

Project Scope Statement

Project Title	Ecommerce Fraud
Scope of Work for Flutter App	<ol style="list-style-type: none">Requirements Gathering: Gather and analyze requirements for the Flutter app, including user stories, features, and design preferences.UI/UX Design: Design the user interface and user experience of the app, ensuring it is intuitive, visually appealing, and consistent with the brand guidelines.Development: Develop the Flutter app according to the design specifications, including user authentication, product browsing, cart management, and payment processing functionalities.Deployment: Deploy the appMaintenance and Support: Provide ongoing maintenance and support services to keep the app updated, secure, and compatible with the latest operating systems.
Scope of Work for AI	<ol style="list-style-type: none">Requirements Gathering: Gather and analyze requirements for the AI models, including the types of fraud to detect (transaction fraud, malicious URLs, content moderation fraud, and bot detection).Data Collection and Preprocessing: Collect and preprocess the data required to train the AI models, ensuring it is clean, relevant, and representative of the problem domain.Model Selection and Training: Select appropriate machine learning or deep learning models for each type of fraud detection and train them using the preprocessed data.Model Evaluation: Evaluate the trained models using appropriate metrics to assess their performance and make any necessary improvements.Testing: Conduct thorough testing of the AI models to ensure their accuracy, reliability, and efficiency in detecting fraud.Deployment: Deploy the AI models to a production environment, ensuring they are scalable and can handle the expected workload.
Scope of Work for Backend	<ol style="list-style-type: none">Requirements Gathering: Gather and analyze requirements for the backend system, including the APIs needed for communication with the Flutter app and the AI models.Database Design and Implementation: Design the database schema to store user information, product details, transactions, and other relevant data, and implement it using MySQL.API Development: Develop RESTful APIs using PHP to handle requests from the Flutter app, including user authentication, product management, and transaction processing.Integration with Flutter App: Integrate the backend APIs with the Flutter app to enable seamless communication between the frontend and backend systems.AI Model Integration: Integrate the AI models deployed using Flask into the backend system, enabling fraud detection functionalities during product addition and transaction processing.Deployment: Deploy the backend system to a production environment.

Scope of Work for Database	<ol style="list-style-type: none">1. Requirements Gathering: Gather and analyze requirements for the database, including the types of data to store and the relationships between different entities.2. Database Design: Design the database schema to ensure efficient storage and retrieval of data, and to support the functionalities of the Flutter app and backend system.3. Database Implementation: Implement the database schema using MySQL, ensuring data integrity, security, and scalability.4. Data Migration: Migrate existing data, if any, to the new database, ensuring minimal downtime and no loss of data.
Scope of Work for Power BI Report	<ol style="list-style-type: none">1. Requirements Gathering: Gather and analyze requirements for the Power BI report, including key metrics and visualizations needed to support decision-making and create fact and dimension tables.2. Data Preparation: Prepare the data for the Power BI report, including integrating data from the eCommerce platform, AI models, and other sources, and cleaning and transforming the data as needed.3. Report Design: Design the Power BI report, including creating visualizations such as charts, graphs, and tables to present the data in an understandable and actionable format.4. Dashboard Development: Develop a dashboard that provides an overview of key metrics and allows users to drill down into specific data points for more detailed analysis.