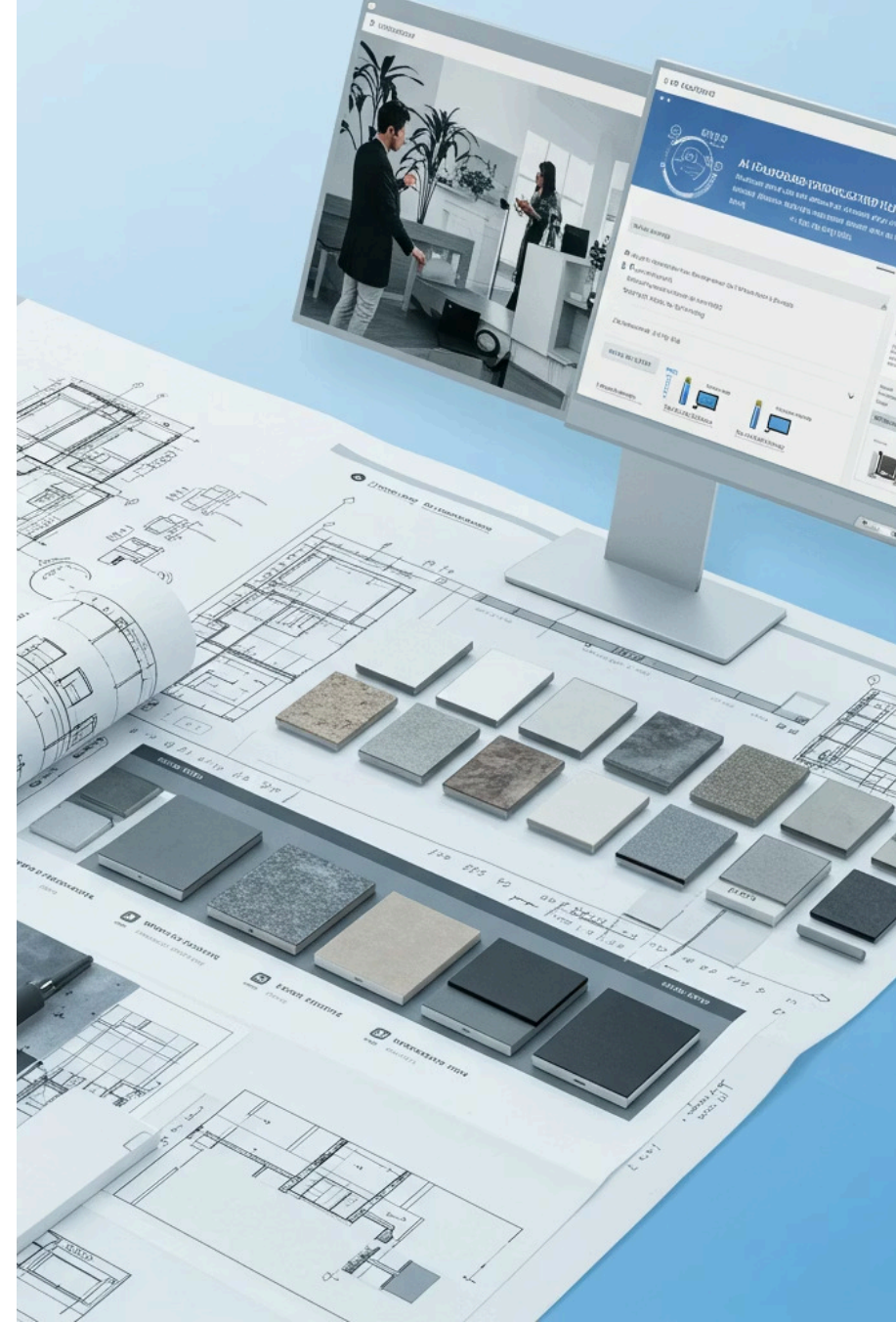


# MVP Development Proposal

A comprehensive plan for developing an AI-powered FF&E procurement platform over 6 months



# Introduction

This document outlines the complete proposal, cost structure, and terms for the development of the Minimum Viable Product (MVP) of Casaire – an AI-powered FF&E procurement platform.

The engagement includes product planning, AI development, full-stack engineering, and cloud-ready deployment over an estimated duration of 5–6 months.



# Scope of Work



## **Client Panel**

Dashboard, AutoCAD/PDF Upload, BOQ Viewer, Tender Management



## **Supplier Panel**

Tender Listings, Quote Submission, Status Updates



## **Admin Panel**

User and Tender Management, Logs, Catalogs



## **AI/ML Modules**

CAD & PDF Parsing, BOQ Generation, NLP Categorization



## **DevOps & Infrastructure**

CI/CD Pipeline, Secure Deployment, Version Control

# Team & Resource Plan







# Team Strength & Collaborative Support

80

## Total IT Team

Anvis Digital's full engineering capacity

18-22

## Casaire Allocation

Dedicated resources on full-time and shared basis

Our flexible resourcing model provides **dynamic scaling** and **reduces delivery risk** through multiple layers of support:

- Internal peer reviews and code quality checks
- Backup staffing for critical path activities
- Architectural advisory from senior engineers



## AI/ML Support

R&D partner network for specialized algorithms



## DevOps Pool

Shared infrastructure expertise

# Product Manager



## Quantity

1



## Duration

6 months



## Purpose

Own the product vision, define scope, and align development with business goals.

## Key Responsibilities

- Define MVP roadmap and feature priorities
- Act as the bridge between client, tech, and design
- Make product decisions based on business/user goals

**Why Needed:** Ensures that the product solves real problems and maintains strategic focus.

# Project Manager



## Quantity

1



## Duration

6 months



## Purpose

Oversee the delivery process and ensure timely completion.

## Key Responsibilities

- Sprint planning, resource scheduling, and progress tracking
- Risk management and conflict resolution
- Daily team syncs and status updates for stakeholders

**Why Needed:** Maintains discipline across teams and keeps the project on time and within scope.

# UI/UX Designer



## Quantity

1



## Duration

6 months



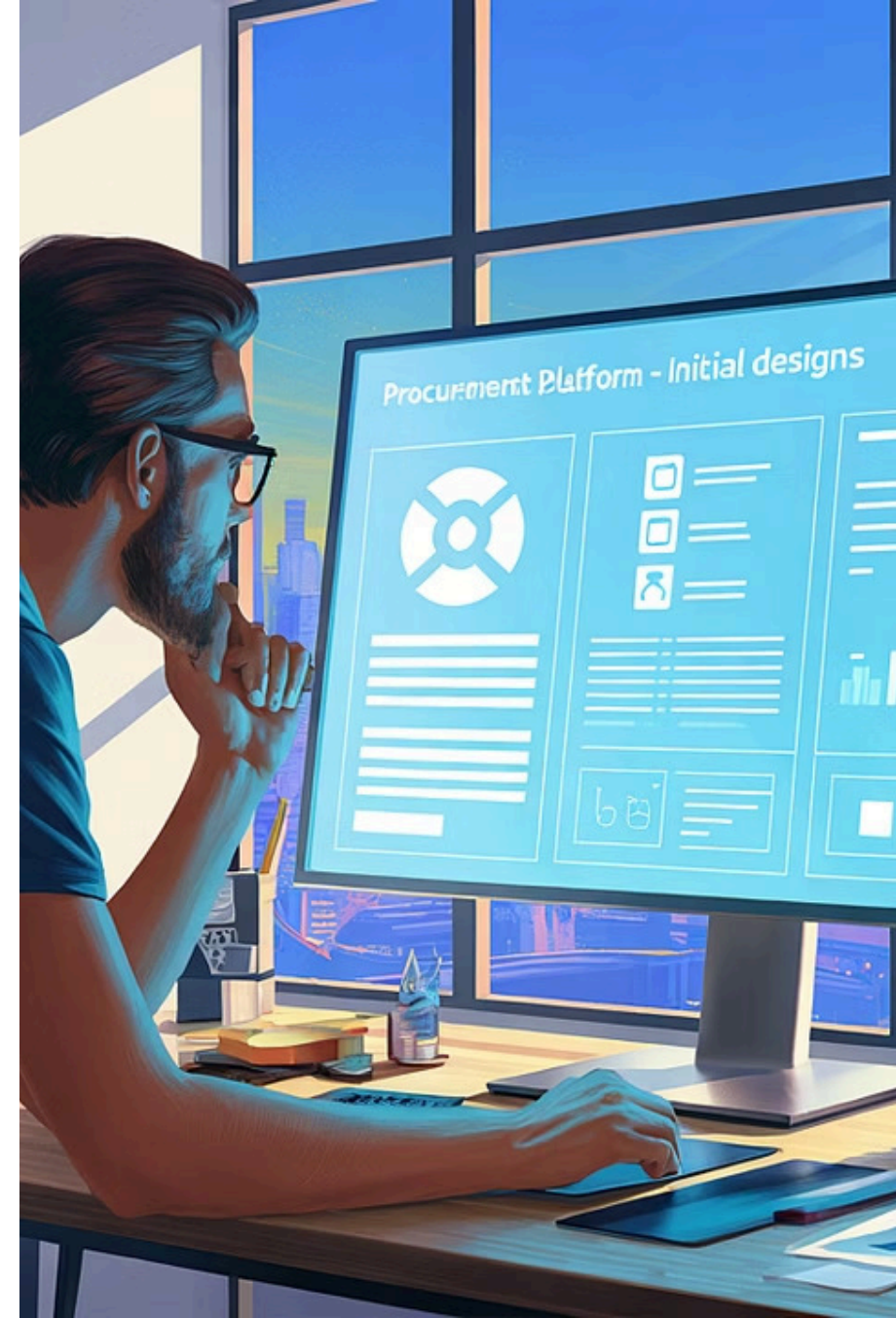
## Purpose

Design the user journey and app interface across roles.

## Key Responsibilities

- Create wireframes, flows, and layout for all modules
- Ensure intuitive design and usability across devices
- Work with developers to ensure design-to-code consistency

**Why Needed:** A good design reduces user confusion, boosts adoption, and improves efficiency.





# Frontend Developer



## Quantity

2



## Duration

6 months



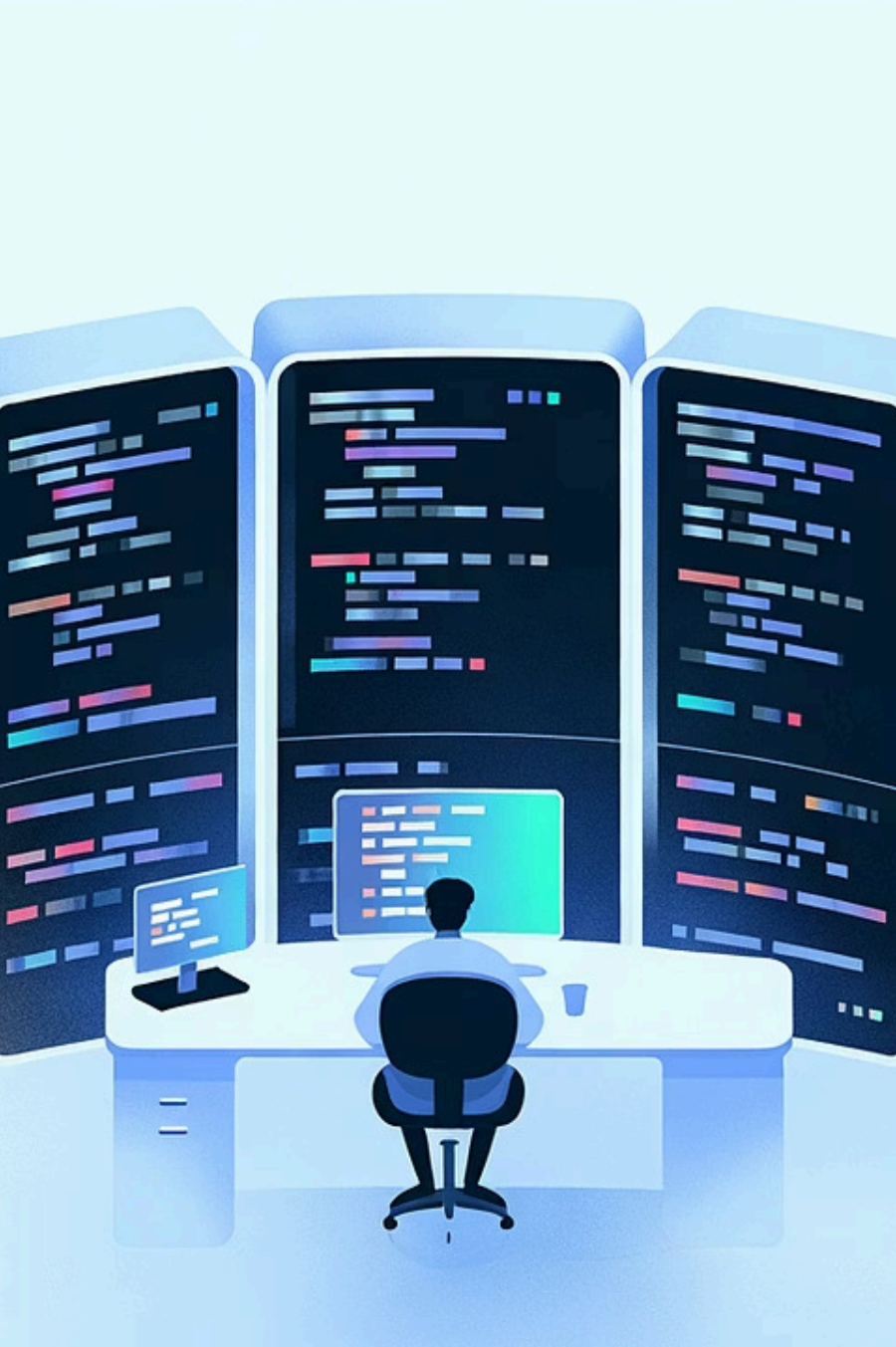
## Purpose

Build user-facing features and interfaces.

## Key Responsibilities

- Develop dashboards, upload modules, tables, and modals
- Ensure responsive design using React.js and Tailwind
- Integrate APIs for data display and interaction

**Why Needed:** Transforms UI designs into functional, usable web interfaces.



# Backend Developer



## Quantity

2



## Duration

6 months



## Purpose

Build the server-side logic and data handling workflows.

## Key Responsibilities

- Develop APIs for BOQ, tenders, users, and submissions
- Implement business rules and security protocols
- Manage database structure and integrations

**Why Needed:** Powers the platform's core logic and connects frontend with backend processes.

# DevOps Engineer



## Quantity

1



## Duration

6 months



## Purpose

Set up infrastructure, deployment pipelines, and monitoring.

## Key Responsibilities

- Set up CI/CD using GitHub Actions or similar tools
- Configure AWS/GCP servers and cloud storage
- Automate deployments and backups

**Why Needed:** Ensures a stable, scalable, and secure production environment.

# Deployment Architect



## Quantity

1



## Duration

6 months



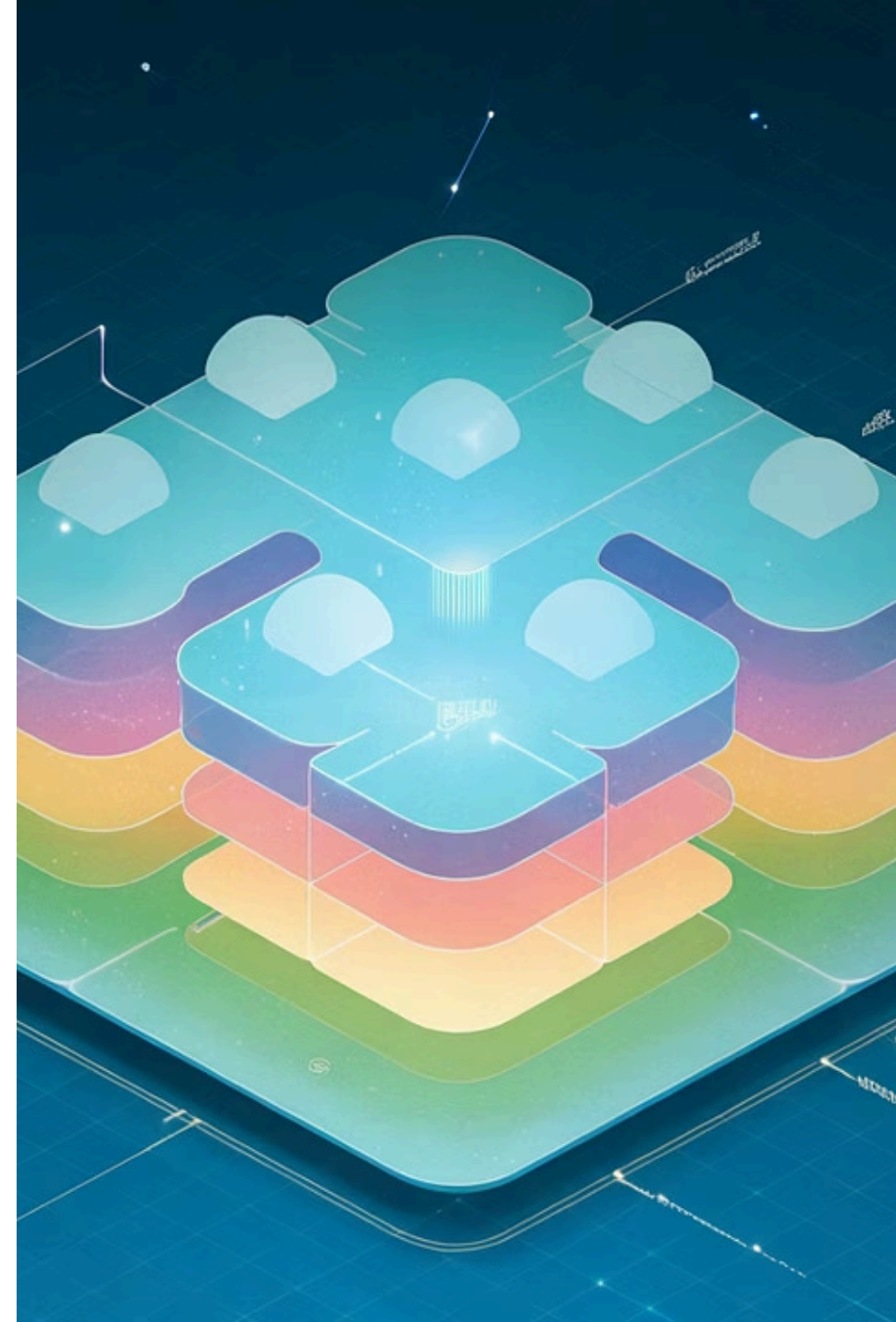
## Purpose

Design and document cloud infrastructure and its scalability.

## Key Responsibilities

- Plan multi-environment deployment strategies
- Define security groups, load balancers, auto-scaling
- Optimize cost and availability

**Why Needed:** Ensures the system scales efficiently without compromising security.



# QA Engineer



## Quantity

1



## Duration

6 months



## Purpose

Ensure software quality through automated and functional testing.

## Key Responsibilities

- Write test cases for all modules
- Perform regression, integration, and smoke testing
- Collaborate on bug tracking and fixes

**Why Needed:** Reduces bugs, improves stability, and ensures a smoother user experience.



# Tester



## Quantity

1



## Duration

6 months



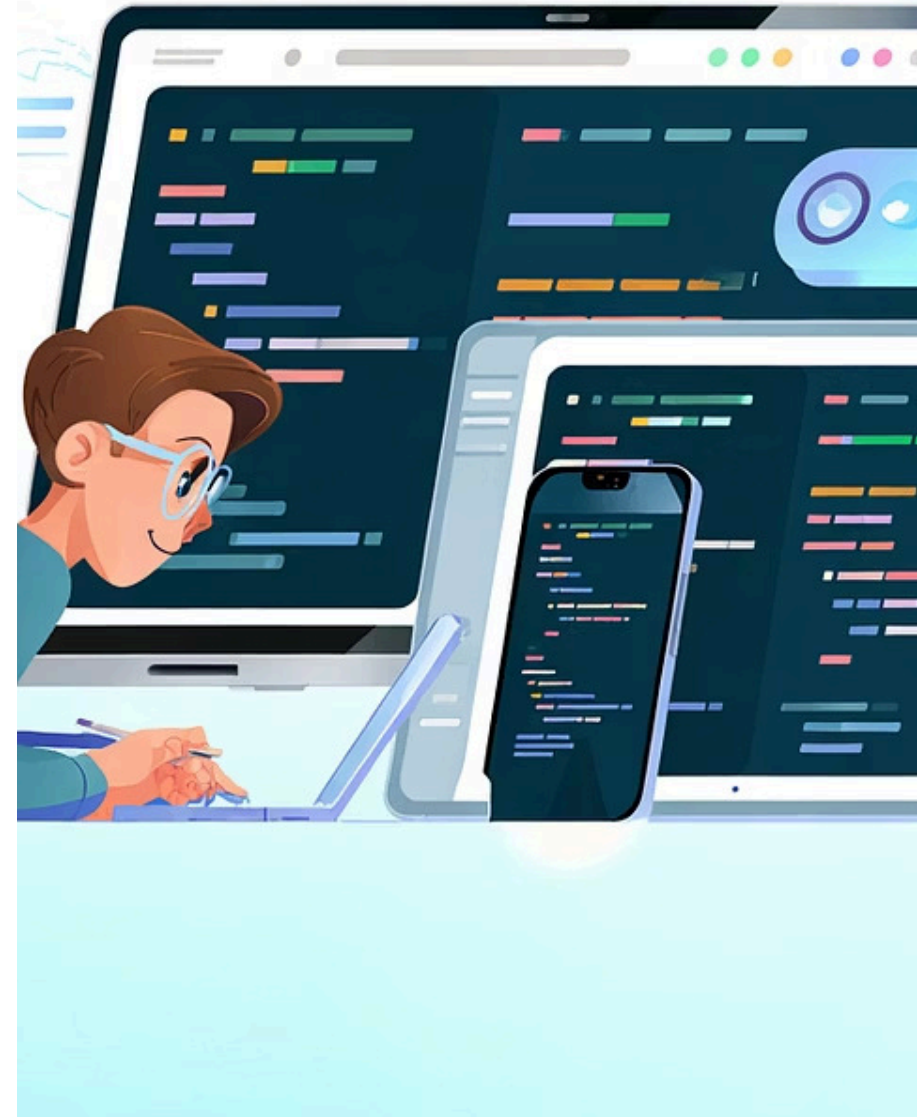
## Purpose

Validate user workflows and scenarios through manual testing.

## Key Responsibilities

- Conduct exploratory testing on user flows
- Report UI and functional inconsistencies
- Assist in UAT sessions

**Why Needed:** Captures edge cases and real-world usability issues.



# CAD Consultant



## Quantity

1



## Duration

6 months



## Purpose

Integrate AutoCAD processing and visualization modules.

## Key Responsibilities

- Integrate Autodesk Forge or Xeokit viewer
- Help map CAD data to BOQ logic
- Guide the team on CAD-based standards

**Why Needed:** Connects technical file handling with construction/design workflows.



# AI Engineer



## Quantity

1



## Duration

6 months



## Purpose

Design the smart logic layer that uses rules to guide AI decisions.

## Key Responsibilities

- Create logic-based decision trees for BOQ mapping
- Collaborate with data and ML engineers
- Ensure explainability of AI decisions

**Why Needed:** Acts as the "rules brain" to support or enhance ML predictions.

# ML Engineer



## Quantity

1



## Duration

6 months



## Purpose

Build the smart BOQ extraction and PDF parsing modules.

## Key Responsibilities

- Use OpenCV, Tesseract, and NLP tools to process CAD/PDF files
- Auto-categorize and format BOQ data from unstructured content
- Set up modular AI pipelines for future scalability

**Why Needed:** Brings the AI advantage that automates what would otherwise be manual and error-prone.



# Data Scientist



## Quantity

1



## Duration

6 months



## Purpose

Analyze AI-generated data and ensure output is useful and valid.

## Key Responsibilities

- Validate classification, pricing, and product-matching accuracy
- Clean and structure data for visual rendering and reporting
- Help tune AI logic based on observed patterns

**Why Needed:** Supports the intelligence layer by turning AI results into usable insights.



# Solution Architect



## Quantity

1



## Duration

6 months



## Purpose

Design the technical architecture of the system.

## Key Responsibilities

- Define module interactions, API layers, data flow
- Plan for scalability, performance, and flexibility
- Create system documentation and design guidelines

**Why Needed:** Aligns all components into a future-proof, maintainable architecture.



# Domain Expert



## Quantity

1



## Duration

6 months



## Purpose

Provide real-world insights into procurement and design processes.

## Key Responsibilities

- Guide the BOQ and tender logic based on industry practices
- Help in vendor-side workflow definition
- Review UI/UX for functional validity

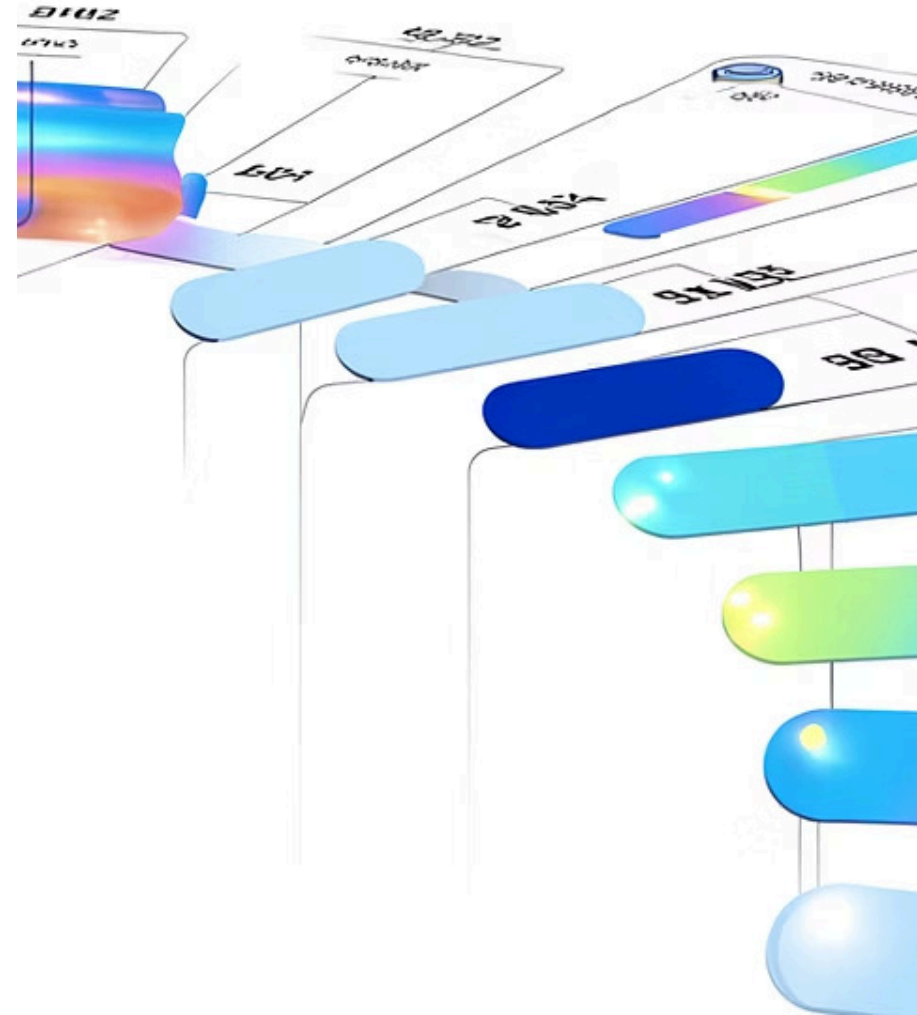
**Why Needed:** Bridges the gap between technology and real-world usage.

# Project Timeline Overview

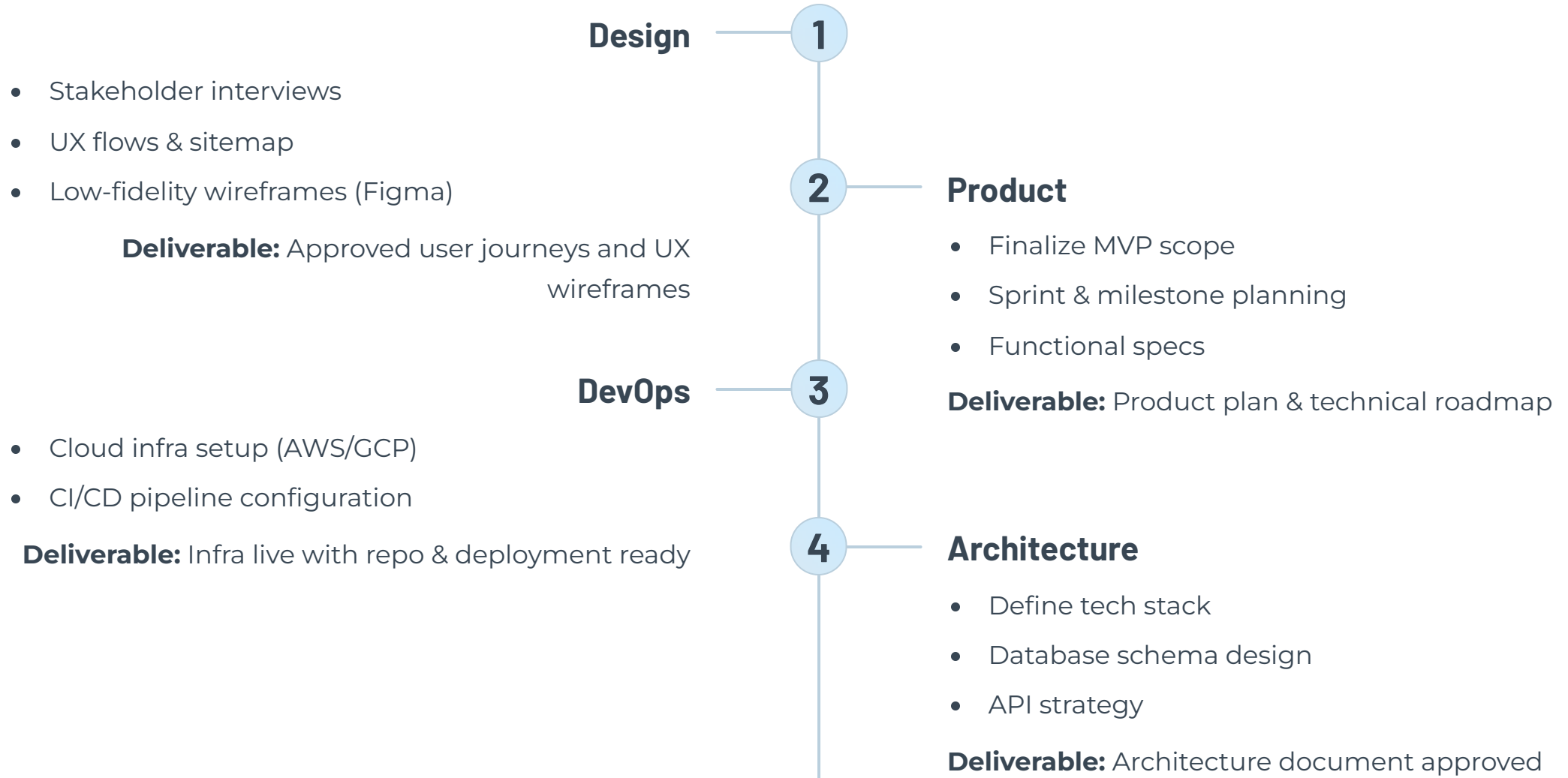
Here is a detailed timeline for the Casaire MVP project, broken down by month, sprint, and workstreams (Design, Frontend, Backend, AI/ML, QA, DevOps). Each task is aligned with deliverables and outcomes:



Casaire MVP – Detailed Project Timeline (9 Months)

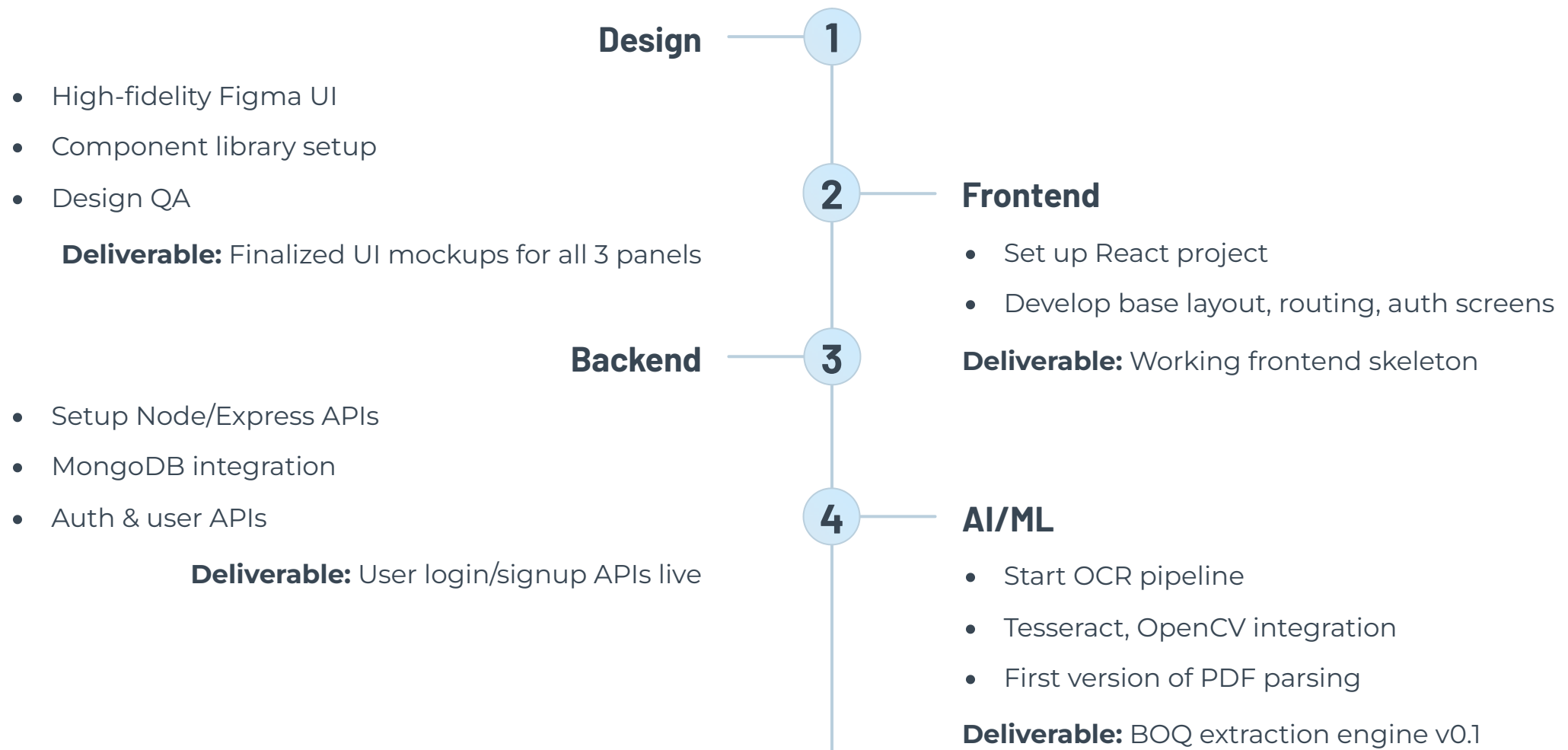


# Month 1 – Discovery & Setup



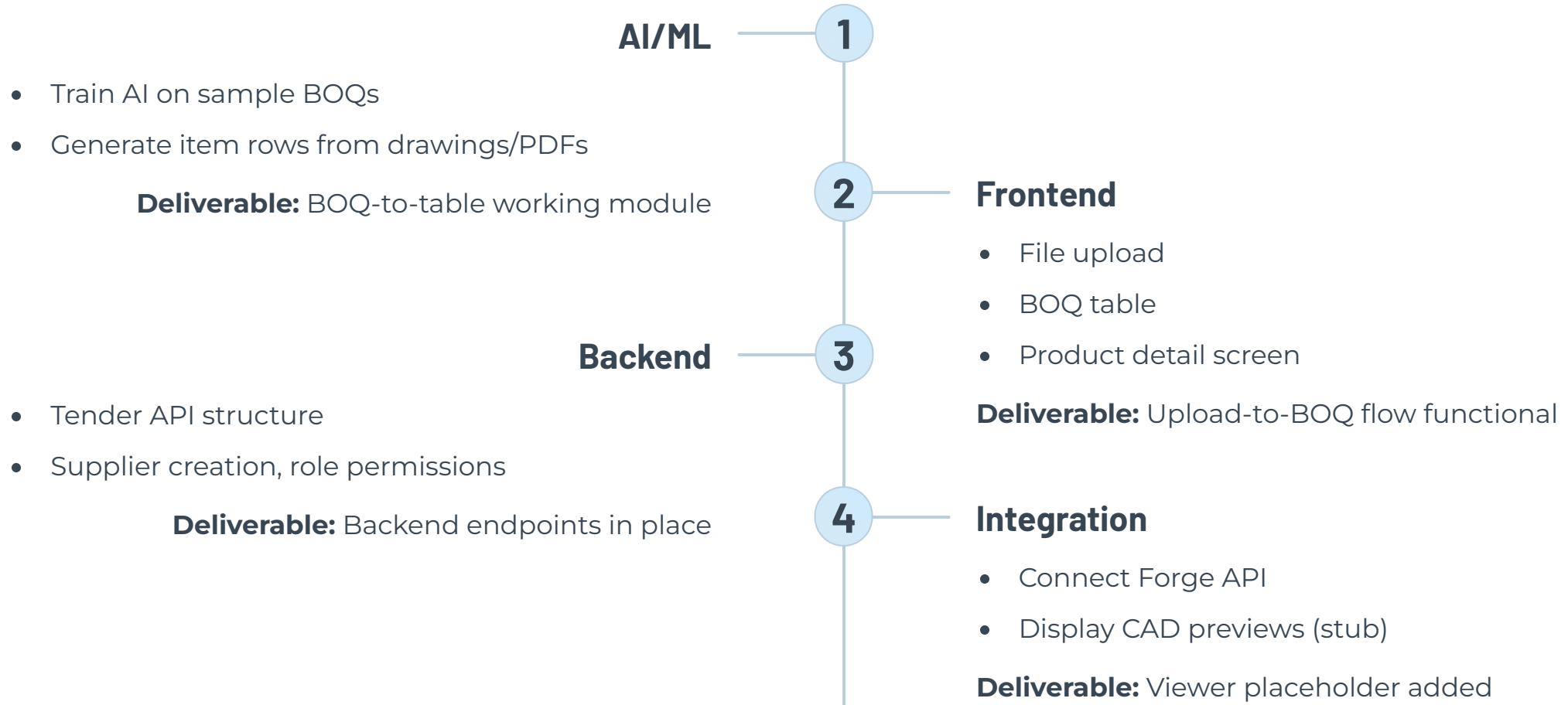


## Month 2 – Design & Core Dev

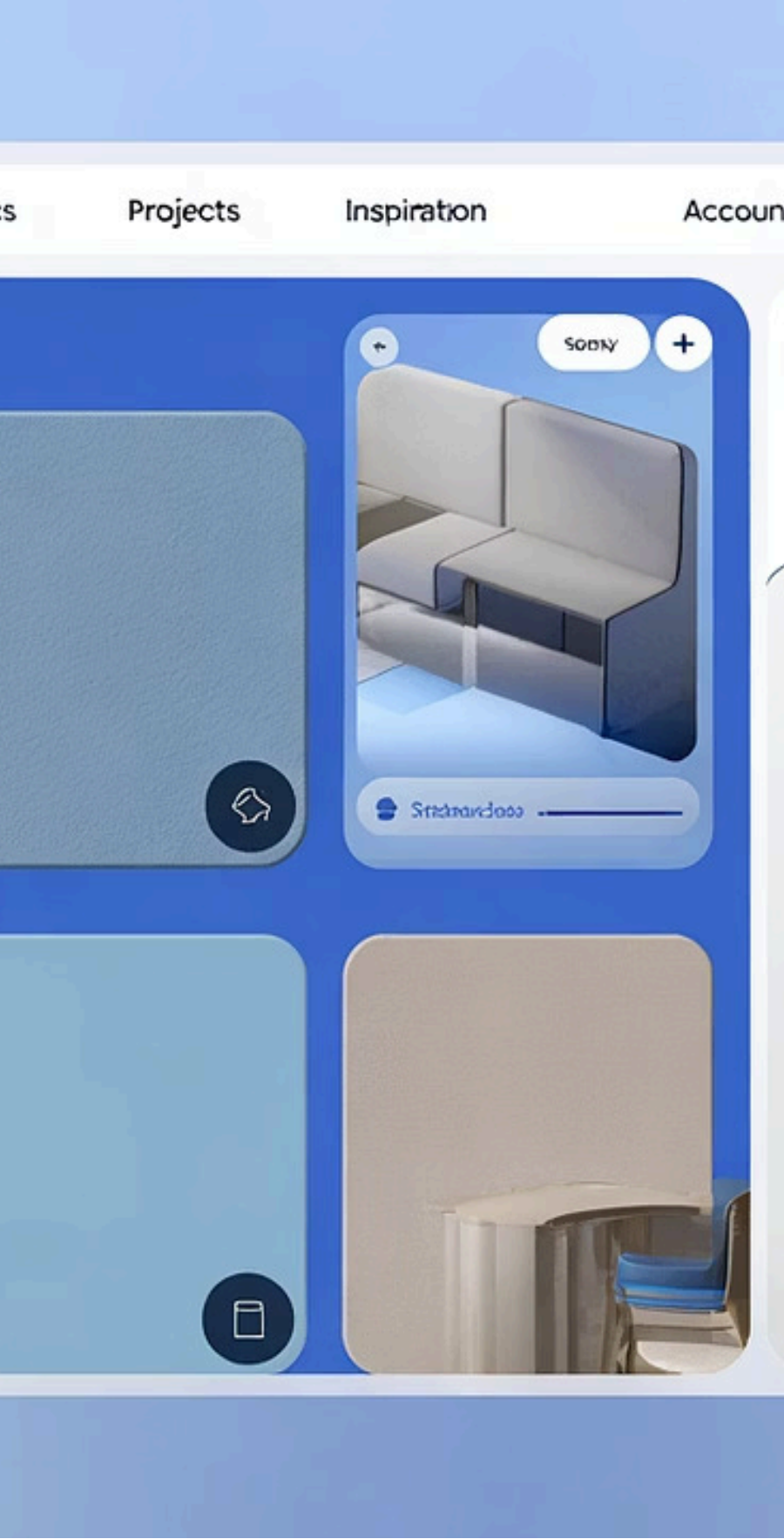




# Month 3 – BOQ Engine + Supplier Flow



✓ **Go/No-Go:** Review AI BOQ output quality + approve sprint



# Month 4 – Admin + Mood Board

1

## Admin Panel

- Role management
- Admin CRUD for tenders/suppliers

**Deliverable:** Admin dashboard functional

2

## Mood Board

- Design mood board UI
- Map items to styles & colors
- Previews with layout thumbnails

**Deliverable:** AI mood board suggestions (v0.1)

3

## Frontend

- Modals, form validation, alerts
- Table enhancements

**Deliverable:** Interactive UI behaviors

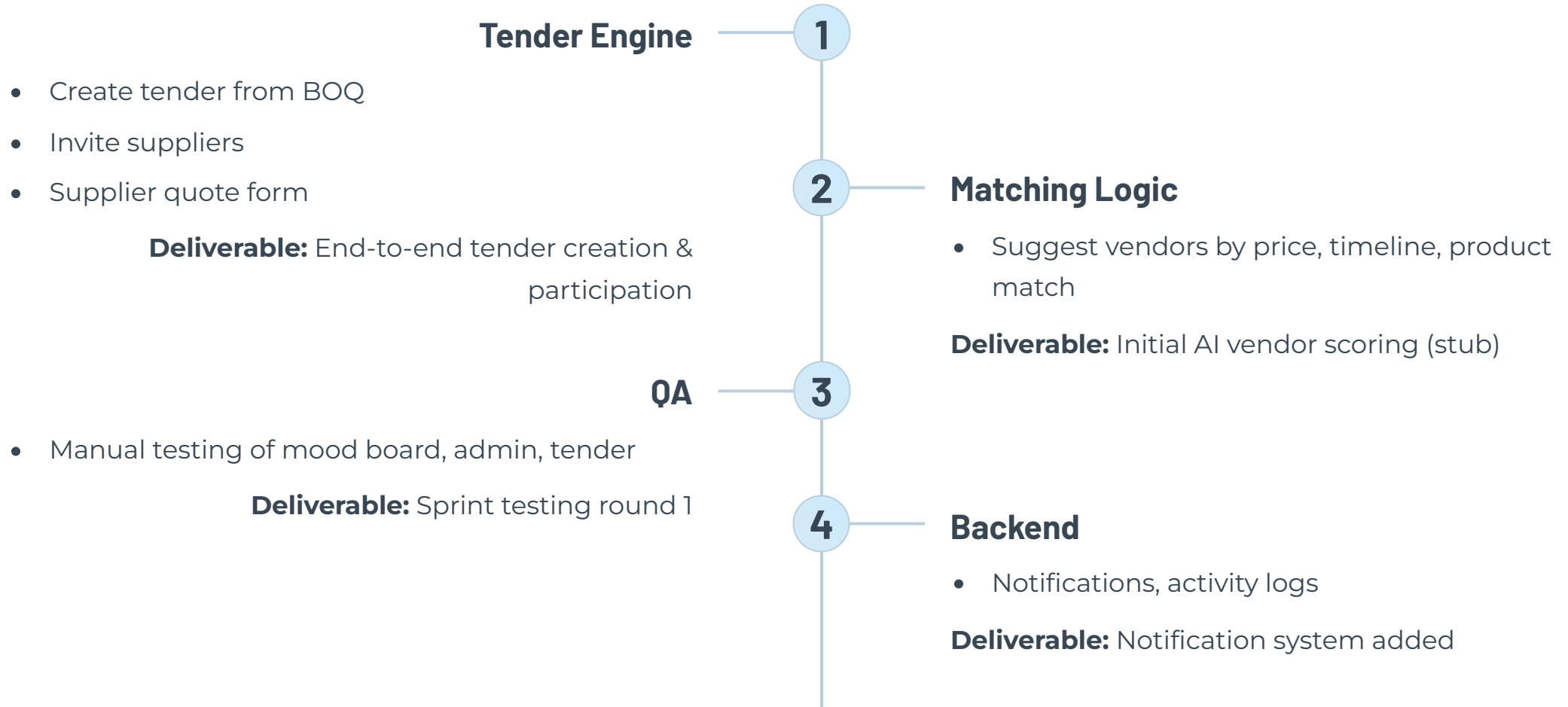
4

## Backend

- Save mood board templates
- Audit logs, admin tracking

**Deliverable:** Full admin feature parity

# Month 5 – Tender Flow Completion



# Month 6 – QA & UAT Prep

1

## QA

- Functional & regression testing
- Test case doc

**Deliverable:** Final QA round complete

2

## Frontend

- UI cleanup, responsiveness
- Mobile testing

**Deliverable:** Responsive UI v1

3

## DevOps

- Beta staging setup
- Crash/error logging

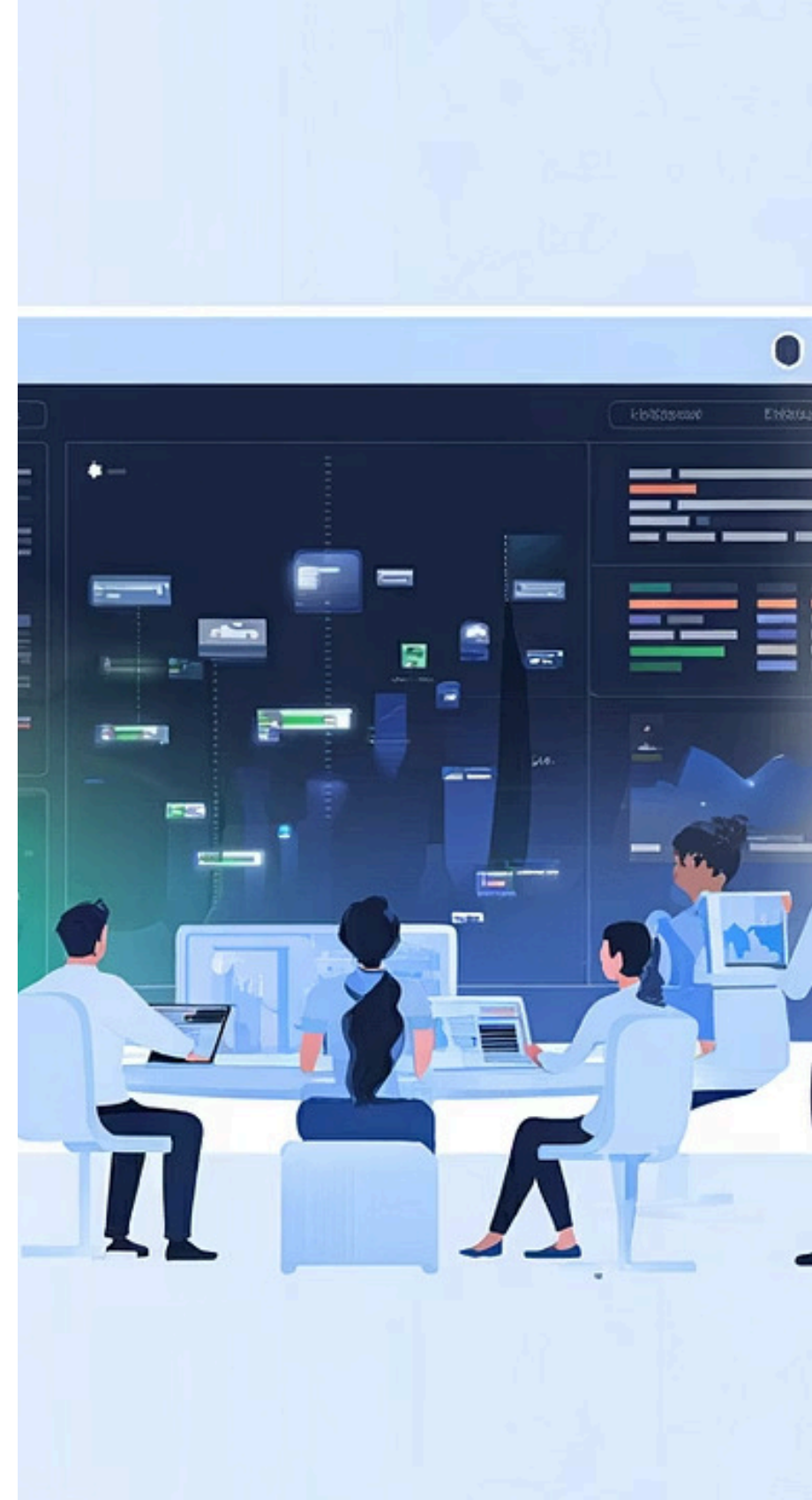
**Deliverable:** Beta server deployed

4

## AI/ML

- Output quality check
- Error mapping

**Deliverable:** Parser and categorizer v1.1



# Month 7 – Beta Launch

- Deploy to vendors
- Enable helpdesk/chat
- Feedback forms

**Deliverable:** Beta feedback from 5–10 testers

**Product**

1

2

**QA**

- Record errors
- Work with design team to fix user journey gaps

**Deliverable:** Beta test summary + hotfix tasks

**Support**

3

- Setup FAQs, onboarding guide

**Deliverable:** Basic support system ready





# Month 8 – Feedback Loop & Final Fixes

1

## QA + Design

- Address user-reported bugs
- UX fine-tuning
- Polish tables, graphs, preview cards

**Deliverable:** MVP-ready UX

2

## Product

- Gather insights from usage
- Prioritize Phase 2 roadmap

**Deliverable:** Feedback tracking board

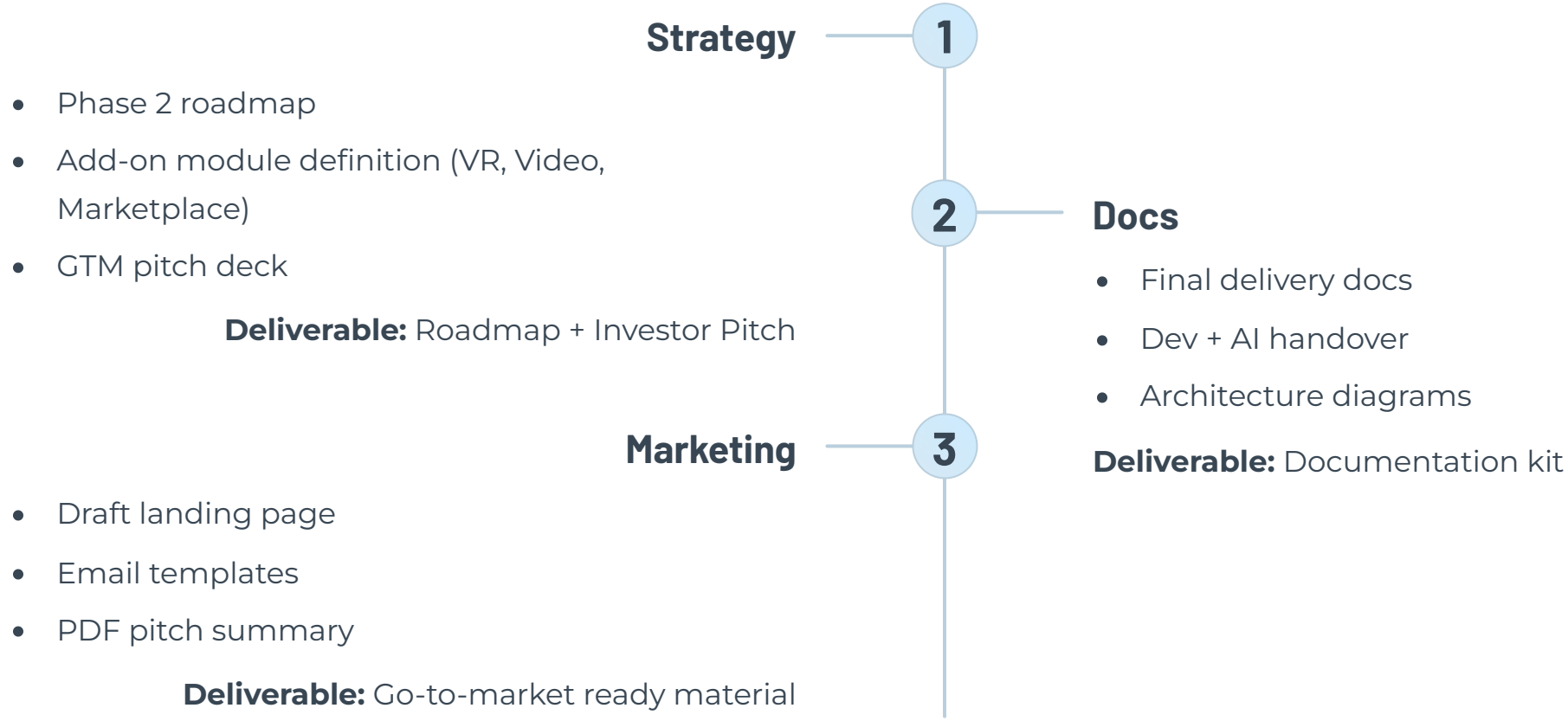
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## AI/ML

- Refine results using real test files

**Deliverable:** Improved accuracy

# Month 9 – Phase 2 Planning & GTM



# Post-MVP (Optional Phase 2 Features)



## 3D/VR Room Layout

Immersive preview of designed spaces with virtual reality capability



## Video Simulation

Generate walkthrough videos from mood boards and design specifications



## Voice-Assisted Tendering

Streamline procurement processes with voice command functionality



## Supplier Benchmarking

AI-powered comparison and rating system for supplier performance



## Budget Analysis

Procurement budget forecasting and optimization tools

# Thank You

We're excited to partner with you on your Casaire MVP journey

**9**

**Month Timeline**

Comprehensive  
development roadmap

**15+**

**Expert Team**

Dedicated specialists across  
disciplines