Project Plan

Alpha Solutions Inventory Management System
Track Better. Manage Faster. Grow Bigger

Project Title: Alpha Solutions – Cloud-Based Inventory Management System

Project Objective:

To build a responsive, cloud-based inventory management system for small and e-commerce businesses. It will offer real-time product tracking and streamlined category/product management. The app will include analytics for stock quantity, value, and profit to aid decision-making. Its goal is to reduce errors, improve visibility, and support scalable business growth.

1. Project Scope Statement

In Scope:

- Dashboard with real-time product summaries
- Product & Category Management modules
- User authentication and profile management
- Contact and support module
- Role-based access control
- Admin features (add/delete/view products/categories)
- Responsive web-based design

Out of Scope:

- Mobile app version
- Offline functionality
- Integration with external accounting or e-commerce platforms (e.g., Shopify)
- Voice assistant or chatbot support

2. Deliverables

- Requirement Specification Document
- UI/UX Design Mockups and Wireframes
- Fully Functional Web App
- Cloud Hosting & Domain Setup
- QA Testing Report

- Deployment Guide and User Manual

3. Work Breakdown Structure (WBS)

1.0 Project Initiation

- 1.1 Define project goals
- 1.2 Identify stakeholders
- 1.3 Assign team roles

2.0 Requirement Gathering

- 2.1 Conduct business analysis
- 2.2 Finalize functional and non-functional requirements

3.0 Design

- 3.1 UI/UX design
- 3.2 Stakeholder review and approval

4.0 Development

- 4.1 Backend development (authentication , product APIs, categories)
- 4.2 Frontend development
- 4.3 Role-based access control
- 4.4 Admin dashboard integration

5.0 Testing

- 5.1 Functional Testing
- 5.2 Performance and Security Testing
- 5.3 Bug Fixes

6.0 Deployment

- 6.1 Cloud hosting setup (e.g., Vercel)
- 6.2 Custom domain setup
- 6.3 Final deployment

7.0 Project Closure

- 7.1 Feedback collection
- 7.2 Documentation & Handover
- 7.3 Final Group Presentation

4. Project Schedule Snapshot

Task	Start Date	End Date	Duration
Requirement Gathering	July 26	Aug 15	21 days
UI/UX Design	Aug 16	Sep 1	17 days
Development	Sep 2	Oct 1	30 days
Testing & Bug Fixing	Oct 2	Oct 15	14 days
Deployment	Oct 16	Oct 30	15 days
Maintenance & Feedback	Nov 1	Nov 5	5 days

5. Milestones

- Project Kickoff: July 26, 2025
- Requirements Finalized: August 15, 2025
- UI/UX Approved: September 1, 2025
- Development Complete (MVP Ready): October 1, 2025
- System Testing & Bug Fixing Complete: October 15, 2025
- Public Launch: October 30, 2025
- Feedback & Maintenance Phase: November 5, 2025

6. Risks and Mitigation

Risk	Likelihood	Impact	Mitigation Strategy
Free hosting downtime	Medium	High	Monitor uptime, use backup free hosting provider
Security vulnerabilities	High	High	Use HTTPS, sanitize inputs, secure authentication flows
Delays in UI/UX completion	Medium	Medium	Parallel backend development

7. Project Team

- **Project Sponsor & Manager:** Shaheer Ahmed
- **Business Analyst:** Business Analyst from Alpha Solutions
- **Frontend Developer:** Alpha Solutions Developer Team
- **UI/UX Designer:** Alpha Solutions Design Team
- **QA Tester:** QA from Alpha Solutions
- **Deploy Manager:** Deployment Engineer from Alpha Solutions

8. Budget (Estimated)

Item	Cost (PKR)
Domain & Hosting	5,000
Tools (Figma, GitHub)	2,000 (optional)
Miscellaneous	3,000
Total Estimated	**10,000**

Note: Cost minimized using free development and deployment tools.

9. Communication Plan

- **Weekly Meetings:** Internal team sync-up
- **Bi-weekly Reports:** Progress update to sponsor
- **Slack:** Daily communication
- **Google Drive/GitHub:** Documentation and code sharing

10. Approval Requirements

- Requirements sign-off by: August 15, 2025
- UI/UX design approval by: September 1, 2025
- Final launch approval by: October 30, 2025

11. Success Criteria

- 100% functional inventory system deployed before October 30
- Zero major bugs post-launch
- Accessible on all major browsers and devices
- System used successfully by at least 3 beta business users