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[Company name]  [Company address]

MasterPay design Draft

# Framework

.NET 6.0 LTS

# Cloud Platform

Azure

Azure SQL Database

# Microservices

C#

.NET Framework

Hosting --> Azure App Service ( Auto scaling ) or AKS

# CI\CD

Azure DevOps

# SCCM

**Azure DevOps ( Git )**

**Event Sourcing \ Microservice Communication**

**Saga pattern \ Circuit Breaker \ Retry Pattern**

Azure Service Bus ( message broker )

# File Processing

Azure File share

Trigger based Azure Function

# Security

**Azure APi gateway** ( security , throttling , Load Balancer , reverse proxy )

OpenId Connect Authentication

# Testing Strategy

Test Driven Development (TDD using nUNIT)

API testing using RESTAssured \ SoapUI

# Monitoring

Azure App Insight ( correlation logging , alert , threat , monitoring )

# Logging

**log4net**

**serilog ( correlation logging )**

# Compliance

**PII- Do not store any personal identifiable data in DB or log that information.**

**PCI**

# Automation

Selenium# ( UI\Functional Automation )

JMeter and Azure Load Tester

# Code Analysis

SonarQube. Integrate SonarQube with build pipeline.

# Mobile App Dev

React Native

Deploy APK in App Center

Download using Google Playstore

# Service Specs

-User registration through email

Provide authentication using Google, Apple using Oauth .

 Microservices

UserService- Get user details

BillerService

-Get Billers- List of Billers(Electricity, Gas, Water)

-GetBillDetails(Billerid)

Request: BillerAccountnumber

Response: InvoiceId, PaymentAmount

 WalletService

-GetWalletBalance

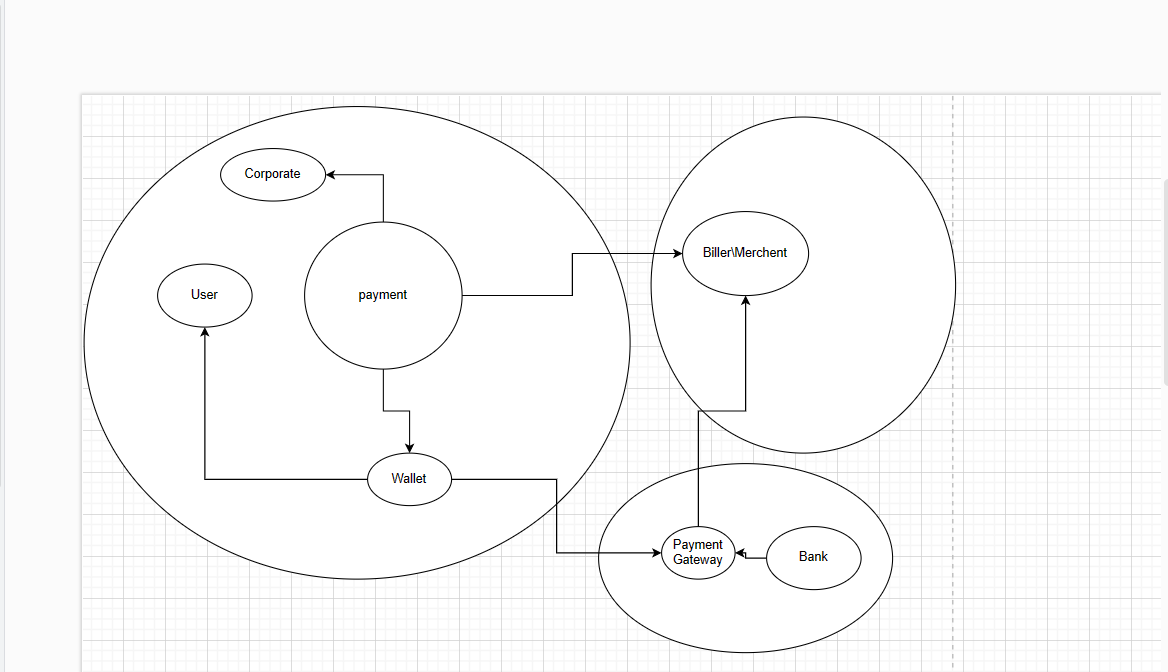
PaymentService-  Process Payments through payment gateway.

# Microservice Patterns:

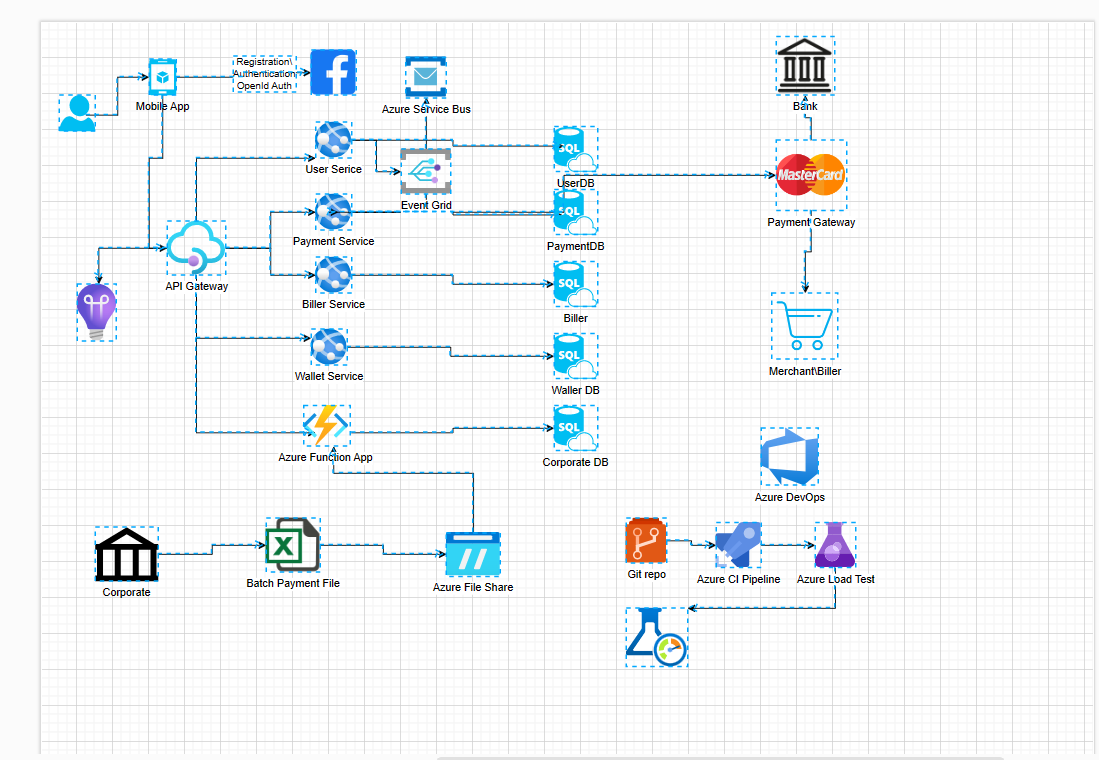
-Circuit Breaker for Resiliency

-SAGAs to maintain state.

# Bounded Context



# Proposed Solution



Database: See excel

