

Project Design Phase-II
Data Flow Diagram & User Stories

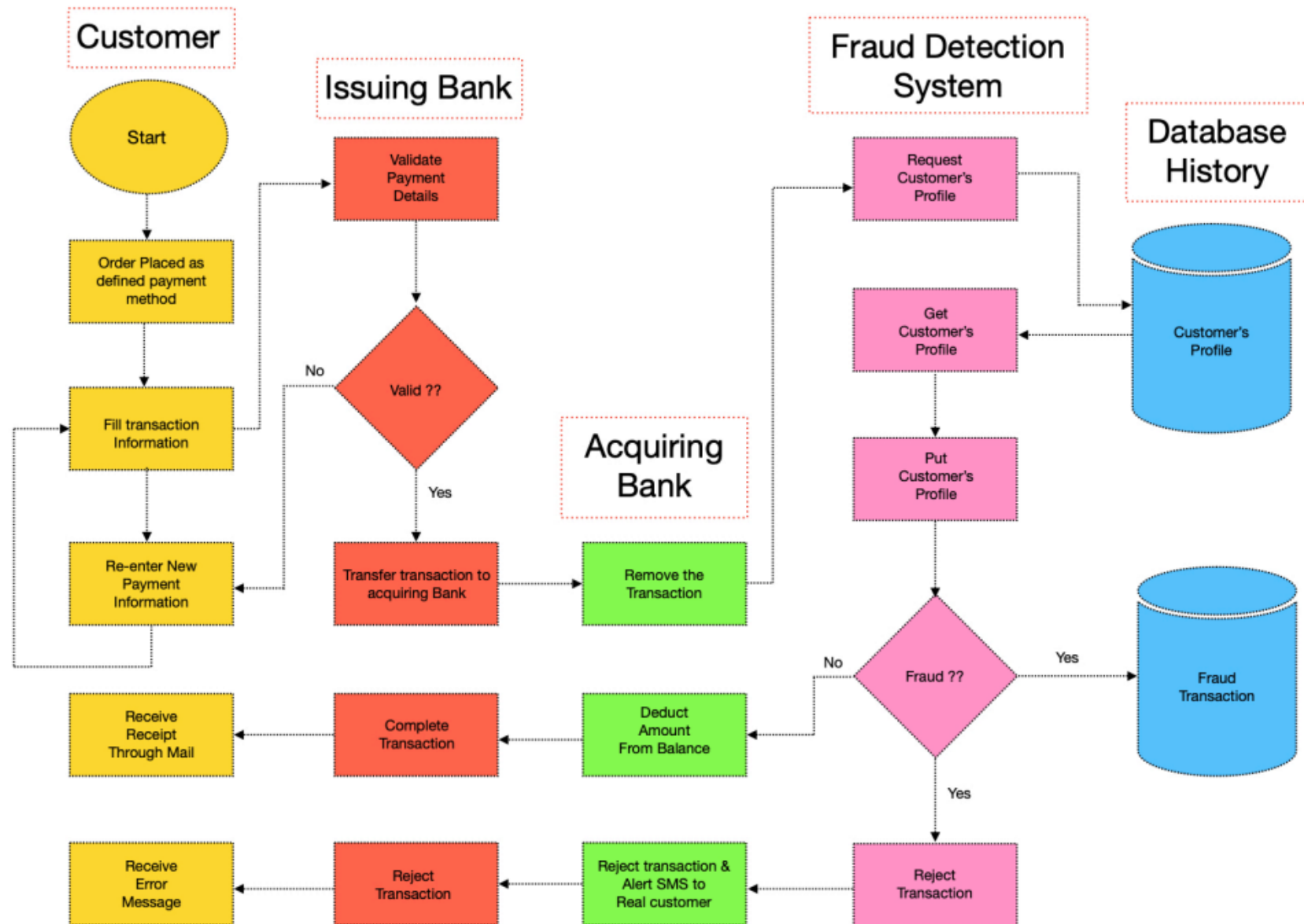
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|---------------|--|
| Date | 31 October 2023 |
| Team ID | Team-593387 |
| Project Name | Online Payments Fraud Detection using ML |
| Maximum Marks | 4 Marks |

Data Flow Diagrams:

In this diagram:

- Customers initiate transactions through the Payment Gateway.
- Transaction data is stored in the Transaction Database.
- The Data Preprocessing and Feature Extraction processes prepare the transaction data for the Machine Learning Classification.
- The Machine Learning Model uses historical data and the transaction's features to classify it as legitimate or fraudulent.
- The Fraud Detection Decision process determines the outcome of the fraud detection and takes appropriate actions.
- Notifications are sent to customers and the fraud detection team as necessary.
- System activities and logs are recorded in the System Logs.
- The Fraud Data Repository stores information about previous fraud cases for reference and improvement of the ML model.

This data flow diagram outlines the major components and data flows in an online payment fraud detection system using machine learning. Depending on the specific requirements of your system, you may need to further detail and expand on individual processes and data interactions.



User Stories

Use the below template to list all the user stories for the product.

| User Type | Functional Requirement (Epic) | User Story Number | User Story / Task | Acceptance criteria | Priority | Release |
|------------|-------------------------------|-------------------|---|---|----------|---------|
| Functional | Online Shopping Cart | USN-1. | As a customer, I want to add products to my shopping car | I can view a list of products. I can add a product to my shopping cart. The quantity in the shopping cart updates correctly. I can see the total price in the shopping cart. | High | v1.0 |
| | | USN-2 | As a customer, I want to remove products from my shopping cart. | I can remove a product from my shopping cart. The shopping cart updates to reflect the removal. The total price in the shopping cart updates correctly. | High | v1.0 |
| | | USN-3 | As a customer, I want to apply a discount code to my order. | I can enter a discount code during checkout. The system validates and applies the discount. The total price reflects the discount. | Medium | v1.1 |

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|--------|------------------------|-------|--|---|--------|------|
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| | | USN-4 | As a customer, I want to select a shipping method. | I can choose a shipping method during checkout. The shipping cost is added to the total price. | Medium | v1.1 |
| | | USN-5 | As a customer, I want to view my order history. | I can access a list of previous orders. I can view details of a specific order. I can see the order status and tracking information. | Medium | v1.2 |
| Log in | User Management System | USN-6 | As a User, I want to log in to the system with my username and password. | Users can access the login page. Users can enter their username and password. The system authenticates the user. Users are redirected to the appropriate dashboard based on their role after successful login. | High | v1.0 |
| | | USN-7 | As a User, I want to reset my password if I forget it. | Users can request a password reset. Users receive an email with a password reset link. | Medium | v1.1 |

| | | | | | | |
|--|--|-------|---|--|------|------|
| | | | | Clicking the link allows users to set a new password. | | |
| | | USN-8 | As a Customer (Web User), I want to view my order history on the dashboard. | Customers can access their order history from the dashboard. Orders are displayed with details and status. Customers can click on an order to view more information. | High | v1.2 |