**\*Points to be added**

**\* Chat bot in ppt & doc**

**Back end:**

**.NET CORE 3.1/2.2 WEB API & MSSQL Server**

**Front end:**

**Angular 10 , Bootstrap , Material Design**

**Our Service providers:**

**Jolo (Web API) & Razor Pay(Payment gateway)**

**MODULES:**

**User Modules:**

1. Signup
2. Sign in – JWS Authentication (with 1day expiration)
3. Recharge

* Displays various plans with different operators
* Filter particular operator’s plans
* Select plan dynamically
* Recharge process

1)if user balance less than selected plan amount, user will be redirected to Add money

-ADD MONEY

-User will select the money he/she need.

-user will direct to razor pay payment gateway.

- User will enter his/her credentials.

- OTP Verification

-Payment Success & Redirected to Home page

-Payment response will be sent as email to the user.

-User will able to see his/her wallet transaction history in wallet section.

2)if user balance greater than selected plan amount, user’s phone number will get recharged with the selected plan.

-user can also recharge their friends/family member’s phone number with different plans with different operators.

-if recharge is success , user will get a current plan sms response from the respective network operator.

- now user’s current plan & recharge transaction will get updated in respective network operator’s application.

-if recharge status is failure, the debit amount will be refunded to user’s wallet with in a minute(because of speed refund services by our custom api & razorpay payment gateway service)

4.Add Money

-User will select the money he/she need.

-user will direct to razor pay payment gateway.

- User will enter his/her credentials.

- OTP Verification

-Payment Success & Redirected to Home page

-Payment response will be sent as email to the user.

-User will able to see his/her wallet transaction history in wallet section.

5.Operator Finder

- User can able to find operator name of any he/she desires.

-Note: Ported(Network Operator switch) number’s old operator name will be shown.

6.Wallet History

-User’s wallet history will be shown here based on the recent transaction.

- Each transaction have transaction id which is useful for monitoring the transaction in admin(JoloAPI) dashboard.

7.Logout

-User will directed to the home page after logout .

-If user closed the application without logout the account won’t be signed out because JWT will long last for a day. So he/she can use the website without signing in once again.

-after 24 hours the JWT will get expired.

**Admin Dashboard:**

1. Admin can able to monitor recharge transactions(both success & failed transactions)
2. Admin can able to monitor the plans for the respective operators.
3. Admin can solve the queries of the user in help desk.
4. Admin can monitor user details.

**PPT:**

1. Project Name
2. Agenda
3. Project overview
4. About Rpay
5. Jolo API & Razor pay Payment gateway
6. Tools & Technologies
7. Project Flow
8. Database design (Data Layer)
9. Web API design (Buisness Logic layer) & Angular 10 structure(Presentation Layer)
10. User module
11. Admin module
12. Demo slide
13. Q/A
14. Thank you note
15. Project Name

Online Mobile Recharge System

FINAL PROJECT – ANGULAR 10 & ASP.NET CORE 3.1 WEB API

RPAY Logo

Team members name

By

Naveeth Z A

Rajagurunathan Manikandan

Saravanakumar Balasubramaniyam

1. AGENDA
   1. Project overview
   2. About Rpay
   3. Our service providers
   4. Tools & Technologies
   5. Project flow
   6. Database design
   7. Web API design & Angular 10
   8. User module
   9. Admin module
2. PROJECT OVERVIEW
   1. The proposed project for recharging mobiles developed to automate the mobile recharging process.
   2. It roots out the manual card system of recharge and introduces a new and genuine online recharge process.
   3. The online mobile recharge system is beneficial to both the admins and users.
   4. Using the online application, the admin can add new operators, tariff plans, offers and update or modify the existing tariff plans.
   5. It helps the users in creating their account, and then recharging the mobiles phones at any time.
3. ABOUT RPAY

* Online Mobile Recharge System is a Web

Based Application(RPAY) developed to recharge

Mobile Phones.

* This System Focuses At Providing An Easy

And Reliable Platform To Recharge Mobile

Of Any Telecommunication Company Through

Online Without Buying Recharge Card

1. Our service providers
   1. Jolo
      1. "joloapi.com"​ is a online recharge and bill portal. We believe in providing best and affordable services to our customers. We believe trust is more important in business between customers and a company. With this believe we are growing our business all over India at fastest rate in the history of telecom portal industry.  
           
         We have dedicated expert team for each service enhancing the efficiency of business. Our team is available 24x7 whenever you need any kind of help. We have a policy for our team that they must respond to customers query within 24 hours, doesn't matter how busy the day is!
      2. We provide online instant mobile recharge service. Earn commission on every recharge you do.
   2. Razor Pay
      1. A payment gateway is an ecommerce service that processes online payments for online as well as offline businesses. Payment gateways help accept payments by transferring key information from their merchant websites to issuing banks, card associations and online wallet players.
      2. Razorpay is the only payments solution in India that allows businesses to accept, process and disburse payments with its product suite. It gives you access to all payment modes including credit card, debit card, netbanking, UPI and popular wallets including JioMoney, Mobikwik, Airtel Money, FreeCharge, Ola Money and PayZapp.
      3. Razorpay supports over 100+ payment modes including Credit and Debit Cards (Visa, Mastercard, Rupay, AMEX, Diners), Net Banking from top 50+ banks, UPI (Web Collect & UPI Intent), Online Wallets, EMIs (Credit/Debit Cards & Cardless), PayLater and NEFT/RTGS payments.
      4. Build for Developers - Robust, clean, developer friendly APIs, plugins and libraries for all major languages and platforms that let you focus on building great products.
      5. About Integration - Integrating payments with Razorpay is as simple as it can get with well documented SDKs, RESTful APIs and plugins for all major platforms and languages.

6.Tools & Technologies:

Tools used: Visual Studio , Visual Studio code, MS SQL SERVER Management studio,Postman.

Technologies used: Angular 10,ASP.NET CORE 3.1 WEB API,MS SQL SERVER,Bootstrap , Material Design.

7.Project flow:

Flow chart pic

8.Database design

DB Photo

9.Web API & Angular 10 Design

-We used ASP.NET CORE 3.1 for developing web API.

- We integrated jolo api with our local web api for customized responses.

-So our web api will respond faster based on the request and also handled exception cases in in jolo api.

-Angular 10 structure

10.User Modules:

* Signup
* Login – Login is authenticated using Json Web token
* Recharge Module
  1. -We have four network operators name Airtel,Jio,BSNL,VodafoneI
* Displays various plans with different operators
* Filter particular operator’s plans
* Select plan dynamically
* Recharge process

1)if user balance less than selected plan amount, user will be redirected to Add money

-ADD MONEY

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* Add Money Module
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  + -user will direct to razor pay payment gateway.
  + - User will enter his/her credentials.
  + - OTP Verification
  + -Payment Success & Redirected to Home page
  + -Payment response will be sent as email to the user.
  + -User will able to see his/her wallet transaction history in wallet section.
* Operator Finder
  + - User can able to find operator name of any he/she desires.
  + -Note: Ported(Network Operator switch) number’s old operator name will be shown.
* Wallet History
  + -User’s wallet history will be shown here based on the recent transaction.
  + - Each transaction have transaction id which is useful for monitoring the transaction in admin(JoloAPI) dashboard.

11. Admin Module(Jolo Dashboard)

* Admin can able to monitor recharge transactions(both success & failed transactions)
* Admin can able to monitor the plans for the respective operators.
* Admin can solve the queries of the user in help desk.
* Admin can monitor user details.

12.Demo Time

13.Q & A

14. Thank you note