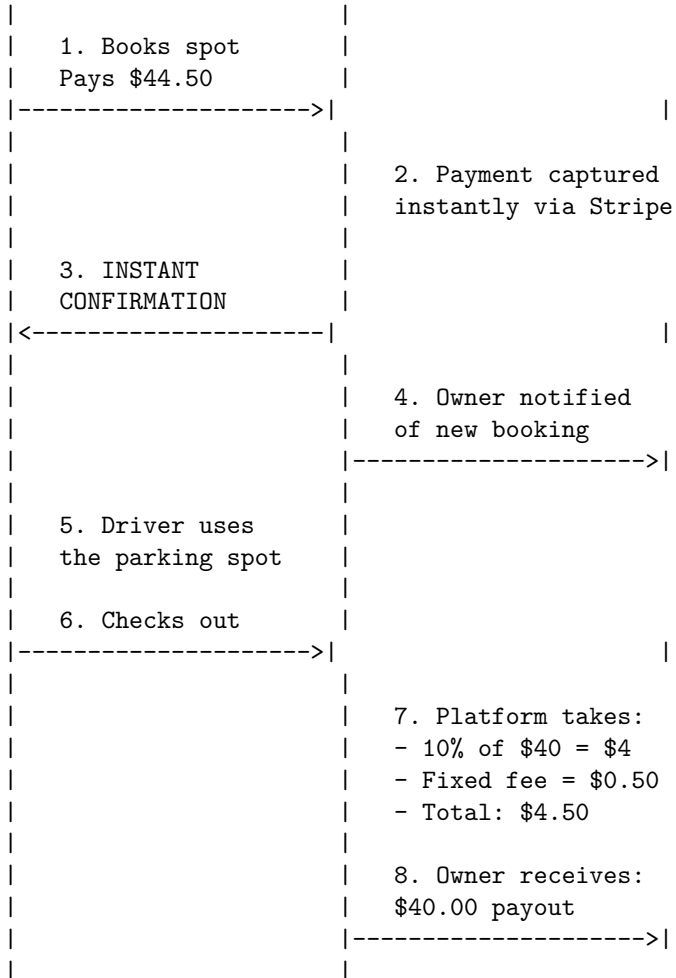


Key Difference: INSTANT BOOKING

INSTANT BOOKING	
TRADITIONAL MODEL: (Other platforms)	PARKINGSPOTS MODEL: (Our platform)
Driver books	Driver books
 v	 v
[Wait for owner to confirm]	[INSTANT CONFIRMATION]
 v	 v
(Hours/Days)	[Booking confirmed immediately!]
 v	 v
Owner confirms or rejects	[Driver can use spot right away]
 v	
Finally confirmed	
RESULT: Frustration Lost bookings	RESULT: Happy customers More bookings

Transaction Flow with Fee Structure

MONEY FLOW (10% + \$0.50 per transaction)		
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
DRIVER PAYS:	\$44.50
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 - INSTANT book - Make payments - Write reviews - View history No waiting for confirmation!	- List spots - Set pricing - View bookings - Receive payouts - Reply to reviews No need to confirm bookings!	- Manage users - Handle disputes - View analytics - System config - Support tickets

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]

|
v

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] |
+-----+
```

|

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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]              |
+-----+

```

```

|
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Step 2: Add Spot Details

```

```

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

```

|
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Step 3: Add Photos

```

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

```

|
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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]  |
+-----+

```

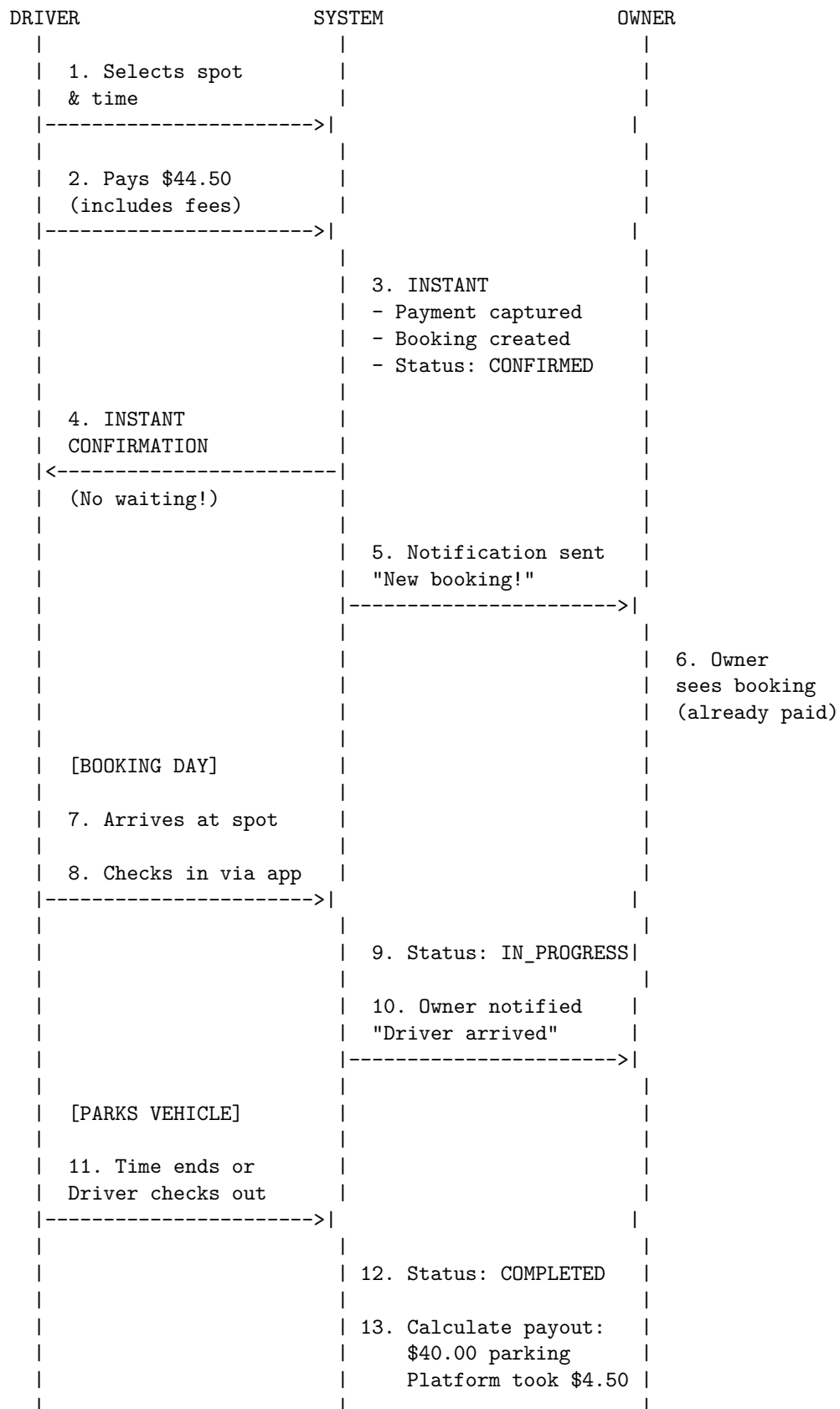
END: Owner's spot accepts instant bookings automatically

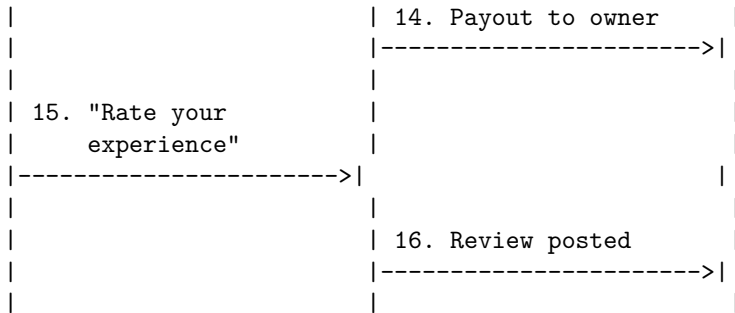
Journey 3: Complete Booking Lifecycle (Instant)

```

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

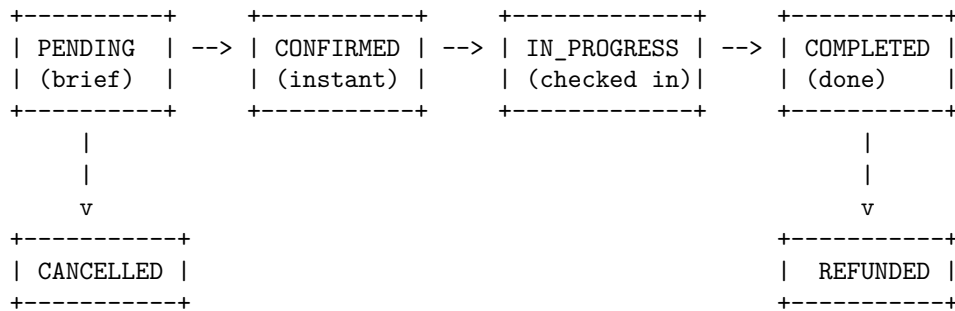
```





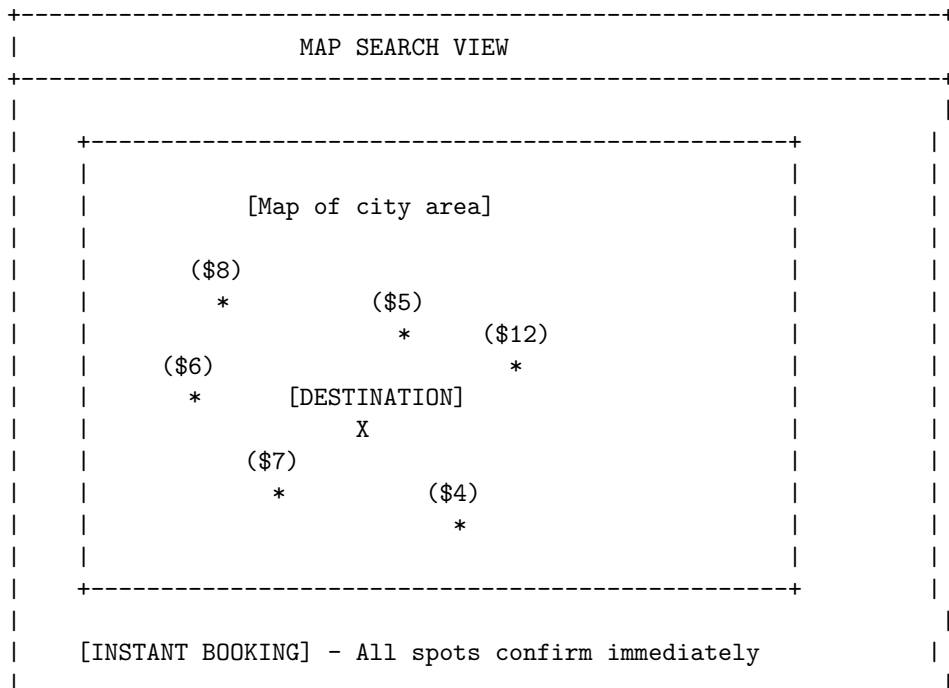
[BOOKING COMPLETE - OWNER NEVER HAD TO APPROVE ANYTHING]

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											
<table border="1"> <tr> <td>Start: Feb 10, 2026</td> <td>9:00 AM</td> </tr> <tr> <td>End: Feb 10, 2026</td> <td>5:00 PM</td> </tr> <tr> <td colspan="2">Duration: 8 hours</td> </tr> </table>		Start: Feb 10, 2026	9:00 AM	End: Feb 10, 2026	5:00 PM	Duration: 8 hours					
Start: Feb 10, 2026	9:00 AM										
End: Feb 10, 2026	5:00 PM										
Duration: 8 hours											
VEHICLE INFORMATION											
<table border="1"> <tr> <td>License Plate: [ABC-1234</td> <td>]</td> </tr> <tr> <td>Make/Model: [Toyota Camry]</td> <td></td> </tr> <tr> <td>Color: [Silver</td> <td>]</td> </tr> </table>		License Plate: [ABC-1234]	Make/Model: [Toyota Camry]		Color: [Silver]				
License Plate: [ABC-1234]										
Make/Model: [Toyota Camry]											
Color: [Silver]										
PRICE BREAKDOWN											
<table border="1"> <tr> <td>Parking (8 hours x \$6/hour)</td> <td>\$48.00</td> </tr> <tr> <td>Service Fee (10%)</td> <td>\$ 4.80</td> </tr> <tr> <td>Transaction Fee</td> <td>\$ 0.50</td> </tr> <tr> <td colspan="2">-----</td> </tr> <tr> <td>TOTAL</td> <td>\$53.30</td> </tr> </table>		Parking (8 hours x \$6/hour)	\$48.00	Service Fee (10%)	\$ 4.80	Transaction Fee	\$ 0.50	-----		TOTAL	\$53.30
Parking (8 hours x \$6/hour)	\$48.00										
Service Fee (10%)	\$ 4.80										
Transaction Fee	\$ 0.50										

TOTAL	\$53.30										
PAYMENT METHOD											
<table border="1"> <tr> <td>[VISA] **** * 4242</td> <td>[Change]</td> </tr> </table>		[VISA] **** * 4242	[Change]								
[VISA] **** * 4242	[Change]										
<table border="1"> <tr> <td>[CONFIRM & PAY \$53.30]</td> </tr> <tr> <td>Instant confirmation - no waiting!</td> </tr> </table>		[CONFIRM & PAY \$53.30]	Instant confirmation - no waiting!								
[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

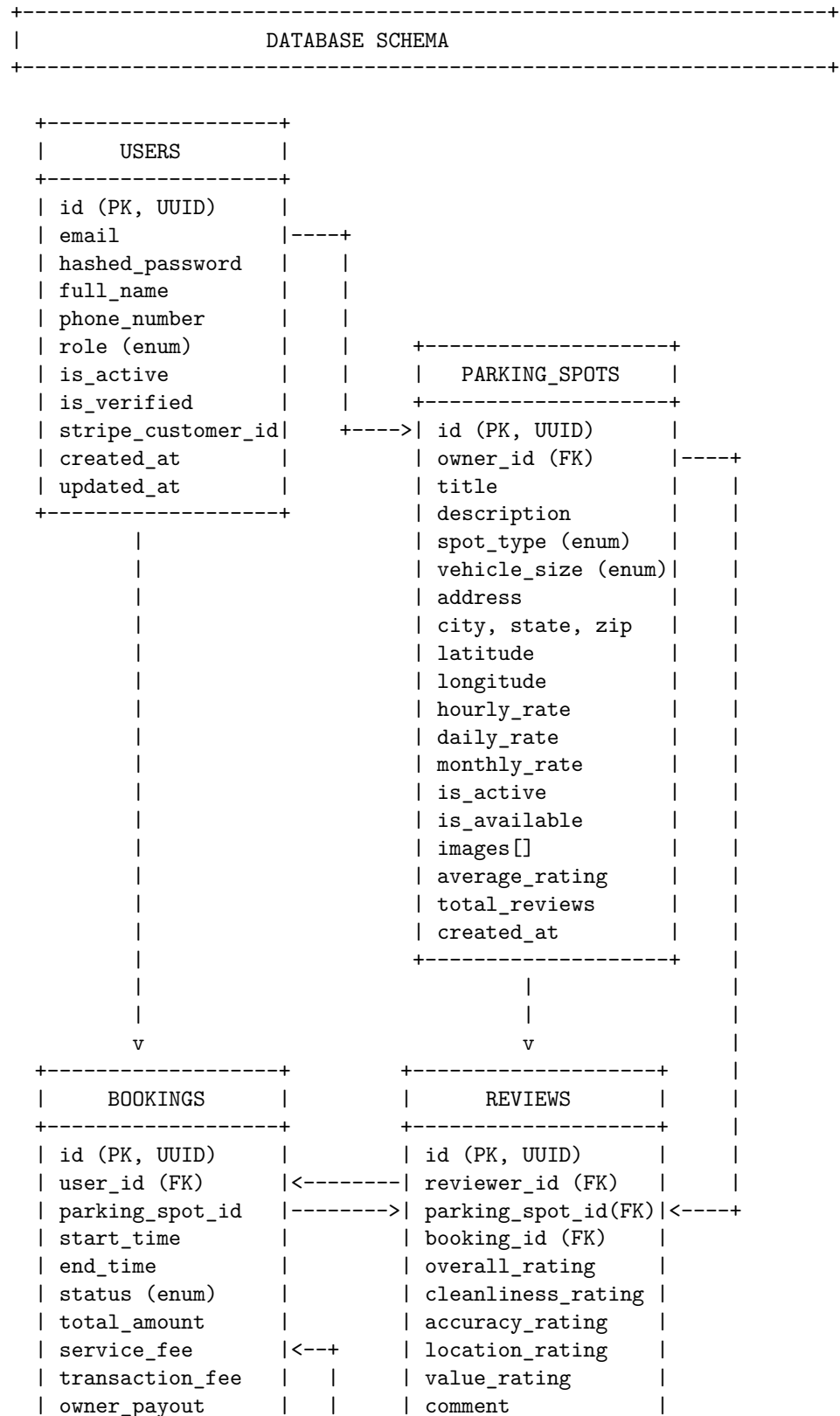
[Photo]	Main St Garage	\$6/hr	**** 4.8
	INSTANT BOOKING ON 52 bookings		
[Photo]	Home Driveway	\$4/hr	**** 4.5
	INSTANT BOOKING ON 28 bookings		
[+ Add New Listing]			

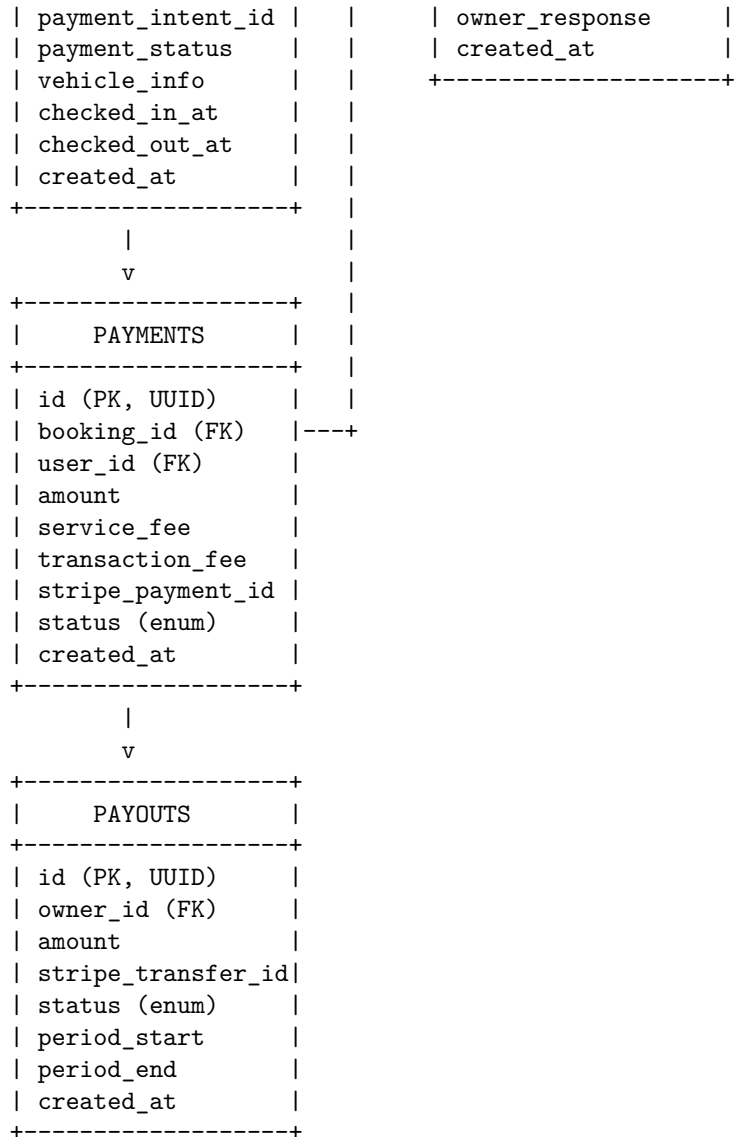
PAYOUT SCHEDULE

Next payout: \$247.00 on Feb 15
Pending: \$180.00 (3 active bookings)

6. Database Models

6.1 Entity Relationship Diagram



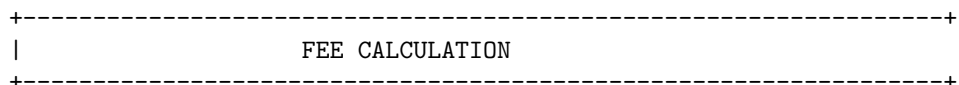


6.2 Key Tables

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



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)

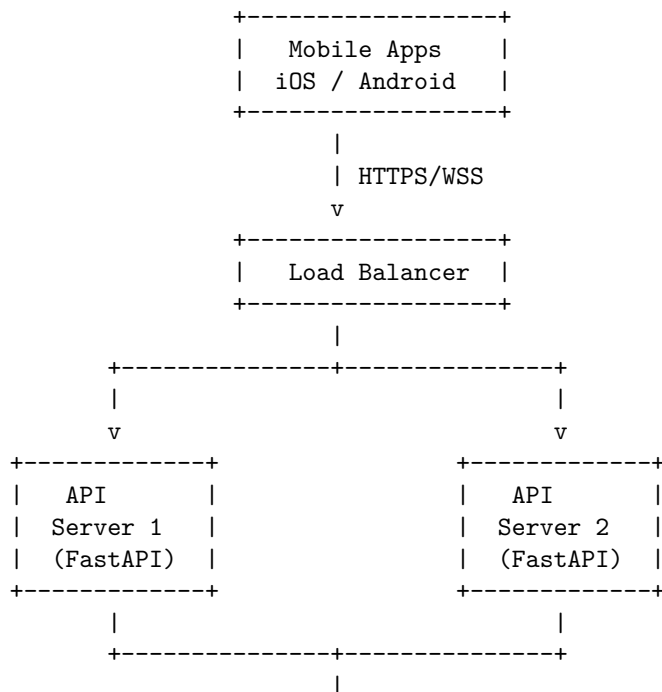
total_amount    = 4000 + 400 + 50 = 4450 cents ($44.50)
owner_payout    = 4000 cents ($40.00)
platform_revenue = 400 + 50 = 450 cents ($4.50)
```

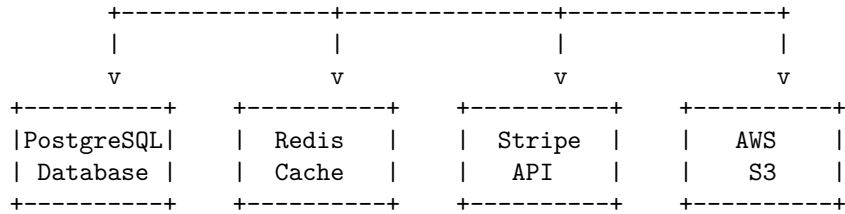
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7. System Architecture

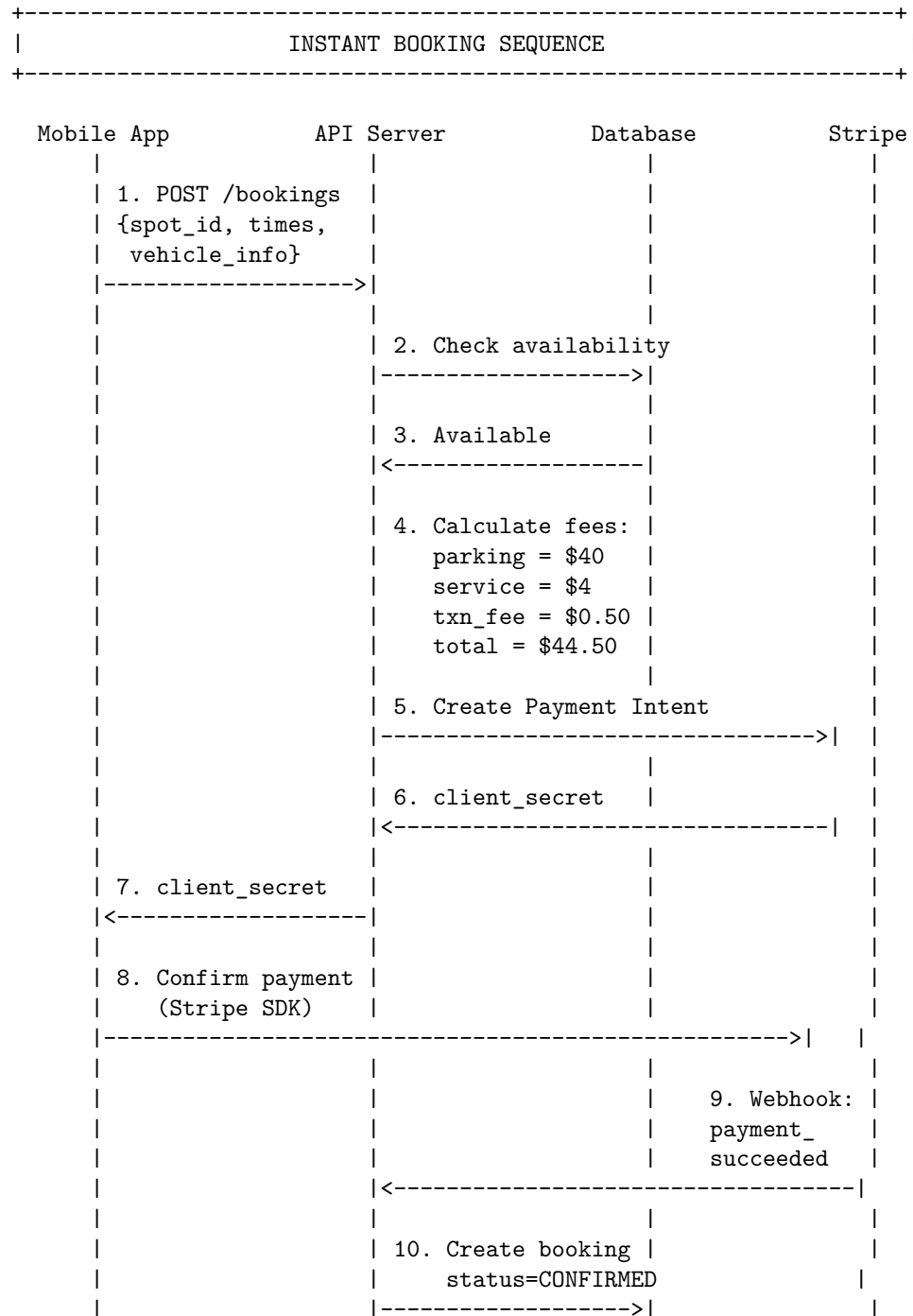
7.1 High-Level Architecture

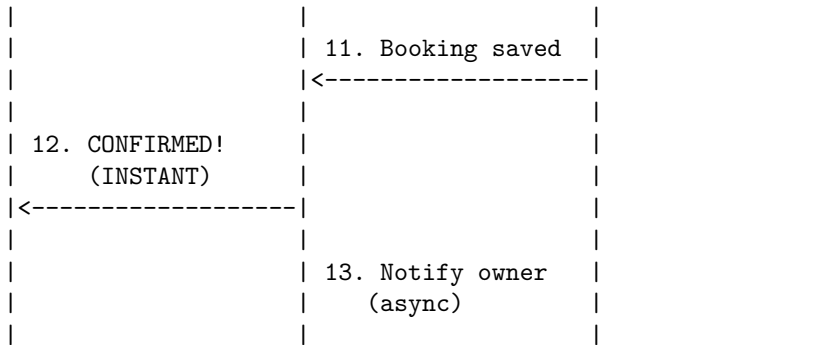
+-----+
| SYSTEM ARCHITECTURE |
+-----+





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

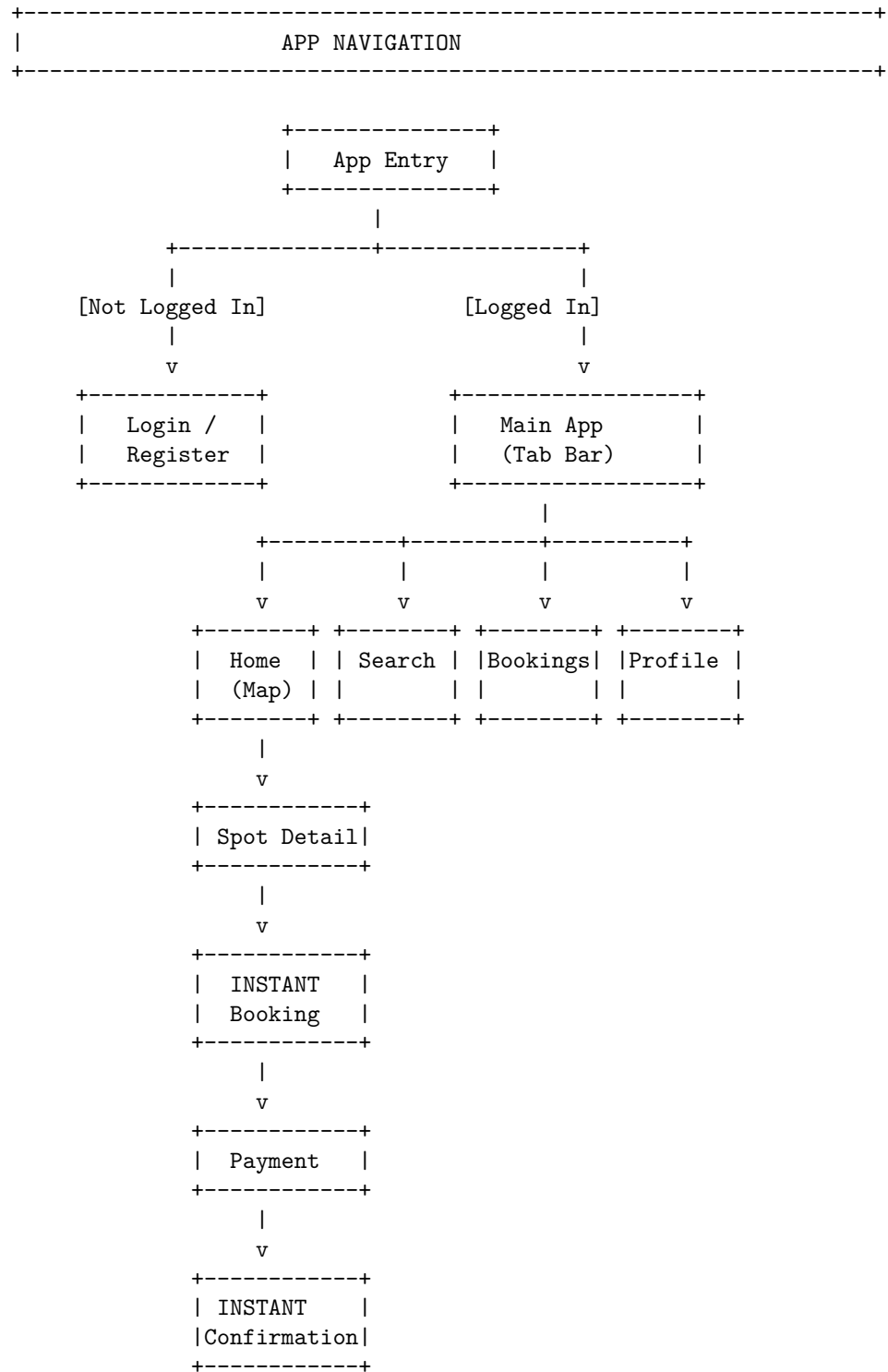
POST	/api/v1/payments/intent	Create payment intent
POST	/api/v1/payments/webhook	Stripe webhook handler

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

Driver Pays:	\$44.50

SPLIT:

Owner Receives:	\$40.00	(89.9%)
Platform Keeps:	\$ 4.50	(10.1%)

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.

Document Version 1.1 - February 9, 2026