NITTE MEENAKSHI INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

Approved and Accredited by AICTE, Affiliated to Visvesvaraya Technological University

Yelahanka, Bangalore - 560 064.



DATABASE MANAGEMENT SYSTEM PROJECT REPORT ON "LAUNDRY SERVICE DATABASE"

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



CERTIFICATE

Certified that the project work entitled STUDENT MANAGEMENT SYSTEM is a bonafied work carried out by Roshan Badrinath[1NT15CS140] of semester V, in partial fulfillment for the award of degree of **bachelor of engineering of Visvesvaraya Technological University**, **Belgaum** during the year 2017-18. It is certified that all the corrections or suggestions indicated for internal assessment have been incorporated in the report deposited in the department library. The project report has been approved as it satisfies the academic requirements in respect of project work prescribed for bachelor of engineering degree.

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1				

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ABSTRACT

In today's fast paced busy world, many people don't have any enough time to wash clothes and iron it. So this is a small project for the implementation of the laundry service.

Laundry processes include washing (usually with water containing detergents or other chemicals), agitation, rinsing, drying, pressing (ironing), and folding. The washing will often be done at a temperature above room temperature to increase the activities of any chemicals used and the solubility of stains, and high temperatures kill micro-organisms that may be present on the fabric.

A self-service laundry, coin laundry, or coin wash is a facility where clothes are washed and dried without much personalized professional help.

This helps us in our eternal quest for work-life balance. So with the help of this we can stop wasting our time doing dirty laundry, instead do something that makes us happy – build our business, or spend some time with our beloved ones.

Our application allows customers to wash different types of clothes such as cotton,nylon,silk,etc..It also provides information on the rates for different types of clothes. This Project helps in managing the customer details who has provided clothes for washing and it also maintains the cost and due dates within which the clothes has to be returned to the customer.

1. INTRODUCTION

<u>DATABASE</u>:A database is a collection of related data. Defining a database involves specifying the data type, attributes and constraints for the data to be stored.

Constructing a database is a process of storing itself on some storage medium like disk or tape that can be handled by the DBMS. Manipulating a database includes such functions like querying a database, to retrieve a specific data, updating the database, to reflect the changes in the miniworld and generate reports from the data.

<u>DBMS</u>: It is a collection of programs that enables us to create, maintain and manipulate the database. It is hence the general-purpose software system that facilitates the process of defining, constructing and manipulating databases for various applications.

<u>DATA MODEL:</u> Is a set of concepts that is used to describe the structure of the database.

<u>HIERARCHICAL DATA MODEL:</u>This model represents data hierarchy which has to be maintained.

<u>DATABASE ABSTRACTION:</u> Major objective of databases is to provide the user with an abstract view of the data i.e. the system hides the details about the storage of the database. They include:

- LOW LEVEL ABSTRACTION: it defines how exactly the data is stored in the database. It is a detailed view dealing with the actual constructs used and the storage details of the database.
- <u>CONCEPTUAL LEVEL:</u> The next level of the abstraction defines how exactly the data is stored and the relationship that exists between the data. Implementation of the complex physical storage is hidden from the user.
- <u>VIEW LEVEL</u>: This s the highest level of data abstraction and provides the users wit facility to view the part of the database. This is to exploit the fact that many users will not need the intricate details of the data storage.

2. REQUIREMENTS

This application is actually a suite of applications developed using:

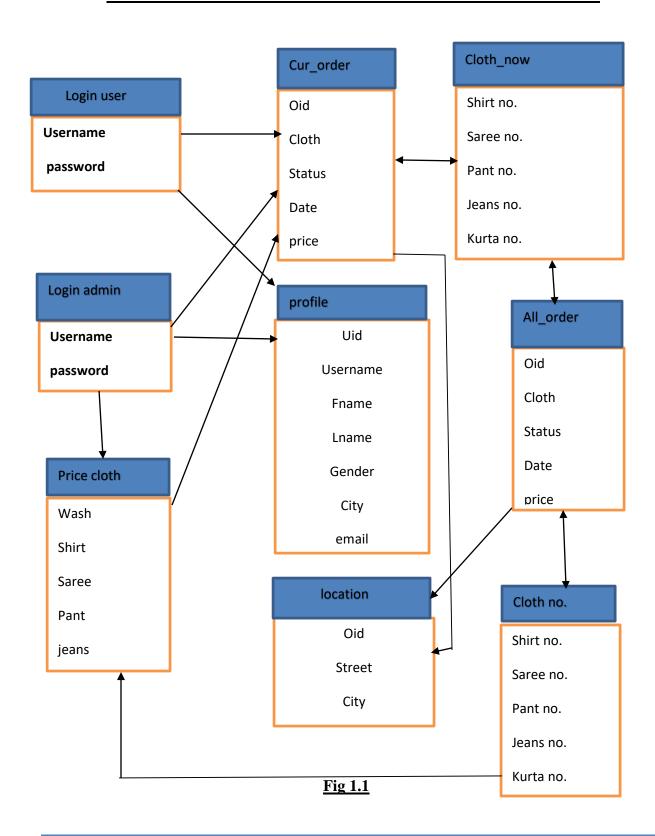
Hardware interfaces

- Memory minimum of 1GB RAM
- Hard disk of 40 GB
- Monitor
- Mouse
- Keyboard
- Printer

Software interfaces

- Operating System ----- Linux
- Front End ------ HTML, CSS
- Backend ------ PHP, Apache2 Server, MySQL

3. ER DIAGRAM OF STUDENT MANAGEMENT SYSTEM



DESCRIPTION OF ER-DIAGRAM

An Entity Relationship data model is based on a perception of a real world that consists of a set of basic objects called **entities** and of **relationships** among these entities.

The basic features of an ER diagram are:

1.ENTITY TYPE:

An entity type defines a collection of entities that have the same attributes .Each entity type in the database is described by its name and attributes.

The entity types used in our ER diagram are: LOGIN USER, LOGIN ADMIN, PRICE CLOTH, CLOTH NO, CURORDER, ALLORDER, PROFILE and LOCATION.

The attributes of the following entity types are:

- 1. LOGIN USER- username, password.
- 2. LOGIN ADMIN-username, password
- 3. PRICE CLOTH- wash, shirt, pant, kurta.
- 4. CLOTH NO-oid, shirtno, pantno, sareeno, kurtano.
- 5. CURORDER-oid, uid, status, date, price, cloth.
- 6. ALLORDER- oid, uid, status, date, price, cloth.
- 7. CLOTH NOW-oid, shirtno, pantno, sareeno, kurtano.
- 8. PROFILE-uid, username, fname, lname, gender, city, landmark.
- 9. LOCATION-oid, street, city, landmark.

4. SCHEMA'S

1. schema for login user

```
mysql> desc loginuser;
  Field
             Type
                             Null
                                    Key
                                           Default
                                                     Extra
             varchar(20)
                             NO
                                    PRI
                                           NULL
  username
             varchar(50)
                             YES
                                           NULL
  password
 rows in set (0.01 sec)
```

Fig 4.1

2. schema for login admin

mysql> desc	loginadmin;				
Field	Туре	Null	Key	Default	Extra
	varchar(40) varchar(40)			NULL NULL	
2 rows in se	et (0.01 sec)				

Fig 4.2

3. schema for price cloth

```
mysql> desc pricecloth;
                              Null
                                             Default
  Field
                                      Key |
                                                        Extra
               Type
               varchar(20)
                               YES
  wash
                                             NULL
               int(11)
                               YES
  ctshirt
                                             NULL
  cttshirst
               int(11)
                               YES
                                             NULL
                               YES
  ctpant
               int(11)
                                             NULL
  ctsaree
               int(11)
                               YES
                                             NULL
  slksaree
                               YES
               int(11)
                                             NULL
  kurta
               int(11)
                               YES
                                             NULL
  woollen
               int(11)
                               YES
                                             NULL
                               YES
                                             NULL
  jeans
               int(11)
  others
                               YES
                                             NULL
  rows in set (0.01 sec)
```

Fig 4.3

4.schema for cloth number

mysql> desc clothno;						
Field	Туре	Null	Key	Default	Extra	
oid ctshirtno cttshirtno ctpantno ctsareeno slksareeno kurtano woollenno jeansno othersno	int(11) int(11) int(11) int(11) int(11) int(11) int(11) int(11)	YES	MUL	NULL NULL NULL NULL NULL NULL NULL NULL		
10 rows in set (0.00 sec)						

Fig 4.4

5. schema for cloth now

mysql> desc clothnow;						
Field	Туре	Null	Key		Extra	
oid ctshirtno cttshirtno ctpantno ctsareeno slksareeno kurtano woollenno jeansno	<pre>int(11) int(11) int(11) int(11) int(11) int(11) int(11) int(11) int(11) int(11) int(11)</pre>	YES	MUL	NULL NULL NULL NULL NULL NULL NULL NULL		
10 rows in set (0.00 sec)						

Fig 4.5

6. schema for profile

mysql> desc	profile;				
Field	Туре	Null	Key	 Default	Extra
uid username fname lname gender street city landmark email phno	int(11) varchar(20) varchar(20) varchar(20) varchar(10) varchar(40) varchar(20) varchar(30) varchar(20)	NO YES	PRI MUL	NULL NULL NULL NULL NULL NULL NULL NULL	auto_increment
10 rows in s	set (0.00 sec)				,

Fig 4.6

7. schema for location

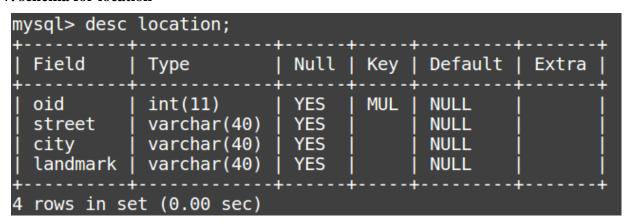


Fig 4.7

8. schema for curorder

mysql> desc cu	ırorder;				
Field	Туре	Null	Key	Default	Extra
oid uid status totalcloth totalprice deldate orddate recdate	int(11) int(11) varchar(20) int(11) double date date date	YES	MUL MUL	NULL NULL NULL NULL NULL NULL NULL NULL	
*8 rows in set					

Fig 4.8

9. schema for allorder

mysql> desc al	llorder;		+		++
Field	Туре	Null	Key	Default	Extra
oid uid totalcloth totalprice deldate orddate	int(11) int(11) int(11) double date date	NO YES YES YES YES YES	PRI MUL 	NULL NULL NULL NULL NULL NULL	auto_increment
6 rows in set	(0.00 sec))			++

Fig 4.9

5. IMPLEMENTATION CODE

5.1)ADMIN:

```
1 <?php
2 include 'conn.php';
3 session_start ();
4 $uname = $_SESSION ['un'];
6 $arr = array ();
   $arr = array ();
if (isset ( $_POST ['adsubmit'] )) {
  for($i = 0; $i < $j; $i ++) {
     $nsta = "s" . $i;
     $nrec = "r" . $i;
     $ndel = "d" . $i;
     $noid = "o" . $i;
     $noid = "o" . $i;
}</pre>
8
 9
10
11
12
13
             $status = $ POST [$nsta];
14
             $rec = $_POST [$nrec];
             $del = $_POST [$ndel];
15
             $oid = $_SESSION [$noid];
16
17
18
            if ($status == 'Ordered' || $status == 'Collection'
19
                 || $status == 'Processing' || $status == 'Dispatched'
                  || $status == 'Delivered') {
20
21
                 if (($rec != NULL && $rec < date ( "Y-m-d" ))
                      || ($del != NULL && $del < date ( "Y-m-d" )) || ($rec == NULL && $del != NULL)) {
22
23
                      array_push ( $arr, $i );
24
                 } else {
25
                      $qry16 = "update allorder set deldate='"
                      . $del . "' where oid=" . $oid . ";";
$qry17 = "update curorder set status='" . $status
26
27
                                   ',recdate='" . $rec . "',deldate='" . $del . "' where oid=" . $oid . ";";
28
                      29
30
                      $qry19 = "update curorder set status='" . $status . "' where oid=" . $oid . ";";
31
32
                      if ($del != NULL && $rec != NULL) {
33
                          if ($rec > $del) {
                               array_push ( $arr, $i );
34
35
                          } else {
36
                               $res16 = $conn->query ( $qry16 );
37
                               $res17 = $conn->query ( $qry17 );
38
39
                      } else if ($del == NULL && $rec != NULL) {
40
                          $res18 = $conn->query ( $qry18 );
41
                      } else {
                          $res19 = $conn->query ( $qry19 );
42
43
44
                      if ($status == 'Delivered') {
                           $qry20 = "delete from curorder where oid=" . $oid . ";";
45
46
                           $res20 = $conn->query ( $qry20 );
47
48
                 }
            } else {
49
50
                 array_push ( $arr, $i );
51
52
53 }
   if($arr != NULL)
        for($i=0; $i<sizeof($arr); $i++)
    echo ("<script>alert('Error at order '.$arr[$i]);</script>'");
55
56
57 ?>
50
```

Fig:5.1.1

5.2)BILLING:

```
12
13
   $paddress = $_SESSION ['paddress'];
14 $dry = $_SESSION ['dry'];
15 $wet = $_SESSION ['wet'];
16 $count = $_SESSION ['count'];
17 $sum = $_SESSION ['sum'];
18
19 for($i = 0; $i < 9; $i ++) {
      if ($dry [$i] == NULL) {
20
21
          dry [i] = 0;
22
23 }
24 for($i = 0; $i < 9; $i ++) {
25
      if ($wet [$i] == NULL) {
26
          wet [$i] = 0;
27
28 }
29
30 if (isset ( $_POST ['r'] )) {
31
      if ($_POST ['r'] == "padd") {
          if ($paddress != NULL) {
32
              $qry5 = "insert into allorder values (DEFAULT," . $uid . ","
33
34
                      . $count . "," . $sum . ",NULL,curdate());";
              $res5 = $conn->query ( $qry5 );
35
36
              if ($res5 === TRUE) {
37
                  $qry6 = "select max(oid) from allorder where uid = " . $uid . ";";
38
                  $res6 = $conn->query ( $qry6 );
39
                  $row6 = $res6->fetch_assoc ();
40
41
                  $qry7 = "insert into curorder values (" . $row6 ['max(oid)']
42
                         . "," . $uid . ",'Ordered'," . $count . "," . $sum .
                         ",NULL,curdate(),NULL);";
43
44
                  $res7 = $conn->query ( $qry7 );
45
                 46
47
48
49
50
51
52
53
                  $res8 = $conn->query ( $qry8 );
54
55
                  $res9 = $conn->query ( $qry9 );
56
57
                 58
59
60
61
                  $res10 = $conn->query ( $qry10 );
                  header ( "location: User.php" );
62
63
              }
          } else {
64
              header ( "location: User.php" );
65
          }
66
67
       } else {
68
          $qry5 = "insert into allorder values (DEFAULT," . $uid . "," . $count
                  . "," . $sum . ",NULL,curdate());";
```

Fig:5.2.1

5.3)CONNECTION:

```
1 <?php
2 $conn = new mysqli ( "localhost:3306", "root", "root", "Project" );
3 if ($conn->connect_error) {
    echo ('<script>alert("Failed..!!");</script>');
5 }
6 ?>
```

Fig:5.3.1

5.4)USER CONTROL:

```
1 <?php
2 include 'conn.php';
    session_start ();
 4 if (isset ( $ POST ['s1'] )) {
        $fname = $_POST ['firstname'];
$lname = $_POST ['lastname'];
 6
        $uname = $_POST ['uname'];
        $email = $_POST ['email'];
 8
        $passw = md5 ( $_POST ['passw'] );
 9
10
        $phno = $_POST ['phno'];
11
        $qry1 = "insert into loginuser values ('" . $uname . "','" . $passw . "');";
$qry2 = "insert into profile values (DEFAULT,'" . $uname . "','" . $fname . "','"
. $lname . "',NULL,NULL,NULL,"" . $email . "','" . $phno . "');";
12
13
14
15
16
        if ($conn->query ( $qry1 ) === TRUE) {
             $conn->query ( $qry2 );
17
18
        } else {
             echo ("<script>alert('Username already taken..!!');</script>'");
19
20
21
   } elseif (isset ( $_POST ['s2'] )) {
        $uname = $ POST ['uname'];
22
23
        $passw = $_POST ['passw'];
24
        $qry3 = "select * from loginuser where username = '"
. $uname . "' and password = '". md5 ( $passw ) . "';";
25
26
        $res = $conn->query ( $qry3 );
27
28
        if ($res->num_rows == 1) {
29
             $row = $res->fetch_assoc ();
30
             $_SESSION ['un'] = $row ['username'];
31
             header ( "location: User.php" );
32
        } else {
             echo '<script>alert("Invalid Username or Password..!!");</script>';
33
34
35 } elseif (isset ( $ POST ['s3'] )) {
        $uname = $_POST ['uname'];
$passw = $_POST ['passw'];
36
37
38
        39
40
        $res = $conn->query ( $qry3 );
41
42
        if ($res->num rows == 1) {
43
             $row = $res->fetch_assoc ();
44
             $ SESSION ['un'] = $row ['username'];
             header ( "location: Admin.php" );
45
46
        } else {
47
             echo '<script>alert("Admin not found..!!");</script>';
48
49 }
50 $conn->close ();
51 ?>
```

Fig:5.4.1

5.5)LOGOUT:

```
1 <?php
2 session_start ();
3 if (session_destroy ()) {
4    header ( "Location: Home.php" );
5 }
6 ?>
```

Fig:5.5.1

5.6)USER:

```
2 include 'conn.php';
    3 session_start ();
     4 $uname = $ SESSION ['un'];
    6 $qry = "select uid from profile where username = '" . $uname . "'";
    7 $res = $conn->query ( $qry );
8 if ($res->num_rows == 1) {
                               $row = $res->fetch_assoc ();
  10
                              $uid = $row ['uid'];
  11 }
  $tname = $_POST ['tastname'];
$gender = $_POST ['gender'];
$street = $_POST ['street'];
$city = $_POST ['city'];
$landmark = $_POST ['landmark'];
$email = $_POST ['email'];
$phno = $_POST ['phno'];
$passey = $_POST ['phoc'];
  16
  17
  18
  19
  20
  21
                              $passw = $_POST ['passw'];
  22
  23
                            26
  28
  29
  30
                                              $res13 = $conn->query ( $qry13 );
  31
                             } else {
  32
                                              echo ("<script>alert('Invalid Entry');</script>'");
  33
                              if ($passw != NULL) {
  34
                                              $passw = md5 ( $_POST ['passw'] );
$qry14 = "update loginuser set passw = '" . $passw . "' where uid = " . $uid . ";";
$res14 = $conn->query ( $qry14 );
  35
  36
  37
  38
                                              if(!$res14) echo ("<script>alert('Error...Password not Changed..!!');</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>'");</script>
  39
 40 }
 41
42 ?>
```

Fig:5.6.1

5.7) ORDER:

```
178
179
                    $qry2 = "select * from pricecloth where wash = 'dry';";
                    $qry3 = "select * from pricecloth where wash = 'wet';";
180
181
                    $rdry = $conn->query ( $qry2 );
182
                    $rwet = $conn->query ( $qry3 );
183
                    $dryrow = $rdry->fetch_assoc ();
184
                    $wetrow = $rwet->fetch assoc ();
185
                    $tr = array (
                            "Cotton Shirt"
186
187
                            "Cotton Tshirt",
                            "Cotton Pant",
188
189
                            "Cotton Saree",
                            "Silk Saree",
190
                            "Kurta",
191
                            "Woollen",
192
                            "Jeans",
193
194
                            "Others"
195
                    );
196
                    $i = 0;
197
                    sum = 0;
198
                    scount = 0;
199
                    foreach ( $dryrow as $x => $x_value ) {
200
                        if ($x_value == "dry")
201
                            continue;
                        if ($dry [$i]) {
202
                            echo ("
203
                                            " . $tr [$i] . "
204
205
                                            Dry
                                            " . $dry [$i] . "" . $dry [$i] * $x_value . "
206
207
208
                                        ");
                            $sum += $dry [$i] * $x_value;
209
210
                            $count += $dry [$i];
211
                            $i ++;
212
                        } else
213
                            $i ++;
214
215
                    $i = 0:
216
                    foreach ( $wetrow as $x => $x value ) {
217
                        if ($x_value == "wet")
218
                            continue;
219
                        if ($wet [$i]) {
220
                            echo ("
221
                                            " . $tr [$i] . "
222
                                            Wet
                                            " . $wet [$i] . "
223
                                            " . $wet [$i] * $x_value . "
224
225
                                        ");
                            $sum += $wet [$i] * $x_value;
226
227
                            $count += $wet [$i];
228
                            $i ++;
                        } else
229
230
                            $i ++;
231
232
                    $ SESSION ['sum'] = $sum;
233
                    $ SESSION ['count'] = $count;
234
```

Fig:5.7.1

6)SNAPSHOTS

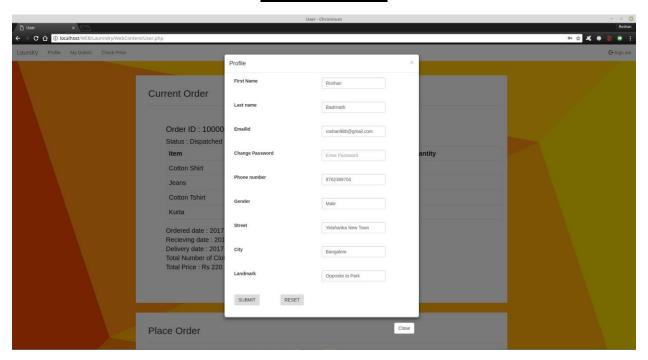


Fig:6.1 USER PROFILE

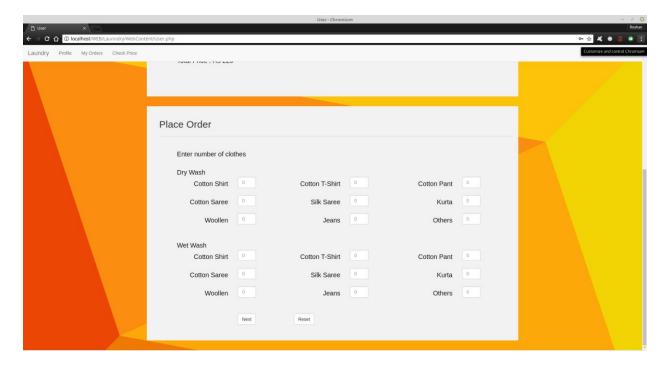


Fig:6.2 USER ORDER

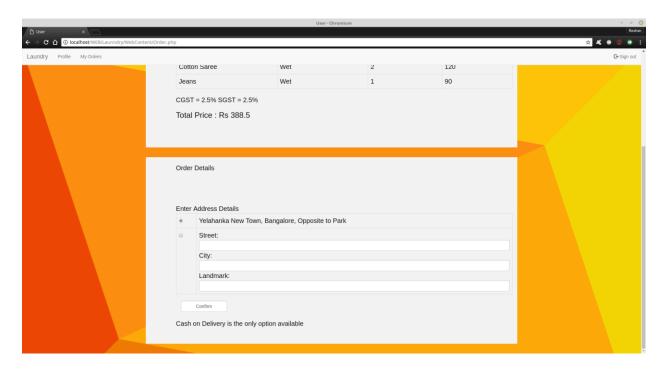


Fig:6.3 USER DETAILS

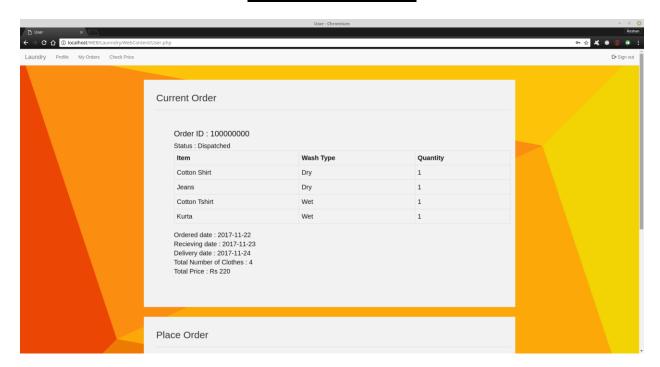


Fig:6.4 USER CURRENT ORDER

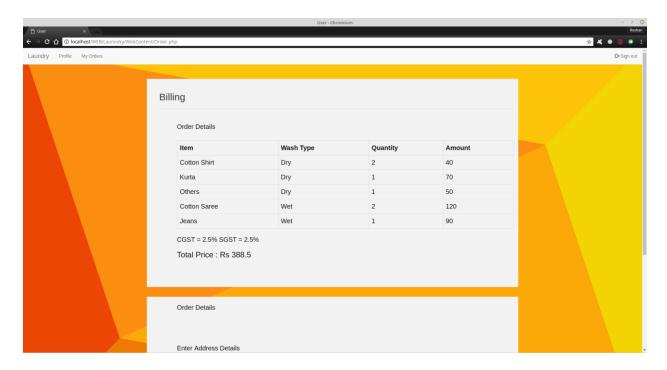


Fig:6.5 USER BILL

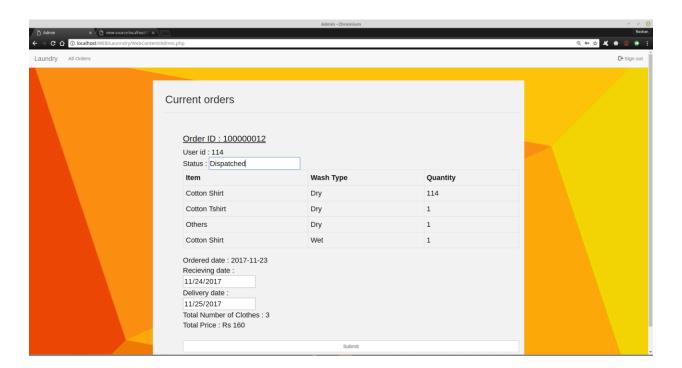


Fig:6.6 ADMIN CURRENT ORDER

7. CONCLUSION

This project has given us an ample opportunity to design, code, test and implements an application. This has helped in putting into practice of various Software Engineering principles and Database Management concepts like maintaining integrity and consistency of data. Further, this has helped us to learn more about MySQL, HTML, PHP and Personal Web Server applications.

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