

3Quotes POC Development Quotation

Project Name: 3Quotes Proof of Concept (POC)

Objective: Rapid development of a functional prototype to demonstrate core value to stakeholders.

Timeline: 14 Days (2 Weeks)

Date: December 15, 2025

1. Executive Summary

This proposal outlines a condensed **14-day sprint** to build a functional "Show & Tell" version of the 3Quotes platform. Unlike the full MVP, this Phase focuses exclusively on the "Happy Path" user experience—allowing a user to land on the site, chat with the AI to define their needs, and immediately download a professional Bill of Quantities (BOQ) PDF.

Primary Goal: To provide a tangible, working application that the team can use to visualize the workflow and pitch the concept to investors or internal stakeholders.

2. Revised Technology Stack (Lightweight)

- **Frontend:** React with TypeScript (Retained for high-quality UI)
 - **Backend:** Python (FastAPI) or Node.js (Express)
 - **AI Engine:** OpenAI GPT-4o-mini (Direct Integration)
 - **Database:** SQLite or JSON Store
 - **PDF Engine:** Python WeasyPrint or PDFKit (For instant BOQ generation).
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3. Scope of Work & Deliverables

A. UI + Design: Landing & Categories

- **Landing Page:** High-impact visual design showcasing the value proposition
- **Service Category Grid:** Visual selection for the 13 service categories (e.g., Painting, Cleaning, Moving)
- **No Authentication Barrier:** Users can click a category and start immediately ("Try Before Signup" logic)

B. AI Chatbot Integration

- **Interactive Chat Interface:** A clean, WhatsApp-style chat UI built in React.
- **Contextual AI:** The bot will act as a domain expert (e.g., if "Painting" is selected, it asks about square footage and paint type).
- **Requirement Gathering:** The AI will ask 3-5 dynamic questions to understand the scope of work

C. BOQ Generation + PDF Export

- **Structured Data Extraction:** The system converts the chat conversation into a structured list of items (e.g., "20 Liters Paint," "3 Days Labor").
 - **Instant Quote Generation:** A "Generate Quote" button creates a professional PDF.
 - **Visual Output:** The PDF will include the 3Quotes branding, project summary, and an *estimated* price range (using dummy/market-average data for the demo).
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4. Exclusions (Deferred to MVP Phase)

To strictly meet the 14-day deadline, the following items from the original quotation are **removed**:

- **User/Vendor Registration & Login:**
 - **ERPNext Installation**
 - **Real Vendor Matching:** (We will simulate matches).
 - **SMS/Email Integration:** PDF download is sufficient
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5. Commercial

- **Timeline:** 14 Days
 - **Resource Allocation:** 1 Full-Stack Developer + 1 UI/UX Designer
 - **Deliverable:** A live web link (URL) + Source Code.
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