"**Rambul**: A Mobile Application Enhancing Motorcycle Transportation Services for Efficient Travel in Butuan City"

**Members:**

Jeza Mae Salazar

John Mhico Tutor

Ron Albert Sarigumba

**Rambul Integration Infrastructure Model**

Rambul System

Integration Layer

Mapping Service

Payment Service

Notification Service

User Database

Ride Database

Driver Database

**Rambul Network Model**

Rambul Management Server

RESTful API

Tracking System

Database

RESTful API

Rambul Mobile Application

**Rambul Workflow Process Model**

Rambul Management Workflow

User Interaction

Request Processing

Matching Algorithm

Motorcycle Allocation

Ride Tracking

Payment Processing

Ride Completion

Feedback Handling

Ride History

Support Service

**Rambul Business System Domain Model**

Rambul Application

User Request

Ride Request Management and Dispatch

Driver Management

Driver Assignment

Ride Assignment and Notification

Ride Confirmation

Ride Status and Monitoring

Ride Completion

Fare Calculation and Payment

Rating and Review

User and Driver Feedback System

**Rambul Enterprise Data Storage Model**

Rambul Enterprise Data Storage

Data Sources

Application

Databases

File Systems

Sensors

External Data

Data Storage

Cloud Storage

Hybrid Storage

Object Storage

On-Premises

Block Storage

File Storage

Data Services

Data Recovery

Data Backup

Data Encryption

Data Archiving

Data Replication

Data Migration

**Rambul Knowledge Access Model**

Rambul Application

User and Driver Profiles

User Preference Management

Driver Availability System

Mapping and Geolocation Service

Payment Service

Notification Service

User Request

User Preferences

Driver Availability

Mapping and Geolocation

Payment Processing

Notifications

Ratings and Reviews

Notification Service

Rating and Review System