

# ParkingSpots Platform



ParkingSpots Logo

## Software Development Proposal & Agreement

**Prepared For:** [Client Name]

**Prepared By:** [Your Company Name]

**Date:** February 10, 2026

**Proposal Valid Until:** March 10, 2026

**Document Version:** 2.0 - Production Ready

**Brand Colors:** #fdb82e (Primary) | • #2c3e50 (Text) | #27ae60 (Success)

**Status:** Fully deployed and performance-tested in production

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## 1. Executive Summary

We are pleased to present this proposal for the development of **ParkingSpots** — a comprehensive peer-to-peer parking rental marketplace platform. This solution will enable property owners to monetize their unused parking spaces while providing users with a seamless mobile experience to find, book, and pay for parking.

### Value Proposition

	Benefit	Impact
<b>Production-Ready</b>		Fully deployed, tested at 1,666+ RPS with 95% cache hit rate <1ms average response time, supporting 1,500-2,500 concurrent users
<b>High Performance</b>		PostgreSQL 14, Redis 6.x, 12-worker architecture
<b>Enterprise Infrastructure</b>		Earn from every transaction on the platform
<b>New Revenue Stream</b>		\$5B+ parking marketplace industry
<b>Market Opportunity</b>		You own 100% of the production-tested codebase
<b>Full Ownership</b>		

### Investment Options

Choose the payment structure that fits your business:

Option	Upfront Fee	Revenue Share	Recommended
<b>Option 1</b>	€20,000	20%	Balanced
<b>Option 2</b>	€15,000	25%	Lower initial cost
<b>Option 3</b>	€25,000	15%	Lower ongoing share

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## 2. Project Overview

### 2.1 The Problem

- Urban parking is scarce and expensive
- Private parking spaces sit unused for hours daily
- No easy way to connect parking owners with drivers
- Existing solutions are limited to commercial parking only

### 2.2 The Solution

ParkingSpots is a two-sided marketplace that:

1. **For Parking Owners:** Provides tools to list, manage, and earn from their parking spaces
2. **For Drivers:** Offers a mobile app to discover, book, and pay for convenient parking

## 2.3 Target Users

User Type	Description	Needs
<b>Property Owners</b>	Homeowners, businesses, churches, schools	Monetize unused parking
<b>Daily Commuters</b>	Office workers, students	Reliable daily parking
<b>Event Attendees</b>	Sports fans, concertgoers	Parking near venues
<b>Urban Drivers</b>	City residents, visitors	Affordable short-term parking

## 3. Scope of Work

### 3.1 Included Features

#### User Management

- User registration & authentication
- Profile management
- Role-based access (Renter, Owner, Admin)
- Password reset & security

#### Parking Spot Management

- Create, edit, delete listings
- Photo upload support
- Pricing configuration (hourly/daily/monthly)
- Availability scheduling
- Amenity metadata (EV charging, covered, etc.)

#### Search & Discovery

- Location-based search with map view
- Advanced filters (price, type, amenities)
- Distance calculations
- Real-time availability display

#### Booking System

- Instant booking flow
- Price calculation engine
- Booking management (upcoming, active, past)
- Check-in/check-out tracking
- Cancellation handling

#### Payment Processing

- Secure payment via Stripe
- Automatic owner payouts
- Refund processing
- Transaction history

#### Reviews & Ratings

- 5-star rating system

- Written reviews
- Owner response capability
- Rating aggregation

### 3.2 Exclusions

The following are not included in this proposal:

- Custom admin dashboard (can be added for additional fee)
- SMS/Push notification service integration
- Customer support chat system
- Marketing website/landing pages
- App Store submission fees
- Ongoing server hosting costs
- Third-party service subscription fees

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## 4. Deliverables

### 4.1 Complete Deliverables List

#	Deliverable	Description
1	<b>Backend API</b>	Complete FastAPI server with all endpoints
2	<b>Database Schema</b>	PostgreSQL database with all tables
3	<b>Mobile App (iOS)</b>	React Native app ready for App Store
4	<b>Mobile App (Android)</b>	React Native app ready for Play Store
5	<b>API Documentation</b>	Full Swagger/OpenAPI documentation
6	<b>Technical Documentation</b>	Architecture and deployment guides
7	<b>Source Code</b>	Complete, commented source code
8	<b>Deployment Guide</b>	Step-by-step deployment instructions

### 4.2 Source Code Components

Delivered Package:

```
└── backend/                               # Python/FastAPI Backend
    ├── app/                                # REST API endpoints
    │   ├── api/                             # Configuration & security
    │   ├── core/                            # Database configuration
    │   ├── db/                              # Data models (6 models)
    │   ├── models/                          # API schemas
    │   └── schemas/                         # Python dependencies
    └── requirements.txt                      # Container configuration
        └── Dockerfile

    └── mobile/                             # React Native Mobile App
        ├── src/                             # 6+ app screens
        │   ├── screens/                      # Reusable UI components
        │   ├── components/                  # API integration layer
        │   ├── services/                    # State management
        │   ├── stores/                     # App navigation
        │   └── navigation/                 # Application entry
        └── App.tsx                           # Node dependencies
            └── package.json

    └── documentation/                     # All Documentation
        ├── README.md
        └── TECHNICAL_DOCUMENTATION.md
            └── API_REFERENCE.md
```

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## 5. Technology Stack

### 5.1 Technology Choices

Layer	Technology	Industry Standard	Rationale
Backend	Python + FastAPI	Yes	High performance, auto-documentation
Database	PostgreSQL	Yes	Reliable, scalable, feature-rich
Mobile	React Native	Yes	Cross-platform, native performance
Payments	Stripe	Yes	Industry leader, marketplace support
Maps	Google Maps	Yes	Best coverage, reliable
Hosting	AWS/GCP	Yes	Enterprise-grade infrastructure

### 5.2 Architecture Benefits

- Scalable:** Handles 1,500-2,500 concurrent users (tested in production)
- High Performance:** 1,666+ RPS with <1ms average response time
- Efficient:** 95% Redis cache hit rate reduces database load
- Reliable:** Multi-worker architecture with automatic failover
- Secure:** Industry-standard encryption and authentication
- Maintainable:** Clean code architecture for easy updates
- Cross-Platform:** Single codebase for iOS and Android

### 5.3 Production Performance Metrics

**Infrastructure:** - **Backend:** 12 worker processes (FastAPI + Uvicorn) - **Database:** PostgreSQL 14 (300 max connections, 3GB shared buffers) - **Cache:** Redis 6.x with hiredis parser - **Background:** Separate worker for automated booking management

#### Benchmark Results:

Metric	Single Worker Production (12 Workers)		Improvement
Requests/Second	515 RPS	1,666+ RPS	3.2x
Avg Response Time	1-2ms	<1ms	2x faster
Cache Hit Rate	94%	95%	Optimized
Concurrent Users	~500	1,500-2,500	4x capacity

**Key Features:** - Auto-checkout expired bookings (every 60 seconds) - Auto-start bookings at scheduled time - Real-time monitoring dashboard (`./monitor.sh`) - Comprehensive load testing suite (`./load_test.sh`) - Systemd service integration for production - Row-level locking prevents double-booking - Connection pooling optimized for scale

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## 6. Development Cost Analysis

### 6.1 Market Rate Comparison

The following represents typical market pricing for developing a complete parking marketplace platform like ParkingSpots:

#### Component Breakdown

Component
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	<b>Market Price</b>
<b>Backend API Development</b>	\$40,000
• FastAPI server with async architecture	
• PostgreSQL database design & implementation	
• JWT authentication & security	
• User management system	
• Parking spots CRUD & search (location-based)	
• Instant booking system	
• Stripe payment integration	
• Automated payout system	
• Reviews & ratings system	
• Real-time availability (WebSocket/Redis)	
• API documentation	
<b>Mobile App Development</b>	\$48,000
• React Native for iOS & Android	
• Full navigation architecture	
• Authentication & user management	
• Interactive map with search	
• Advanced filtering system	
• Instant booking flow	
• Stripe payment UI integration	
• User profiles & settings	
• Reviews & ratings interface	
• State management (Zustand)	
• Push notifications setup	
<b>UI/UX Design</b>	\$8,000
• User interface design for all screens	
• User experience optimization	
• Brand identity elements	
<b>Technical Documentation</b>	\$3,000
• Complete technical documentation	
• API reference documentation	
• Deployment guides	
<b>DevOps &amp; Deployment</b>	\$5,000
• Docker containerization	
• Database setup & optimization	
• CI/CD pipeline configuration	
• Environment setup	
<b>Quality Assurance</b>	\$8,000
• Comprehensive testing (unit, integration)	
• Bug fixes & optimization	
• Cross-platform testing	
• Performance optimization	

## 6.2 Total Market Value

<b>Category</b>	<b>Cost</b>
Backend API Development	\$40,000
Mobile App Development	\$48,000

UI/UX Design	\$8,000
Technical Documentation	\$3,000
DevOps & Deployment	\$5,000
Quality Assurance	\$8,000
<b>Total Market Value</b>	<b>\$118,000</b>

## 6.3 Your Investment Options

Choose the payment structure that best fits your business model:

### Option 1: Balanced Partnership

- **Upfront Fee:** €20,000
- **Revenue Share:** 20% ongoing
- **Your Savings:** €98,000 (83% vs market)
- **Best For:** Balanced risk/reward with moderate upfront investment

### Option 2: Lower Initial Investment

- **Upfront Fee:** €15,000
- **Revenue Share:** 25% ongoing
- **Your Savings:** €103,000 (87% vs market)
- **Best For:** Minimizing initial capital while sharing more growth upside

### Option 3: Higher Upfront, Lower Share

- **Upfront Fee:** €25,000
- **Revenue Share:** 15% ongoing
- **Your Savings:** €93,000 (79% vs market)
- **Best For:** Maximizing long-term profitability with higher initial investment

**Note:** All options include the complete platform with identical features and quality. The significantly reduced development fee is offset by the revenue sharing agreement, creating a win-win partnership where both parties benefit from the platform's success.

## 7. Investment & Payment Terms

### 7.1 Fee Structure Options

Select one of the following investment structures:

#### Option 1: €20,000 + 20% Revenue Share

##### A. Development Fee: €20,000

Milestone	Percentage	Amount	Due
Project Kickoff	30%	€6,000	Upon signing (February 2026)
Backend Completion	30%	€6,000	End of March 2026
Mobile App Completion	30%	€6,000	End of May 2026
Final Delivery	10%	€2,000	June 2026
<b>Total</b>	<b>100%</b>	<b>€20,000</b>	

## B. Revenue Share: 20% of Net Platform Revenue

### Option 2: €15,000 + 25% Revenue Share

#### A. Development Fee: €15,000

Milestone	Percentage	Amount	Due
Project Kickoff	30%	€4,500	Upon signing (February 2026)
Backend Completion	30%	€4,500	End of March 2026
Mobile App Completion	30%	€4,500	End of May 2026
Final Delivery	10%	€1,500	June 2026
<b>Total</b>	<b>100%</b>	<b>€15,000</b>	

#### B. Revenue Share: 25% of Net Platform Revenue

### Option 3: €25,000 + 15% Revenue Share

#### A. Development Fee: €25,000

Milestone	Percentage	Amount	Due
Project Kickoff	30%	€7,500	Upon signing (February 2026)
Backend Completion	30%	€7,500	End of March 2026
Mobile App Completion	30%	€7,500	End of May 2026
Final Delivery	10%	€2,500	June 2026
<b>Total</b>	<b>100%</b>	<b>€25,000</b>	

#### B. Revenue Share: 15% of Net Platform Revenue

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**Definition of Net Platform Revenue** (applies to all options): - Total booking revenue collected through the platform - MINUS payment processor fees (typically 2.9% + \$0.30) - MINUS refunds issued - MINUS chargebacks

#### Revenue Share Comparison Examples:

Monthly Gross Revenue	Net Revenue	Option 1 (20%)	Option 2 (25%)	Option 3 (15%)
€10,000	€9,700	€1,940	€2,425	€1,455
€50,000	€48,500	€9,700	€12,125	€7,275
€100,000	€97,000	€19,400	€24,250	€14,550
€500,000	€485,000	€97,000	€121,250	€72,750

## 7.2 Revenue Share Terms

- Reporting Period:** Monthly, ending on the last day of each calendar month
- Payment Due:** Within 15 days of month end
- Reporting:** Client provides monthly revenue report with transaction details
- Audit Rights:** Developer may audit records once per year with 30 days notice
- Minimum Term:** Revenue share applies for 5 years from launch date
- Buyout Option:** Client may terminate revenue share with a one-time payment equal to 24 months of average revenue share (based on trailing 12 months)

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## 8. Project Timeline

**Project Start:** February 2026

**Final Delivery:** June 2026

**Total Duration:** 16 weeks

## 8.1 Development Schedule

Weeks 1-4 (February 2026): Backend Foundation & Development

- └── Environment configuration
- └── Database schema implementation
- └── Core authentication system
- └── User management API
- └── Parking spots CRUD API
- └── Search & filtering system
- └── Booking system implementation
- └── Payment integration (Stripe)

Weeks 5-8 (March 2026): Backend Completion & Mobile Setup

- └── Automated payout system
- └── Reviews & ratings system
- └── API documentation & testing
- └── Mobile project setup
- └── Navigation architecture
- └── Authentication screens

Weeks 9-12 (April-May 2026): Mobile App Development

- └── Home screen with interactive map
- └── Search & listing screens
- └── Booking flow implementation
- └── Payment integration
- └── User profile & settings
- └── Reviews system UI

Weeks 13-16 (May-June 2026): Testing, Refinement & Delivery

- └── Integration testing (backend + mobile)
- └── Cross-platform testing (iOS & Android)
- └── Bug fixes & optimization
- └── Performance tuning
- └── Documentation finalization
- └── Deployment setup
- └── Final delivery & handoff

## 8.2 Milestone Schedule

Milestone	Timeline	Deliverable
<b>M1: Kickoff</b>	February 2026	Project start, requirements confirmed
<b>M2: Backend Complete</b>	End of March 2026	All backend APIs functional & tested
<b>M3: Mobile Alpha</b>	End of April 2026	Core mobile screens complete
<b>M4: Mobile Complete</b>	End of May 2026	All mobile features implemented
<b>M5: Final Delivery</b>	June 2026	Fully tested, documented, delivered

## 9. Ongoing Costs & Maintenance

### 9.1 Third-Party Service Costs (Client Responsibility)

Service	Provider	Estimated Monthly Cost
<b>Cloud Hosting</b>	AWS/GCP/DigitalOcean	\$50 - \$500*
<b>Database</b>	Managed PostgreSQL	€15 - €100*

Service	Description	Cost Range
<b>Redis Cache</b>	Managed Redis	\$15 - \$50*
<b>Payment Processing</b>	Stripe	2.9% + \$0.30 per transaction
<b>Maps API</b>	Google Maps	\$200/month (after free tier)
<b>Email Service</b>	SendGrid/AWS SES	\$15 - \$50*
<b>Push Notifications</b>	Firebase	Free tier usually sufficient
<b>SSL Certificate</b>	Let's Encrypt	Free
<b>Domain Name</b>	Any registrar	\$12 - \$50/year

\*Costs scale with usage

## 9.2 Estimated Monthly Operating Costs

Stage	Users	Bookings/Month	Est. Hosting	Est. APIs	Total
<b>Launch</b>	< 1,000	< 500	\$100	\$50	~\$150/mo
<b>Growth</b>	1,000 - 10,000	500 - 5,000	\$300	\$200	~\$500/mo
<b>Scale</b>	10,000 - 100,000	5,000 - 50,000	\$1,000	\$500	~\$1,500/mo
<b>Enterprise</b>	100,000+	50,000+	\$3,000+	\$1,000+	~\$4,000+/mo

## 9.3 Optional Maintenance Package

Package	Monthly Fee	Includes
<b>Basic</b>	\$500/mo	Bug fixes, security patches
<b>Standard</b>	\$1,500/mo	Basic + minor feature updates, hosting management
<b>Premium</b>	\$3,500/mo	Standard + priority support, major updates, 24/7 monitoring

## 10. Terms & Conditions

### 10.1 Intellectual Property

- Source Code Ownership:** Upon full payment of the development fee, Client owns 100% of the delivered source code.
- Revenue Share Rights:** The revenue share agreement grants Developer a financial interest in platform revenue, not ownership of the code or business.
- Third-Party Components:** Open-source libraries and frameworks remain under their respective licenses.
- Residual Rights:** Developer retains no rights to use Client's specific implementation, branding, or user data.

### 10.2 Warranties

- Functional Warranty:** Developer warrants the software will function as described in this proposal for 90 days post-delivery.
- Bug Fixes:** Developer will fix any bugs reported within the warranty period at

no additional cost.

3. **Exclusions:** Warranty does not cover issues caused by:

- Third-party service failures
- Client modifications to source code
- Hosting environment issues
- Misuse of the platform

### **10.3 Confidentiality**

Both parties agree to keep confidential: - Business strategies and plans - Technical implementations - Financial information - User data and metrics

### **10.4 Limitation of Liability**

Developer's total liability shall not exceed the development fee paid (per selected option: €15,000, €20,000, or €25,000). Developer is not liable for: - Lost profits or revenue - Business interruption - Third-party claims - Indirect or consequential damages

### **10.5 Revenue Share Compliance**

1. Client agrees to maintain accurate financial records
2. Client will provide monthly revenue reports by the 5th of each month
3. Late payments incur 1.5% monthly interest
4. 3 consecutive missed payments constitute breach

### **10.6 Termination**

**By Client:** - May terminate development with 14 days notice - Fees paid for completed milestones are non-refundable - Revenue share continues on any delivered components used

**By Developer:** - May terminate for non-payment (30 days overdue) - Will deliver all completed work upon termination

**Revenue Share Termination:** - 5-year minimum term - After 5 years: Client may terminate with 90 days notice - Buyout option available (see Section 7.2)

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## **Acceptance**

By signing below, both parties agree to the terms outlined in this proposal.

### **Client**

**Company Name:** \_\_\_\_\_

**Authorized Signatory:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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### **Developer**

**Company Name:** \_\_\_\_\_

**Authorized Signatory:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Signature:** \_\_\_\_\_

**Date:** \_\_\_\_\_

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## **Appendix A: Feature Specifications**

*Detailed technical specifications available in TECHNICAL\_DOCUMENTATION.md*

## **Appendix B: API Endpoint List**

<b>Module</b>	<b>Endpoints</b>	<b>Description</b>
Authentication	4	Register, login, refresh, password reset
Users	5	Profile CRUD, settings
Parking Spots	8	Listings CRUD, search, availability
Bookings	8	Booking CRUD, pricing, status
Reviews	7	Reviews CRUD, ratings
Payments	8	Payments, refunds, payouts
<b>Total</b>	<b>40</b>	Complete REST API

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**Questions?** Contact [Your Email] or [Your Phone]

*This document constitutes a binding agreement upon signature by both parties.*