

Section 1: Project Summary

Project Title: Club App – Smart Table Ordering System

Core Idea:

A mobile-based table-ordering solution for clubs, restaurants, and lounges. Customers scan a QR code to access a digital menu, place orders, view order statuses, split bills, and give feedback. Staff can manage orders, inventory, notifications, and analytics through a dashboard.

Design Focus:

During this 3-week sprint, the team will focus on:

- UI/UX design: wireframes, user journeys, visual mockups, and prototype testing.
- Data Flow Diagram modeling: Level 0–2 diagrams, data stores, and process documentation.

Modules to Cover:

1. Customer module (QR login, menu, order, payment, feedback)
2. Staff/Admin module (dashboard, order tracking, inventory)
3. System processes (data synchronization, analytics, notifications)

Section 2: Team Member Skills Overview

Member	Key Strengths	Relevant Skills
Maranatha James Ndege	Full-stack developer, backend logic design, RESTful API structure, UX planning	Django, MySQL, React Native, API flow design, system documentation

Member	Key Strengths	Relevant Skills
Chrispine Dzimbiri	Full-stack and UI/UX design experience, prototyping, project leadership	Flutter, Django, Figma, REST APIs, Agile, team leadership
Elijah Mhango	Data-driven developer, strong in documentation and front-end prototyping	Flutter, React Native, web design, data analysis, MySQL
Praise Tithe Khonje	Creative designer, multimedia and mobile UI experience	Flutter, React Native, Django, photography, design tools
Philimon Katambo	AI, web & mobile app development, embedded systems logic	Django, Flutter, ML design concepts, data modeling
Timothy Zikani Msiska	Organized planner, system analyst, UI/UX enthusiast, leadership skills	Python (Django), Flutter, documentation, project coordination
Timothy Wongani Mphande	Backend integration, DFD modeling, system analysis	Node.js, Django, databases, API & process flow mapping

Section 3: 3-Week Task Allocation Schedule

Sprint Duration: 3 Weeks (15 Working Days)

Start Date: Monday, Nov 10, 2025

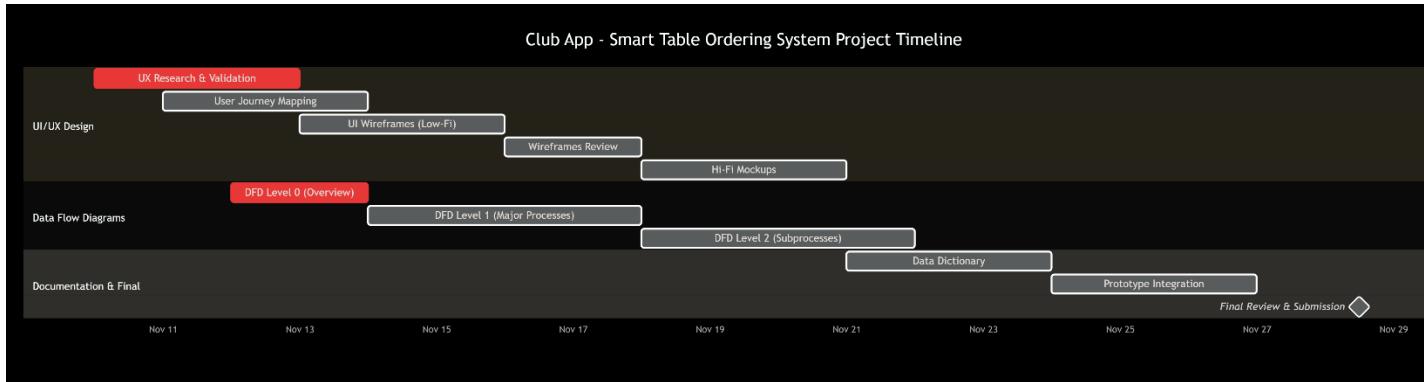
End Date: Friday, Nov 28, 2025

Task/Responsibility	Assigned Member(s)	Start Date	End Date	Dependencies	Deliverables	Rationale
1. UX Research & Requirement Validation	Timothy Msiska, Elijah Mhango	Nov 10	Nov 12	None	UX research summary, user personas, requirements confirmation	Msiska's analytical skill + Elijah's documentation ensures accurate user insights.
2. User Journey Mapping (Customer & Staff flows)	Praise Khonje, Maranatha Ndege	Nov 11	Nov 13	Task 1	Visual maps for user flow (login → order → payment)	Praise's creativity complements Maranatha's system logic understanding.
3. UI Wireframes (Low-Fidelity)	Chrispine Dzimbiri (Lead), Praise Khonje	Nov 13	Nov 15	Task 2	Figma wireframes for all app modules	Chrispine's prototyping and Praise's front-end sense deliver strong visuals.
4. UI Wireframes Review & Adjustments	All members	Nov 16	Nov 17	Task 3	Updated approved wireframes	Ensures all roles provide feedback for usability and consistency.
5. High-Fidelity UI Mockups (Color, Branding, Interactions)	Chrispine Dzimbiri, Elijah Mhango	Nov 18	Nov 20	Task 4	Final design mockups in Figma or Adobe XD	Chrispine and Elijah have strong design

Task/Responsibility	Assigned Member(s)	Start Date	End Date	Dependencies	Deliverables	Rationale
						and frontend tool experience.
6. Data Flow Diagram – Level 0 (System Overview)	Timothy Wongani Mphande, Philimon Katambo	Nov 12	Nov 13	Task 1	Context diagram showing main entities and data flows	Mphande's backend logic & Philimon's data modeling expertise.
7. Data Flow Diagram – Level 1 (Major Processes)	Timothy Wongani, Maranatha Ndege	Nov 14	Nov 17	Task 6	DFD Level 1 with labeled processes and data stores	Maranatha's backend logic with Mphande's analytical precision.
8. Data Flow Diagram – Level 2 (Detailed Subprocesses)	Philimon Katambo, Timothy Msiska	Nov 18	Nov 21	Task 7	DFD Level 2 diagrams with detailed data paths	Both strong in structured system analysis.
9. Data Dictionary & Process Documentation	Maranatha Ndege, Elijah Mhango	Nov 21	Nov 23	Task 8	Data dictionary (entities, attributes, sources) and process table	Balances (Maranatha) and documentation clarity (Elijah).
10. UI/UX Prototype Integration & Demo Prep	Chrispine Dzimbiri, Praise	Nov 24	Nov 26	Tasks 5, 9	Interactive prototype demo	Final collaboration of

Task/Responsibility	Assigned Member(s)	Start Date	End Date	Dependencies	Deliverables	Rationale
	Khonje,				and walkthrough design + analysis	
	Timothy				slides	leads.
	Msiska					
					Final UI/UX files, Full team review	
11. Final Review & Submission	All members	Nov 27	Nov 28	All tasks	DFDs, documentation, presentation deck	to ensure alignment and readiness for next sprint.

Visually:



Section 4: Collaboration & Tool Recommendations

Tools to Use

Category	Recommended Tool
UI/UX Design	Figma (wireframing, prototyping), Adobe XD
DFD & System Modeling	Lucidchart, Draw.io, starUML
Collaboration	Notion / Trello for task tracking
Communication	WhatsApp group + weekly Google Meet
Documentation	Google Docs / Confluence

Sprint Check-in Plan

- **Daily Stand-up:** 15 minutes (each morning)
- **Mid-Sprint Review:** End of Week 2 (Nov 21)
- **Final Review:** End of Week 3 (Nov 28)

Deliverables Summary

1. User personas and UX research report
 2. Full set of low and high-fidelity UI mockups
 3. DFD Level 0–2 diagrams
 4. Data dictionary and process documentation
 5. Final integrated design demo (interactive prototype)
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Summary Note

This plan strategically balances design and analytical tasks:

- **Chrispine** and **Praise** lead UI/UX creativity.
- **Maranatha, Mphande**, and **Philimon** handle logical DFD modeling.
- **Elijah** and **Msiska** ensure documentation, research, and coordination consistency.

By the end of **Week 3**, the team will have a **complete design blueprint** ready for the development phase.