Chapter 5

SYSTEM IMPLEMENTATION

5.1 INTRODUCTION

Implementation deals with the issues of quality, performance and delivering the end product. Implementation requires proper planning, investigating the system requirements and designing the methods required to achieve the requirement. We provide a web portal where user can enter their account details and a customer account will be created, and he can use this account for future use.

User can add money to their recharge wallet and can recharge their mobile. We have provided the user with automated recharge feature based on some threshold set by the user.

5.2 ALGORITHM/METHODS USED

Sl No.	File	Function
1.	registerview.blade.php	Consists of HTML form which takes the user details for registration.
2.	loginview.blade.php	Consists of HTML form which takes the user details for login.
3.	homepage.blade.php	Gives users the options to load wallet, recharge mobile and set threshold.
4.	walletcontroller.php	Contains the methods to load wallet balance, recharge mobile and set or change recharge threshold.

Table 5.2.1 Algorithm/Methods used

```
registerview.blade.php* ×
 1    <!DOCTYPE html>
 2    <html >
 3    <head>
 4      <meta charset="UTF-8">
 5      <title>Login Form</title>
 6
 7
 8
 9          <link rel="stylesheet" href="/walletfiles/css/style.css">
10
11
12    </head>
13
14    <body>
15      <div class="login">
16      <div class="login-triangle"></div>
17
18      <h2 class="login-header">Automatic Recharge Wallet Log in</h2>
19
20
21       <form class="login-container" method="get" action="/wallet/register">
22      <p><input type="text" placeholder="Name" name="name"></p>
23        <p><input type="text" placeholder="Mobile Number" name="mobileno"></p>
24        <p><input type="password" placeholder="Password" name="password"></p>
25        <p><input type="submit" value="Register"></p>
26        <center><?php echo $msg?><center>
27        <center><p>Already Registered? <a href="/wallet/loginview">Login Here</a></p></center>
28      </form>
29
30    </div>
31      <script src='http://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'></script>
32    </body>
33    </html>
```

Fig 5.2.2 Snap shot of registerview.blade.php

```
loginview.blade.php ×
 1    <!DOCTYPE html>
 2    <html >
 3    <head>
 4       <meta charset="UTF-8">
 5       <title>Login Form</title>
 6
 7
 8
 9          <link rel="stylesheet" href="/walletfiles/css/style.css">
10
11
12    </head>
13
14    <body>
15       <div class="login">
16       <div class="login-triangle"></div>
17
18       <h2 class="login-header">Automatic Recharge Wallet Log in</h2>
19
20       <form class="login-container" method="get" action="/wallet/login">
21          <p><input type="text" placeholder="Mobile Number" name="mobileno"></p>
22          <p><input type="password" placeholder="Password" name="password"></p>
23          <p><input type="submit" value="Log in"></p>
24          <center><?php echo $msg?><center>
25          <center><p>Not Registered? <a href="/wallet/registerview">Register Here</a></p></center>
26       </form>
27
28    </div>
29       <script src='http://cdnjs.cloudflare.com/ajax/libs/jquery/2.1.3/jquery.min.js'></script>
30
31
32    </body>
33    </html>
```

Fig 5.2.3 Snap shot of loginview.blade.php

```
homepage.blade.php ×

67    <div class="container card_container ">
68        <div class="row">
69            <div class="ind_cards delivery radius-md col-md-3 col-sm-5 col-xs-10">
70                <div class="div_header">
71                    My Wallet <i class="fa fa-money" aria-hidden="true"></i>
72                </div>
73
74                <div class="div_content">
75                <br/>
76                    Wallet Balance : <span class="wallet_heading">Rs.{{$walletbalance}}</span>
77                    <br/>
78                    <hr/>
79                    <p>
80
81
82                        <form method="GET" action="/wallet/addmoney">
83                        <input type="text" class="wallet_input" placeholder="ENTER AMOUNT" name="amount"><br/>
84                        <button id="add_money">ADD MONEY</button>
85                        </form>
86                        <br/>
87
88                    </p>
89                </div>
90                </div>
91
92
93            <div class="ind_cards delivery radius-md col-md-3 col-sm-5 col-xs-10">
94            <div class="div_header">
95                Mobile Recharge <i class="fa fa-mobile" aria-hidden="true"></i>
96            </div>
97
98                <div class="div_content">
99
```

Fig 5.2.4 Snap shot of homepage.blade.php

```php
WalletController.php ×
 1  <?php
 2
 3  namespace App\Http\Controllers;
 4
 5  use Illuminate\Http\Request;
 6  use DB;
 7  use Redirect;
 8  use App\Http\Requests;
 9  use App\Http\Controllers\Controller;
10
11  function walletbalance()
12  {
13              $data = DB::table('wallet_users')->where('mobileno','=',$_SESSION['mobileno'])->get();
14              foreach($data as $d)
15              {
16              $walletbalance = $d->walletbalance;
17              }
18              return $walletbalance;
19  }
20
21  function mobilebalance()
22  {
23              $data = DB::table('wallet_users')->where('mobileno','=',$_SESSION['mobileno'])->get();
24              foreach($data as $d)
25              {
26              $mobilebalance= $d->mobilebalance;
27              }
28              return $mobilebalance;
29  }
30
31  function rechargethreshold()
32  {
33              $data = DB::table('wallet_users')->where('mobileno','=',$_SESSION['mobileno'])->get();
```

Fig 5.2.5 Snap shot of walletcontroller.blade.php

5.3 MODULES USED

The Recommendation system consists of three parts that are mentioned below:

1. Web Application
2. Recharge wallet
3. Recharge threshold

5.3.1 Web Application

Registration is done using the web application where the customer enters his personal information like Name, Mobile number and password.

For login, the customer enters his/her details such as mobile number and password.

If the details supplied by the user is correct, he/she is redirected to the homepage.

If the details provided are incorrect, he/she is asked to enter the details again.

In the homepage, the user has the options to load the wallet, recharge his/her mobile number and set or change recharge threshold.

5.3.2 Recharge Wallet

Every user has their own personal wallet. The wallet is used for recharging purpose. The wallet is first loaded by the user with some specific amount. When the user does a mobile recharge, money is deducted from his/her wallet if there is sufficient amount in it to perform the recharge. If there is not enough balance in the wallet, the user is first asked to load the wallet and then go back and perform the recharge.

```
homepage.blade.php ×                                                          Page 32
57
58  <section>
59      <div class="container">
60          <div class="row">
61              <div class="heading_container radius transition">
62                  <h1>AUTOMATIC RECHARGE WALLET <i class="fa fa-tachometer" aria-hidden="true"></i></h1>
63              </div>
64          </div>
65      </div>
66
67      <div class="container card_container ">
68          <div class="row">
69              <div class="ind_cards delivery radius-md col-md-3 col-sm-5 col-xs-10">
70                  <div class="div_header">
71                      My Wallet <i class="fa fa-money" aria-hidden="true"></i>
72                  </div>
73
74                  <div class="div_content">
75                  <br/>
76                      Wallet Balance : <span class="wallet_heading">Rs.{{$walletbalance}}</span>
77                      <br/>
78                      <hr/>
79                      <p>
80
81
82                          <form method="GET" action="/wallet/addmoney">
83                          <input type="text" class="wallet_input" placeholder="ENTER AMOUNT" name="amount"><br/>
84                          <button id="add_money">ADD MONEY</button>
85                          </form>
86                          <br/>
87
88                      </p>
89                  </div>
```

Fig 5.3.1 Snap shot of rechargewallet.blade.php

5.3.3 Recharge Threshold

The user has the option to both set and change the threshold anytime he/she wishes.

Automation is done by the setting of the threshold. Whenever a certain threshold is reached, a method is activated to recharge the user mobile.

2 types of threshold:-

- Time based
- Volume based

TIME BASED THRESHOLD

- When a certain time period has expired, the system will inform the user by sending a SMS containing related information.

VOLUME BASED THRESHOLD

- When the specified volume has expired, the system will inform the user by sending a SMS containing related information.

- When either of the threshold is exceeded, the recharge is done automatically by deducting the amount from the digital wallet.

```
homepage.blade.php ×
122
123          <div class="ind_cards delivery radius-md col-md-3 col-sm-5 col-xs-10">
124              <div class="div_header">
125                  Mobile Recharge Options <i class="fa fa-bars" aria-hidden="true"></i>
126              </div>
127
128              <div class="div_content">
129
130                  Current Recharge Threshold : <span class="wallet_heading">Rs.{{$rechargethreshold}}</span>
131                  <br/><br/>
132                  <form method="GET" action="/wallet/changerechargethresholdview">
133                  <button id="add_money">CHANGE RECHARGE THRESHOLD</button>
134                  </form>
135                  <hr/>
136                  Current Automatic Recharge Amount : <span class="wallet_heading">Rs.{{$rechargeamount}}</span>
137                  <br/><br/>
138                  <form method="GET" action="/wallet/changerechargeamountview">
139                  <button id="add_money">SET RECHARGE AMOUNT</button>
140                  </form>
141
142
143              </div>
144          </div>
145
146
147          <div class="radius-md col-md-11 col-sm-5 col-xs-10">
148
149              <div class="div_content">
150                  <center><h4><?php echo $msg?></center></h4>
151              </div>
152          </div>
153
154
```

Fig 5.3.2 Snap shot of rechargethreshold.blade.php

SUMMARY

This chapter discussed about the project implementation and also discussed about the modules involved in the implementation. The modules have been described by arranging them in a sequential manner, so that it can be clearly understood by novice users. On the whole, a detailed explanation of the working of each of the modules is given.