

Task List

1. **E-commerce Platform Base Setup**
2. **E-commerce Chatbot Integration**
3. **Negotiation Chatbot Extension**
4. **Social Media Analysis Dashboard**
5. **Leads Analysis Dashboard**
6. **Lead Analysis API Integration to E-commerce**
7. **VM and GitHub Deployment of E-commerce App**
8. **Deployment of Lead Analysis Dashboard**

Task Distribution

Dev Team - A

Members: Sadman, Kabir, Sami

Assigned Tasks:

- Task 1: Build the core E-commerce Platform
- Task 2: Integrate a basic chatbot into the platform
- Task 7: Deploy the E-commerce Platform on VM and GitHub

Dev Team - B

Members: Maisha, Anabil

Assigned Tasks:

- Task 4: Develop a standalone Social Media Analysis Dashboard

Dev Team - C

Members: Elma

Assigned Tasks:

- Task 5: Create Leads Analysis Dashboard
- Task 6: Add Lead Analysis API endpoint to the E-commerce Platform
- Task 8: Deploy the Leads Analysis Dashboard as a separate platform

Dev Team - D

Members: Smaron

Assigned Tasks:

- Task 3: Develop a Negotiation Chatbot
- Integrate it with the Chatbot system of the E-commerce Platform (in coordination with Team A)

Platform Overview

1. E-commerce Main App

- Built and maintained by Team A
- Includes chatbot and negotiation chatbot integration

2. Social Media Analysis Dashboard

- Built by Team B
- Independent platform

3. Leads Analysis Dashboard

- Built by Team C
- Connected to the E-commerce app via endpoint
- Deployed separately

Nextmart AI – Initial Setup Requirements

1. Infrastructure & Access

- **Virtual Machine (VM) Access**
 - Dedicated cloud VM instance
 - Accessible to all Dev Teams
 - Pre-installed with Node.js, Python, MongoDB/PostgreSQL (as needed)
- **Domain & IP**
 - Static IP bound to domain: `nextmart.ai` (or relevant subdomains)
 - SSL certificate configuration (HTTPS)

2. Version Control

- **GitHub Repository**
 - Central mono-repo or separate repos for each module (depending on project structure)
 - Example structure:
 - `nextmart-ecommerce`
 - `nextmart-ai-agent`
 - `nextmart-lead-dashboard`
 - `nextmart-social-analytics`

3. Application Modules & Codebases

A. E-commerce Platform

- **Frontend**
 - Tech Stack: React/Vue/Next.js
 - Integrated with chatbot interface
- **Backend**
 - Tech Stack: Node.js
 - Core APIs: Products, Orders, User Auth, Chatbot API integration

B. AI Agent

- **Backend Service**
 - Handles general chatbot logic
 - API endpoints for NLP, conversation context
 - Separate endpoint for negotiation chatbot (Team D)

C. Lead Generation Analysis

- **Dashboard Frontend**
 - Charts and tables visualizing lead data
 - Standalone interface (React or similar)
 - Integrated with backend via API

D. Social Media Analysis

- **Frontend**

- UI for displaying real-time social media insights and trends
- Independent dashboard

- **Backend**

- Crawlers/APIs to fetch social media data
- Processing & sentiment analysis modules