

CERTIFICATE OF COMPLETION



The certificate is personalized to

Zain raza

Usama

The successfully design & developed on **LAB
AUTOMATION**

E-Project of HDSE 1 (3rd Semester)

APTECH Worldwide Computer Education

Shahrah-e-Faisal Center, Karachi.

LAB AUTOMATION

LAB AUTOMATION

Group Members

Design & Developed By

Zain Raza

Usama

Supervision By

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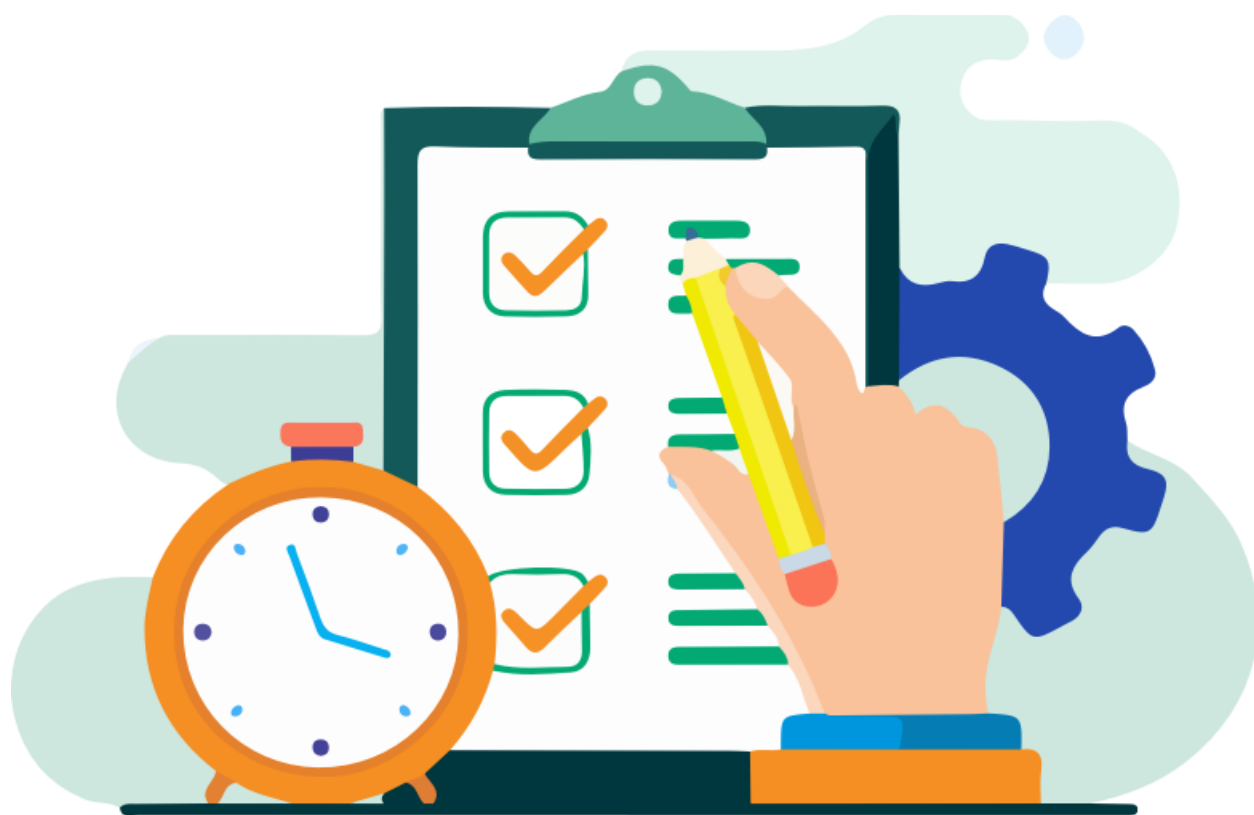
ACKNOWLEDGMENT

Acknowledgment is not more formality but a genuine opportunity to thanks all Those people without that active support in this project would not be able to be Possible We are thankful to almighty Allah with his grace and mercy for giving us strength Good sense and confidence to complete the project successfully we presenting on “Lab Automation” in your hands, we have tried over best to take all relevant and important topics in consideration so that this project may become more effective and a batter outlook to come. This project has been developed with the help of “PHP / MYSQL / JS / AJAX” I would like to acknowledge all those who have given moral support and helped me to Make this project a success. I wish to express my gratitude to **SIR ARSALAN** For his valuable guidance and support for the completion of this project.

And finally. I would to offer many thanks to all my colleagues for their valuable

Suggestions and constructive feedback.

Requirement



LAB AUTOMATION

Introduction : –

The SRS Electrical appliances are the manufacturers of some electrical products like switch gears, fuses, capacitors, resistors, etc.... These products after manufactured they are sent for testing where the product is subjected to some testing conditions, and then after the testing is successful at their laboratories they are sent to CPRI for further testing process, so that they can get it approved from CPRI and then release the product into the market. If the testing fails then the product is sent back for re-manufacturing it and then they are again subjected to tests.

Existing Scenario : –

Initially after the product is manufactured the companies testing department tests the product and maintains the details of the testing done like the type of testing and as well the result of the testing that the product is subjected to. Actually the testing process usually depends on the type of the product to be tested.

Actually the testing records are maintained in papers and they mark how many products are sent for testing and as well how many are tested successfully and as well how any are not. Actually each product that is manufactured is allocated with some product id (10 digit code which includes the product code, the revise of the product, and the manufacturing number) and the records of testing are maintained based on the product id so that it becomes easier to track which product is tested successfully and which has failed the testing, and what all are needed to be done to over come the defaults, so that the products that are failed when subjected to tests can be sent for re-making.

It has become a tedious job as there is no automation in the process and as well it is a time consuming process for maintaining the records of testing and filing it, as it has to be shown to the concerned department, as based on the results of testing they

decide whether to send the product for further testing process or for re-making the product.

Some times misplacing of the records or the products take place or it might even happen like the record of one product is entered for the other, etc..... as in the testing department itself there are various departments which are based on the type of testing, and a product need two or more types of testing. As soon as a testing is finished in one department it is to be sent to the other department that performs the other type of testing.

Proposed Solution : –

In order to avoid the confusion in maintaining the records, misplacement of the records, and to reduce the time consumption in entering and fetching the details they want an application to be built that holds all the information of the testing like the type of testing conducted, result and even they should be able to capture the type of the testing done.

They say that they want the application in modular and sub modular form depending on the type of the testing and as well based on the type of the product. One should be able to access the product based on the product id or testing id. As soon as a testing record is entered the unique test id (12 digit code which includes the product code, the revise of the product, and as well the testing code and the testing roll number) should be generated automatically. They also say that they want an advanced search option through which they can fetch the details at an ease.

They also want the application to hold the detailed remarks where one can enter the testing is done based on which criteria, and what is the output seen for that testing, etc....

► Non-Financial :

- The details of the products and the testing like the product code, product id, testing id, the revise, the testing performed, remarks provided, the result of the testing, etc.... are needed to be maintained in a separate database.
- Product id should be a unique 10 digit code as described by the manufacturing unit and the testing id should be a unique 12 digit code, which should be automatically generated.
- An advanced search option is to be included.
- The application should contain a modular and the sub-modular form based on the type of the product and as well based on the type of the testing.
- One should be able to capture the detailed description of the remarks that include about the testing and what should be the output for that testing and the result of testing performed and as well the remarks if any for that particular product.
- One should be able to check the status of the testing.
- After entering the record, it should even ask for the name of the person (s) who has tested the product.

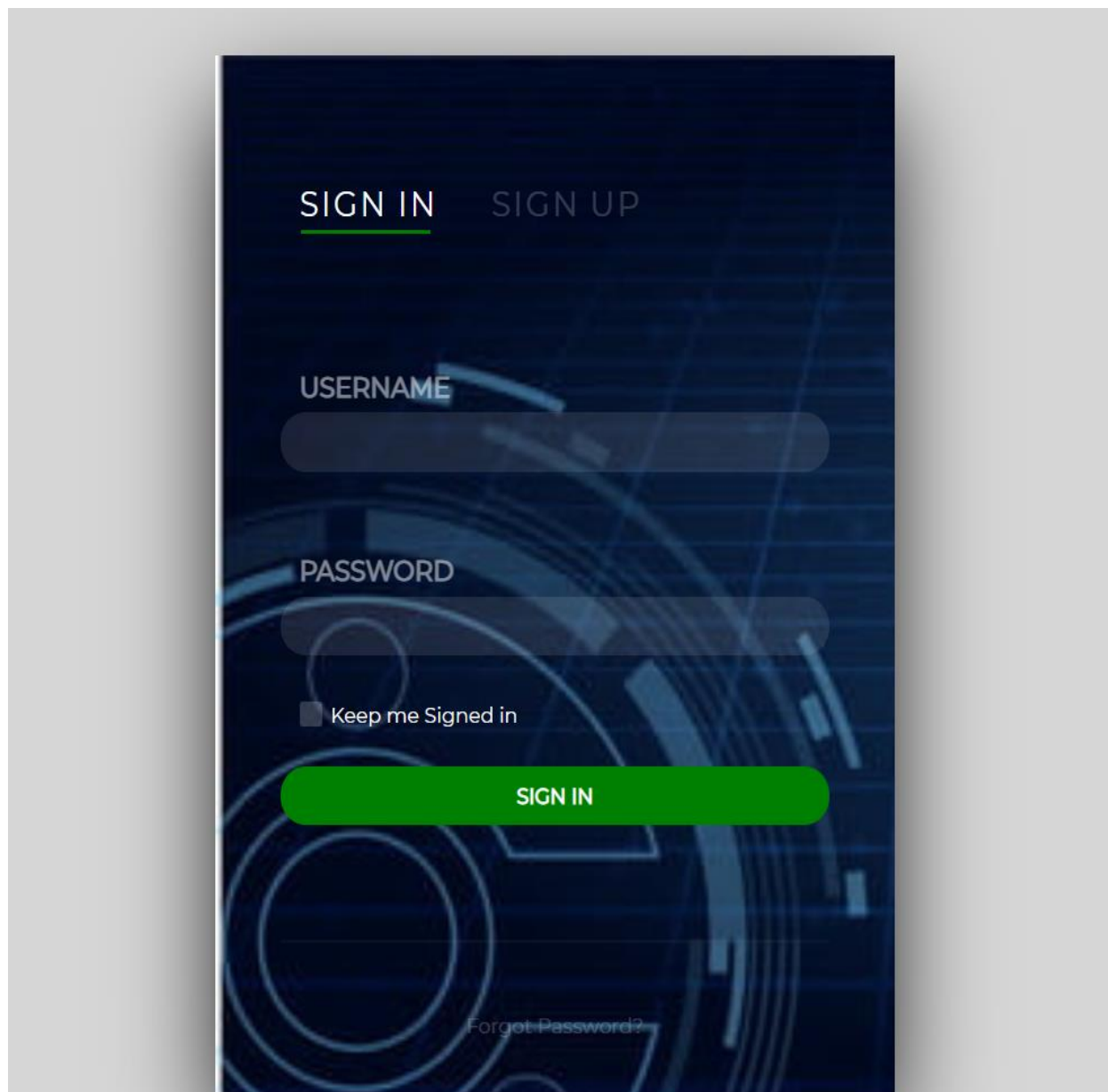
► Financial :

After the product is subjected for testing and if it fails it is to be sent for re-making else it will be sent for further testing procedures that are held by the CPRI and get it approved from them so as to release the product in to the market.

Functional Requirements : –

- The details are needed to be captured based on the type of the testing and as well based on the product.
- The status of the testing and as well the detailed remarks is also needed to be captured.
- An advanced search option is needed to be included so that one can fetch the details of the testing at an ease.

LOGIN PANNEL:

A login panel UI mockup with a dark blue background featuring a faint, glowing circular pattern. The panel is centered and has a white border. It contains a 'SIGN IN' link with a green underline, a 'SIGN UP' link, a 'USERNAME' label above a text input field, a 'PASSWORD' label above a text input field, a checkbox labeled 'Keep me Signed in', a green 'SIGN IN' button, and a 'Forgot Password?' link at the bottom right.

[SIGN IN](#) [SIGN UP](#)

USERNAME

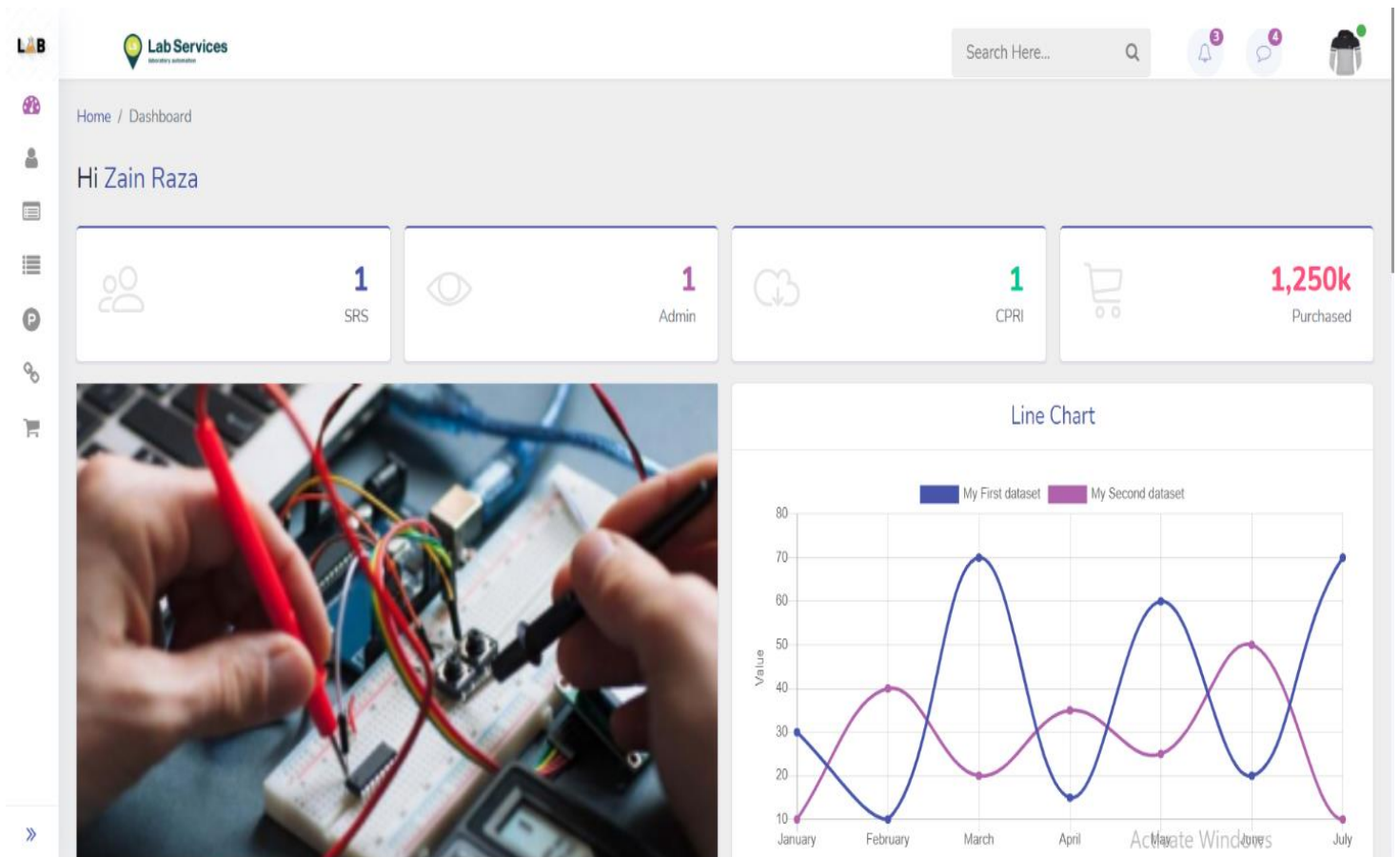
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☐ Keep me Signed in

[SIGN IN](#)

[Forgot Password?](#)

MAIN PAGE:



LAB AUTOMATION

USER REGISTERED:

LAB AUTO

Dashboard

users

▼

add

view

Product List

Product Category

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Products

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Testing

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Market Product

Home / User Registered

User Registered

Enter Full Name

Enter Your Email

Enter Your Password

Select One

▼

Choose Files


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Submit




LAB AUTOMATION

VIEW USER ACCOUNT:

LAB


Lab Services
laboratory automation










Search Here... 



Home / View User Accounts


View User Accounts


Search Here... 




Id	Name	Email	Password	Role	Status	Images	Date	
3	hasnain	zain@gmail.com	123	SRS	Allow		2021-03-13 14:18:54	 
4	Zain Raza	zainr8943@gmail.com	1234	Admin	Allow		2021-03-13 14:29:22	 
5	saeed	saeed@gmail.com	za	CPRI	Allow		2021-03-13 14:29:58	 

EDIT:

LAB

Lab Services
Memory automation

Search Here... 



Home / Edit

Edit


Choose Files


No file chosen


Submit


LAB AUTOMATION


VIEW PRODUCT LIST:






Search Here... 












Home / View Products List

View Products List

Search Here... 

Id	User Name	Product Image	Product Name	Product Code	Product Catigory	Description	Date	Status	Action
2	Zain Raza		Electric Fuse-1	2136547897	Fuse	Checking	2021-03-14 01:23:48	Ready	
3	Zain Raza		Light	1021548796	Bulb	testing	2021-03-16 00:35:44	Ready	

PRODUCT CATIGORY:

LAB AUTO

Dashboard

users

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Product List

Product Catigory

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Add-catlog

Category List

Products

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Testing

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Market Product

Search Here...

3

4

Home / Product Catigory

Product Catigory

Enter Product Name

Enter Product Description

Submit

LAB AUTOMATION

PRODUCT CATEGORY LIST:

LAB AUTO

Dashboard

users >

Product List

Product Category ▾


Add-catlog

Category List

Products >


Testing >

Market Product

Search Here... 


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4



Home / Product Category List

Product Category List

Search Here... 

Id	User Name	Category Name	Description	Date	
1	Zain Raza	Bulb	testing	2021-03-13 23:33:32	 
2	Zain Raza	Fuse	testing	2021-03-13 23:36:55	 

ADD PRODUCT :

LAB AUTO

Dashboard

users

>

Product List

Product Category

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Products

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Testing

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Market Product

Home / Add Product

Add Product

Enter Product Name

Enter Product Code (10 digits)

Enter Product Description

Select One ▾ ▾

Choose File

No file chosen

Submit

VIEW PRODUCT LIST:

LAB AUTO

Dashboard

users >

Product List

Product Category >

Products

Add-product

View Products List

Trash Products

Testing >

Market Product

Search Here...



3

4

Home / View Products List

View Products List


Search Here...


Id	User Name	Product Image	Product Name	Product Code	Product Category	Description	Date	Action
2	Zain Raza		Electric Fuse-1	2136547897	Fuse	Checking	2021-03-14 01:23:48	<div></div> <div></div>
3	Zain Raza		Light	1021548796	Bulb	testing	2021-03-16 00:35:44	<div></div> <div></div>


LAB


 AUTOMATION


EDIT PRODUCT:




 **Lab Services**
laboratory automation











Home / Edit Product

Edit Product

Choose File

No file chosen

Submit

TEST CATIGORY:

LAB AUTO

Dashboard

users

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Product List

Product Catigory

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Products

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Testing

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Testing Catigory

start Testing

Testing list

Market Product

Search Here...

3

4

Home / Test Catigory

Test Catigory

Enter Testing Code

Enter Testing type

Submit

LAB AUTOMATION

START TESTING LIST:

LAB

Lab Services

laboratory automation

Search Here...

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Home / Start Testing List

Start Testing List

Search Here...

Q

Id	User Name	Product Name	Product Catigory	Product Code	Product Details	Date	Testing Type	Action
2	Zain Raza	Electric Fuse-1	Fuse	2136547897	Checking	2021-03-14 01:23:48	Level-1	Start Testing

Id	User Name	Product Name	Product Catigory	Product Code	Product Details	Date	Testing Type	Action
3	Zain Raza	Light	Bulb	1021548796	testing	2021-03-16 00:35:44	Level-1	Start Testing

TESTING LIST:

LAB AUTO

Dashboard

users >

Product List

Product Category >

Products >

Testing >

Market Product

Search Here...

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Home / Testing List

Testing List

Search Here...

Q

Id	Product Name	Product Category	Product detail	Testing Code	Testing Type	Date	Action
2	Electric Fuse-1	Fuse	Checking	1012453698	Level-1	2021-03-14 13:57:58	<div>i</div>
3	Light	Bulb	testing	1012453698	Level-1	2021-03-14 13:57:58	<div>i</div>

MARKET PRODUCT:

LAB

Lab Services

laboratory automation

Home / Market Product

Market Product

Search Here...

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Home / Market Product

Market Product

Search Here...

Q

Id	User Name	Product Image	Product Name	Product Code	Product Catigory	Description	Date	Status	Action
2	Zain Raza		Electric Fuse-1	2136547897	Fuse	Checking	2021-03-14 01:23:48	Approved	
3	Zain Raza		Light	1021548796	Bulb	testing	2021-03-16 00:35:44	Approved	

PRODUCT DETAILS:

LAB

Lab Services

laboratory automation

Search Here...

Q

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Home / Products Details

Products Details

Search Here...

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Product Name	Product add-User	Product Code	Product Date	Product Details	Category Name	Category add-user	Category Description	Product Status
Electric Fuse-1	Zain Raza	2136547897	2021-03-14 01:23:48	Checking	Fuse	Zain Raza	testing	Ready

Send For Test

TESTING DETAILS:

LAB

Lab Services

laboratory automation

Search Here...

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Home / Testing Details

Testing Details

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Product Name	Product add-User	Product Details	Catigory Name	Catigory add-user	Catigory Description	Testing code	Testing Date	Result
Electric Fuse-1	Zain Raza	Checking	Fuse	Zain Raza	testing	1012453698	2021-03-14 13:57:58	Approved

Done

SOURCE CODE



LAB AUTOMATION

```

main.php > over_store
1  <?php session_start();
2
3  class over_store{
4
5      function con(){
6          $con = mysqli_connect('localhost','root','','lab_automation');
7          return $con;
8      }
9
10
11
12     function user_account(){
13         if(isset($_POST['btn-user'])){
14
15             $a = $_POST['fname'];
16
17             $c = $_POST['email'];
18             $d = $_POST['psw'];
19
20             $f = $_POST['role'];
21             $img = $_FILES['img']['name'];
22
23             $qu = mysqli_query($this->con(),"INSERT INTO `user_register`
24             ( `u_fullname`, `u_email`, `u_psw`, `u_role`, `u_img`) VALUES ('$a','$c','$d','$f','$img')");
25
26             move_uploaded_file($_FILES['img']['tmp_name'], "assets/images/user/".$img);
27         }
28     }
29
30
31     function user_login(){
32
33         if(isset($_POST['btn_login'])){
34
35
36             $email = $_POST['username'];
37             $psw = $_POST['psw'];
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```

```

function user_data(){
    $qu = mysqli_query($this->con(),"SELECT * FROM user_register WHERE u_email = '". $_SESSION['register']."' ");
    return $qu;
}

function add_catlog(){
    if(isset($_POST['btn-catlog'])){
        $a = $_POST['c-name'];
        $b = $_POST['c-des'];

        $query = mysqli_query($this->con(),"INSERT INTO `product_category` ( `c_name`, `c_des`) VALUES ('$a','$b')");

        if($query){
            echo ('<script>alert("Done")</script>');
        }
        else{
            echo ('<script>alert("This Catigory is already Added....!!")</script>');
        }
        return $query;
    }
}

function catlog_list(){
    $query = mysqli_query($this->con(),"SELECT * FROM `product_category`");
    return $query;
}

```

```

function ad_products(){
    if(isset($_POST['btn-product'])){
        $a = $_POST['p-name'];
        $img = $_FILES['p-img']['name'];
        $b = $_POST['p-code'];
        $d = $_POST['p-catlog'];

        $c = $_POST['p-des'];

        // $im = json_encode($img);
        // $txt = $_POST['p-dec'];

        $query = mysqli_query($this->con(),"INSERT INTO `products` ( `p_name`, `p_img`, `p_code`, `p_cid`, `p_des`) VALUES ('$a','$img','$b','$d','$c')");
        move_uploaded_file($_FILES['p-img']['tmp_name'], "assets/images/product/".$img);

        // $count = count($img);
        // for($i=0; $i< $count ; $i++){
        //     $tmp = $_FILES['p-img']['tmp_name'][$i];
        //     move_uploaded_file($tmp, "assets/images/product/".$img[$i]);
        // }
        // return $query;
    }
}

```

```

function add_edit_user(){
    if(isset($_POST['btn-edit-user'])){

        $pid = $_GET['id'];
        $a = $_POST['fname'];
        $b = $_POST['email'];
        $c = $_POST['psw'];

        $img = $_FILES['img']['name'];

        if($img == ''){
            $im = $_POST['img'];
        }
        else{
            $im = $_FILES['img']['name'];
        }

        $query = mysqli_query($this->con(),
            "UPDATE `user_register` SET `u_fullname`='$a',`u_email`='$b',`u_psw`='$c',`u_img`='$im' WHERE u_id=$pid"
        );

        move_uploaded_file($_FILES['img']['tmp_name'], "assets/images/product/".$im);
        if($query){
            echo('<script>window.location.href="view-user-account.php"</script>');
        }
        return $query;
    }
}

```

```

function add_edit_pro(){
    if(isset($_POST['btn-edit-product'])){

        $pid = $_GET['pid'];
        $a = $_POST['p-name'];
        $b = $_POST['p-code'];
        $c = $_POST['p-des'];
        $d = $_POST['p-catlog'];

        $img = $_FILES['p-img']['name'];

        if($img == ''){
            $im = $_POST['img'];
        }
        else{
            $im = $_FILES['img']['name'];
        }

        $query = mysqli_query($this->con(),
            "UPDATE `products` SET `p_name`='$a',`p_code`='$b',`p_des`='$c',`p_cid`='$d',`p_img`='$im' WHERE p_id=$pid"
        );

        move_uploaded_file($_FILES['img']['tmp_name'], "assets/images/product/".$im);
        if($query){
            echo('<script>window.location.href="view-product.php"</script>');
        }
        return $query;
    }
}

```

```

function view_pro(){
    $qu = mysqli_query($this->con(),"SELECT p.p_id,p.p_name,p.p_img,p.p_code,c.c_id,c.c_name,c.c_des,p.p_des,p.p_status,p.p_datetime FROM
    `products` AS p LEFT JOIN product_category AS c ON p.p_cid=c.c_id where p.p_status='Ready'");
    return $qu;
}

function trash_pro(){
    $qu = mysqli_query($this->con(),"SELECT p.p_id,p.p_name,c.c_name,p.p_stock,p.p_price,p.p_sale_price,p.p_img,p.p_datetime
    FROM `product` AS p LEFT JOIN catlog AS c ON p.p_cid=c.c_id where p.p_status=2");
    return $qu;
}

function move_to_trash(){
    $a = $_GET['id'];
    $qu = mysqli_query($this->con(),"UPDATE `product` SET p_status=2 WHERE p_id=$a");
    return $qu;
}

function edit_pro($a){
    $qu = mysqli_query($this->con(),"SELECT * FROM products AS p LEFT JOIN product_category AS c ON p.p_cid=c.c_id where p_id=$a");
    return $qu;
}

function edit_user($a){
    $qu = mysqli_query($this->con(),"SELECT * FROM user_register where u_id=$a");
    return $qu;
}

```

Activate Windows

Go to Settings to activate W

```

function edit_product(){
    $qu = mysqli_query($this->con(),"SELECT * FROM products AS p LEFT JOIN product_category AS c ON p.p_cid=c.c_id ");
    return $qu;
}

function view_accounts(){
    $query = mysqli_query($this->con(),"SELECT * FROM `user_register`");
    return $query;
}

function total_admin(){
    $qu = mysqli_query($this->con(),"SELECT COUNT(u_role) as Total_Admin FROM `user_register` WHERE u_role = 'Admin'
    ");
    return $qu;
}

function total_srs(){
    $qu = mysqli_query($this->con(),"SELECT COUNT(u_role) as Total_srs FROM `user_register` WHERE u_role = 'SRS'
    ");
    return $qu;
}

function total_cpri(){
    $qu = mysqli_query($this->con(),"SELECT COUNT(u_role) as Total_cpri FROM `user_register` WHERE u_role = 'CPRI'
    ");
    return $qu;
}

```

```

function testing_type() {
    if(isset($_POST['btn-testing'])){
        $a = $_POST['t-code'];
        $b = $_POST['t-type'];

        $query = mysqli_query($this->con(),"INSERT INTO `test_product` ( `t_code`, `t_type`) VALUES ('$a','$b')");
        if($query){
            echo ('<script>alert("Done")</script>');
        }
        else{
            echo ('<script>alert("This Testing Code is already Exits....!!")</script>');
        }
        return $query;
    }
}

function sel_testing(){
    $query = mysqli_query($this->con(),"SELECT * FROM `test_product`");
    return $query;
}

}

$obj = new over_store;

// if(isset($_POST['btn-product'])){
//     $obj->add_product();
// }

// if(isset($_GET['btn_login'])){
//     $obj->user_login();
// }

```

```

<?php include('header.php');
$ob->ad_products();
$ob->add_edit_pro();

?>
<div class="main-content">

    <!-- content -->
    <div class="container-fluid content-top-gap">
<?php
if(isset($_GET['pid'])){
    $a = $_GET['pid'];
    foreach($ob->edit_pro($a) as $pro){
        echo('<!-- breadcrumbs -->');
        <nav aria-label="breadcrumb" class="mb-4">
            <ol class="breadcrumb my-breadcrumb">
                <li class="breadcrumb-item"><a href="index.php">Home</a></li>

                <li class="breadcrumb-item active" aria-current="page">Edit Product</li>
            </ol>
        </nav>
        <!-- //breadcrumbs -->

        <!-- card heading -->
        <div class="cards_heading">
            <h3>Edit Product</h3>
        </div>
        <!-- //card heading -->

        <!-- content block style 1-->
        <div class="card card_border p-lg-5 p-3 mb-4">
            <div class="card-body py-3 p-0">
                <form method="post" enctype="multipart/form-data">
                    <div class="row">

```

```

<?php include('main.php');
if(!$_SESSION['register']){
    header("location:login.php");
}
foreach($obj->user_data() as $user){
    $name = $user['u_fullname'];
}
?>

<!doctype html>
<html lang="en">

<head>
    <!-- Required meta tags -->
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">

    <title>Lab Automation</title>

    <!-- Template CSS -->
    <link rel="stylesheet" href="assets/css/style-starter.css">

    <!-- google fonts -->
    <link href="//fonts.googleapis.com/css?family=Nunito:300,400,600,700,800,900&display=swap" rel="stylesheet">
</head>

<body class="sidebar-menu-collapsed">
    <div class="se-pre-con"></div>
<section>
    <!-- sidebar menu start -->
    <div class="sidebar-menu sticky-sidebar-menu">

        <!-- logo start -->
        <div class="logo">
            <h1><a href="index.php">LAB AUTO</a></h1>
        </div>
    </div>

```



```

<div class="row">
  <div class="col-xl-6 pr-xl-2">
    <div class="row">
      <div class="col-sm-6 pr-sm-2 statistics-grid">
        <div class="card card_border border-primary-top p-4">
          <i class="lnr lnr-users"> </i>
          <h3 class="text-primary number">
            <?php
              // foreach($ob->total_pro() as $to){
              //   echo $to['total'];
              // }
              $total = mysqli_fetch_array($ob->total_srs(),MYSQLI_ASSOC)['Total_srs'];
              echo $total;
            ?>
          </h3>
          <p class="stat-text">SRS</p>
        </div>
      </div>
      <div class="col-sm-6 pl-sm-2 statistics-grid">
        <div class="card card_border border-primary-top p-4">
          <i class="lnr lnr-eye"> </i>
          <h3 class="text-secondary number"><?php
              // foreach($ob->total_admin() as $admin){
              //   echo($admin);
              // }
              $total = mysqli_fetch_array($ob->total_admin(),MYSQLI_ASSOC)['Total_Admin'];
              echo $total;
            ?></h3>
          <p class="stat-text"> Admin</p>
        </div>
      </div>
    </div>
  </div>
</div>

```

🐞 logout.php

```

1  <?php session_start();
2
3  session_destroy();
4  header("location:login.php");
5
6
7  ?>

```

```

        </tr>
    </thead>

    <tr>
        <td>'. $data['p_name'].'</td> ');

        foreach($ob->user_data() as $user){
            echo('<td>'. $user['u_fullname'].'</td>

            <td>'. $data['p_code'].'</td>
            <td>'. $data['p_datetime'].'</td>

            <td>'. $data['p_des'].'</td>
            <td>'. $data['c_name'].'</td>
            ');

            foreach($ob->user_data() as $user){
                echo('<td>'. $user['u_fullname'].'</td>

                <td>'. $data['c_des'].'</td>
                <td>'. $data['p_status'].'</td>
            <td>

            <a href="Start-testing.php?pid=' . $data['p_id'] . '"><button class="btn btn-warning ">Send For Test</button></a>

            </td>

        </tr>

    ');

```

```

<th>Id</th>

<th>User Name</th>
<th>Product Image</th>
<th>Product Name</th>
    <th>Product Code</th>
    <th>Product Catigory</th>
    <th>Description</th>
    <th>Date</th>
    <th>Status</th>

    <th>Action</th>

</tr>
</thead>
<tbody>

    <?php
    foreach($ob->view_pro() as $view){
        echo('
        <tr>
            <td>'. $view['p_id'].'</td> ');
            foreach($ob->user_data() as $user){
                echo('<td>'. $user['u_fullname'].'</td>
            <td></td>
            <td>'. $view['p_name'].'</td>

            <td>'. $view['p_code'].'</td>
            <td>'. $view['c_name'].'</td>
            <td>'. $view['p_des'].'</td>

            <td>'. $view['p_datetime'].'</td>
            <td>'. $view['p_status'].'</td>
            <td>

```

```

<?php include('header.php');
$obj->add_product();
$obj->add_edit_product();

?>
<div class="main-content">

    <!-- content -->
    <div class="container-fluid content-top-gap">

        <?php
if(isset($_GET['pid']))
{
    $a = $_GET['pid'];
    foreach($obj->edit_pro($a) as $data){

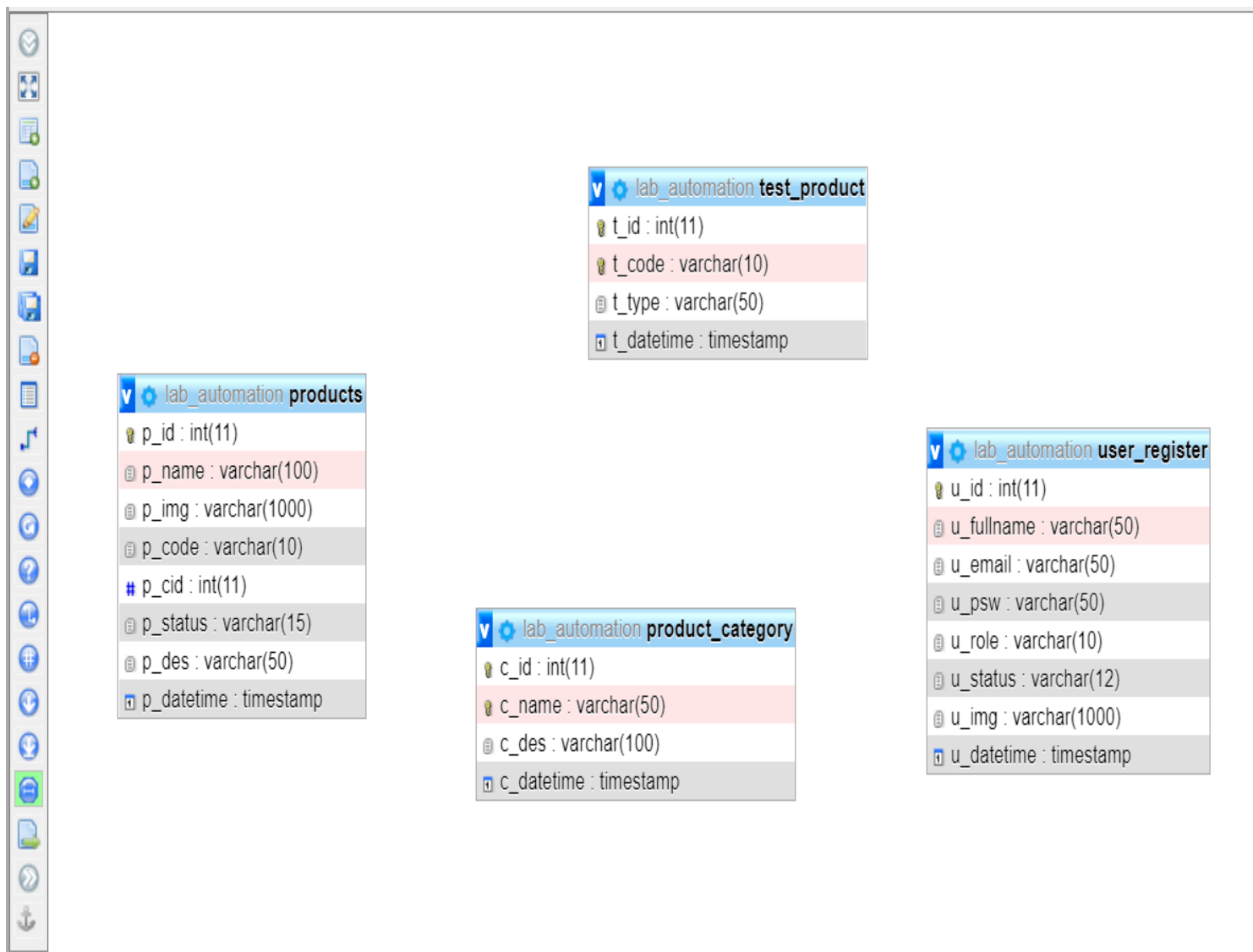
        echo('
        <!-- breadcrumbs -->
        <nav aria-label="breadcrumb" class="mb-4">
            <ol class="breadcrumb my-breadcrumb">
                <li class="breadcrumb-item"><a href="index.php">Home</a></li>

                <li class="breadcrumb-item active" aria-current="page">Edit Product</li>
            </ol>
        </nav>
        <!-- //breadcrumbs -->
        <!-- card heading -->
        <div class="cards_heading">
            <h3>Edit Products</h3>
        </div>
        <!-- //card heading -->

```

ER-DIAGRAM







LAB AUTOMATION