Agile Plan – Inventory App Project

This Agile plan outlines the sprint structure, milestones, epics, and user stories for the development of the Inventory App using Scrum methodology.

1. Project Overview

- Project Name: Inventory Management App
- Team: Full-stack developers, UI/UX designer, QA, Product Owner
- Duration: 6 Weeks
- Sprints: 3 sprints (2 weeks each)

2. Milestones

Milestone	Description	Target Date
Project Kickoff	Requirements finalized, backlog ready	Week 1, Day 1
Sprint 1 Completion	Backend + API, basic web UI	End of Week 2
Sprint 2 Completion	Mobile screens + web modals	End of Week 4
Final Sprint Completion	Full CRUD on both platforms + QA pass	End of Week 6
Deployment & Wrap-Up	Production deploy, docs complete	End of Week 6

3. Epics

Epic 1: Backend API & Database

- Set up Express server and MongoDB connection
- Define Mongoose models and schema
- Implement CRUD routes

Epic 2: Web Frontend (Vue.js)

- HomePage with item list
- AddItem and EditItem modals
- API integration using Axios

Epic 3: Mobile Frontend (React Native)

- HomePage screen
- AddItem and EditItem screens
- Shared API integration

Epic 4: User Experience & QA

- Error handling, form validation
- Undo delete support
- Manual testing on multiple devices
- Documentation and SRS review

4. Sprint Breakdown

Sprint 1: Foundation & Web CRUD

Goals

- Set up backend API
- Basic frontend for viewing and adding items

Stories

- Set up Express server and routes
- Create Item model in Mongoose
- Implement GET, POST, DELETE routes
- Create HomePage.vue with item table
- Add AddItemModal.vue with form

Sprint 2: Mobile UI & Web Editing

Goals

- Develop core mobile features
- Enable item editing on web

Stories

- Create HomePage.js for React Native
- Add AddItem.js and EditItem.js

- Build EditItemModal.vue with update/delete
- Implement shared Axios module for both platforms

Sprint 3: Testing, Polish & Deployment

Goals

- Polish UI/UX
- Finalize undo, error handling, and responsiveness
- Deploy and document

Stories

- Implement undo delete functionality
- Add error toasts on failed API calls
- Finalize styles and layout on web/mobile
- Seed database with test items
- Write and export design & requirements docs
- Deploy backend and frontend to production

5. Tools

- Task Management: Trello / Jira
- Version Control: Git (GitHub or GitLab)
- Deployment: Vercel / Netlify (web), Expo / EAS (mobile)
- Documentation: Markdown + PDF export

Product Owner:
Scrum Master:
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