

Feasibility & Timeline Report PetSitter Connect MVP

October 15, 2025

1. Executive Summary

This report evaluates the feasibility and development timeline for the MVP version of the PetSitter Connect platform. The project aims to connect pet owners with trusted local pet sitters through a secure, scalable, and user-friendly web application. The MVP scope includes core features: user registration, sitter search, profile management, booking, messaging, reviews, and an admin dashboard. Based on the current specification, the project is technically and operationally feasible within an estimated timeline of 18–22 weeks, assuming a dedicated development team.

2. Technical Feasibility

The proposed architecture leverages modern, proven technologies including React/Next.js for the frontend, Supabase for backend services (PostgreSQL, Auth, and real-time messaging), and Vercel or Cloudflare Pages for hosting. This stack is well-suited for rapid MVP development, offers strong scalability, and ensures robust performance. The functional requirements, such as search, booking, and messaging, are all achievable using existing frameworks and APIs without the need for extensive custom infrastructure.

3. Operational Feasibility

Operationally, the project requires a multidisciplinary team with expertise in frontend and backend development, UX/UI design, QA, and project management. All roles are standard for web application projects of this complexity, and no unusual or hard-to-source skills are needed. The estimated project duration assumes a small to medium-sized team (4–6 people) working full-time.

4. Risk Assessment & Mitigation

The main risks include potential scope creep beyond the MVP definition, integration complexity with third-party services (e.g., email notifications), and maintaining performance with increasing user load. These risks can be mitigated by strict scope control, early technical validation, and staged load testing. Supabase's managed backend reduces operational risks, while modern frontend tooling shortens development time and simplifies maintenance.

5. Detailed Timeline by Phase

The following timeline is based on standard agile development practices, estimated team velocity, and typical delivery times for similar MVP web platforms.

Phase	Duration (weeks)	Description
Business Analysis & Specification	2–3	Finalize user stories, requirements, and technical architecture.
UX/UI Wireframes & Design	3–4	Design key screens and establish UI patterns.
Backend Setup & Authentication	2	Configure Supabase, database, and user authentication.
Core Functionalities	5–6	Develop search, sitter profiles, and booking workflows.
Messaging & Reviews	3–4	Implement real-time chat and ratings system.
Admin Dashboard	2	Create admin tools for moderation and analytics.
Testing & QA	2	Conduct functional, integration, and performance testing.
Deployment & Documentation	1	Deploy to production and deliver documentation.

****Total Estimated Time: 18–22 weeks****

6. Recommended Team Composition

A dedicated, balanced team is essential to deliver the MVP within the estimated timeframe. Recommended team structure:

Role	Quantity	Responsibility
Frontend Developer	2	Build responsive UI, implement React components, integrate APIs.
Backend Developer	1	Develop backend logic, database models, authentication, and APIs.
UX/UI Designer	1	Create wireframes, prototypes, and visual design consistent with brand.
QA Engineer	1	Design and execute test plans, ensure quality and performance.
Project Manager	1	Coordinate tasks, manage timelines, and maintain client communication.

7. Conclusions & Recommendations

The PetSitter Connect MVP is technically and operationally feasible within a 4.5–5.5 month timeline with a standard-sized agile development team. The chosen technology stack minimizes risk and accelerates development, while the well-defined MVP scope ensures focus on core value delivery. Strict scope management, iterative delivery, and early stakeholder feedback are recommended to ensure successful and timely launch.