**Explain Back-End of Code**

1. Process in Controller file

* Book controller file
* View and login
* This code is when we access to our project it will show the form login to login into our system and when we click on button login and success it will show the view of book.

$data = array();

   booking\_book($data);

   function booking\_book(&$data)

   {

    $function = 'login';

    if(isset($\_GET['action'])){

      $function = $\_GET['action'];

    }

    $function($data);

  }

   function view(&$data){

           $data['view'] = model\_view();

           $data['page'] = "book/view";

     }

   function login(&$data){

           $data['page'] = "login/login";

     }

     function form\_login(&$data){

       session\_start();

       $data['loginForm'] = m\_login($\_POST);

       foreach($data['loginForm'] as $key => $login){

         if($login['username'] == $\_SESSION['username'] && $login['password'] == $\_SESSION['password']){

           $data['page'] = "book/view";

           $data['view'] = model\_view();

         }else{

          $data['page'] = "login/login";

         }

       }

     }

* This code to edit data in book controller file
* This function is use to edit data in book view

function edit(&$data){

  $data['edit\_data'] = m\_detail();

  $data['page']= "book/edit";

}

function edit\_data(){

  $edit\_data = m\_edit($\_POST);

  if($edit\_data) {

    $action = "view";

  }else{

    $action = "edit";

  }

  header("Location: index.php?action=$action");

}

* This code to delete book field in controller file
* This function is use to delete data in book view

function delete(&$data){

    $delete\_data = m\_delete();

    if($delete\_data){

        $action = "view";

    }else{

        echo " Cannot Delete";

    }

    header("Location:index.php?action=$action");

 }

 function add(&$data){

  $data['page'] = "book/add";

}

* This code to add data to book field in controller file
* This function is use to add data to book.

function add(&$data){

  $data['page'] = "book/add";

}

function form\_data(&$data) {

  $add\_data = m\_add\_data($\_POST);

  if($add\_data) {

      $action = "view";

  }else {

      $action = "add";

  }

  header("Location: index.php?action=$action");

* This code to booking book in controller file
* This function is use to booking book for user want to borrow book to read

function booking(&$data){

  $data['booking'] = m\_detail($\_GET);

  $data['page'] = "book/booking";

}

function form\_booking(&$data){

  $booking\_data = m\_booking\_data($\_POST);

  if($booking\_data){

    $action = "view";

  }else{

    $action = "book/booking";

  }

  header("Location: index1.php?action=$action");

}

* This function is use to view detail of book

function detail(&$data){

      $data['detail'] = m\_detail();

      $data['page'] = "book/detail";

    }

* User controller file
* This code write to view all of users in controller file
* This function is use to list all data of users in view of user

$data = array();

        myFunction($data);

        function myFunction(&$data){

            $function = "view";

            if(isset($\_GET['action'])){

                $function = $\_GET['action'];

            }

            $function($data);

        }

        function view(&$data){

            $data['view']= m\_view();

            $data['page']="user/view";

        }

* Detail user in controller file
* This function is use to view the specific user

function detail(&$data){

            $data['detail'] = m\_detail();

            $data['page'] = "user/detail";

        }

* Delete user in controller file
* This function is use to delete data from the view of user

function delete(&$data){

            $delete\_data = m\_delete();

            if($delete\_data){

                $action = "view";

            }else{

                echo " Cannot Delete";

            }

            header("Location: index1.php?action=$action");

         }

1. Process in Model file

* Book Model file
* View book
* This function is use to view the users

function model\_view()

{

  include "connection.php";

  $query = mysqli\_query($conn, "SELECT \* FROM tbl\_book");

  $result = [];

  if ($query && mysqli\_num\_rows($query) > 0) {

    foreach ($query as $value) {

      $result[] = $value;

    }

  }

  return $result;

}

* Detail book
* This function is use to view the specific user

function m\_detail()

{

  include "connection.php";

  $id = $\_GET['id'];

  $query = mysqli\_query($conn, "SELECT \* FROM tbl\_book WHERE book\_id=$id");

  return $query;

}

* Delete book
* This function is use to delete the specific users

function m\_delete()

{

  include "connection.php";

  $id = $\_GET['id'];

  $query = " DELETE FROM tbl\_book WHERE book\_id = '$id'";

  $result = mysqli\_query($conn, $query);

  return $result;

}

* Add data in book
* This function is use to add data in user

function m\_add\_data($data)

{

  include "connection.php";

  $title = $\_POST['title'];

  $desp = $\_POST['desp'];

  $type = $\_POST['type'];

  $query = "INSERT INTO tbl\_book(title,description,type)

            VALUES('$title', '$desp', '$type')";

  $result = mysqli\_query($conn, $query);

  return $result;

}

* Edit book in model file
* This function is use to edit data in users

function m\_edit(){

  include "connection.php";

  $id = $\_GET['id'];

  $title = $\_POST['title'];

  $desp = $\_POST['desp'];

  $type = $\_POST['type'];

  $query = "UPDATE tbl\_book SET title='$title',description='$desp',type='$type' WHERE book\_id = $id";

  $result = mysqli\_query($conn, $query);

  return $result;

}

* Booking
* This function is use to booking book

function m\_booking\_data($data)

{

  include "connection.php";

  $id = $\_POST['id'];

  $username = $\_POST['username'];

  $gender = $\_POST['gender'];

  $email = $\_POST['email'];

  $startDate = $\_POST['startdate'];

  $enddate = $\_POST['enddate'];

  $query ="INSERT INTO tbl\_users(Username,gender,email,startdate,enddate,book\_id)

 VALUES ('$username', '$gender','$email','$startDate','$enddate',

(SELECT book\_id FROM tbl\_book WHERE book\_id = $id))";

 $result =  mysqli\_query($conn,$query);

 return $result;}

* Login in model file
* This function is use to process of login our system

function m\_login(){

  include "connection.php";

  $username = $\_POST['username'];

  $password  = $\_POST['password'];

  $\_SESSION['username'] = $username;

  $\_SESSION['password'] = $password;

  $query = mysqli\_query($conn, "SELECT \* FROM user\_name");

  $login = [];

  foreach($query as $result){

    $login[] = $result;

  }

  return $login;

}

* User model file
* View
* This function is use to view user

function m\_view() {

        include "connection.php";

        $query ="SELECT \* FROM tbl\_users U INNER JOIN tbl\_book B ON B.book\_id = U.book\_id";

        $result=mysqli\_query($conn,$query);

        $rows=[];

        if($result && mysqli\_num\_rows($result) > 0){

            foreach($result as $recode){

                $rows[] = $recode;

            }

        }

        return $rows ;

    }

* Add user in model file
* This function is use to add data in users

function m\_add($data) {

        $fullname = $\_POST['username'];

        $gender = $\_POST['gender'];

        $email = $\_POST['email'];

        $startDate = $\_POST['startdate'];

        $endDate = $\_POST['enddate'];

        include "connection.php";

        $query = "INSERT INTO tbl\_user(Username,gender,email,startDate,endDate)

                    VALUES('$fullname','$gender','$email','$startDate','$endDate')";

        $result = mysqli\_query($conn,$query);

        return $result;

    }

* Delete
* This function is use to delete data in view of user

function m\_delete() {

        include "connection.php";

        $id = $\_GET['id'];

        $query = "DELETE FROM tbl\_users WHERE user\_id = '$id'";

        $result = mysqli\_query( $conn,$query);

        return $result;

    }

* Detail
* This function id use to view the specific of users

function m\_detail()

    {

        include "connection.php";

        $id = $\_GET['id'];

        $query =mysqli\_query($conn,"SELECT \* FROM tbl\_users U INNER JOIN tbl\_book B ON B.book\_id = U.book\_id WHERE user\_id = $id");

        return $query;

    }

* Booking
* This function is use to booking book in user

function get\_book\_data() {

        $id = $\_GET['id'];

        $query = "SELECT \* FROM tbl\_book WHERE book\_id=$id";

        include "connection.php";

        $result = mysqli\_query($conn,$query);

        $rows = [];

        if($result && mysqli\_num\_rows($result) > 0 ){

        foreach ($result as $record) {

        $rows[] = $record;

        }

        }

        return $rows; }

    function m\_booking()

    {

      include "connection.php";

      $id = $\_GET['id'];

      $query = mysqli\_query($conn, "SELECT \* FROM tbl\_users WHERE user\_id=$id");

      return $query;

    }