**Connectivity between database and frontend**

* I have used a GUI application called php my admin with maria db as my data storage



**CONNECTING THE BACKEND AND THE FRONTEND**

* I have written this code(common.php) separately and added this to all my .php scripts as a header file.

<?php

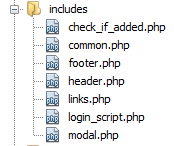
$con = mysqli\_connect("localhost","root","rithanya","mobilestoredb") or die(mysqli\_error($con));

if(!isset($\_SESSION['email'])){

session\_start();

}

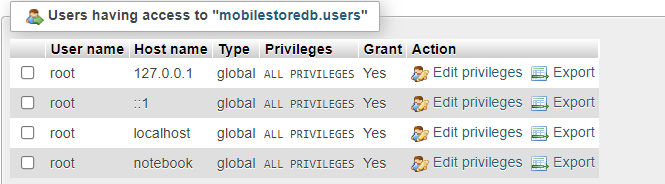
?>

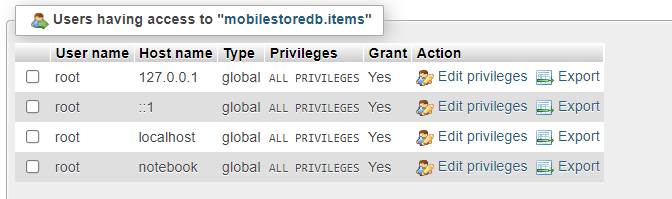


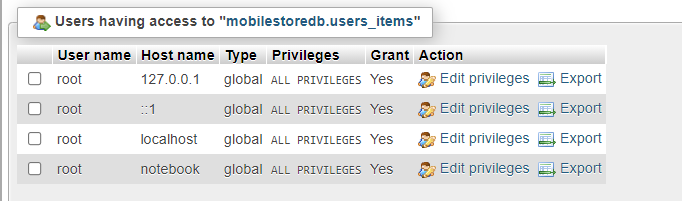
This file contains the above mentioned code, which links the frontend and the database access.

* **BACKEND**

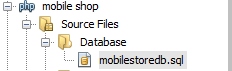
Here, since the privilege is set in common as global type, the database is able to run on any localuser phpmyadmin platform. All we have to do is to link the database file with our front end codes.







* I have downloaded my database as .sql file and have linked to my project directory



**My mobilestore.db contains**

-- phpMyAdmin SQL Dump

-- version 4.9.2

-- https://www.phpmyadmin.net/

--

-- Host: 127.0.0.1:3306

-- Generation Time: Jul 19, 2020 at 10:00 AM

-- Server version: 10.4.10-MariaDB

-- PHP Version: 7.3.12

SET SQL\_MODE = "NO\_AUTO\_VALUE\_ON\_ZERO";

SET AUTOCOMMIT = 0;

START TRANSACTION;

SET time\_zone = "+00:00";

/\*!40101 SET @OLD\_CHARACTER\_SET\_CLIENT=@@CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET @OLD\_CHARACTER\_SET\_RESULTS=@@CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET @OLD\_COLLATION\_CONNECTION=@@COLLATION\_CONNECTION \*/;

/\*!40101 SET NAMES utf8mb4 \*/;

--

-- Database: `mobilestoredb`

--

-- --------------------------------------------------------

--

-- Table structure for table `items`

--

DROP TABLE IF EXISTS `items`;

CREATE TABLE IF NOT EXISTS `items` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) NOT NULL,

`price` int(11) NOT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB AUTO\_INCREMENT=13 DEFAULT CHARSET=latin1;

--

-- Dumping data for table `items`

--

INSERT INTO `items` (`id`, `name`, `price`) VALUES

(1, 'One Plus 7T', 35999),

(2, 'One Plus 7T Pro', 47999),

(3, 'iPhone XS Max', 99999),

(4, 'iPhone XR', 53999),

(5, 'iPhone 8', 41999),

(6, 'Redmi K20 Pro', 29999),

(7, 'Redmi Note 8', 9999),

(8, 'iPhone 7', 29999),

(9, 'Samsung Galaxy A51', 25250),

(10, 'Samsung Galaxy S9', 30999),

(11, 'Samsung Galaxy S10', 129999),

(12, 'Samsung Galaxy S20 Ultra', 97999);

-- --------------------------------------------------------

--

-- Table structure for table `users`

--

DROP TABLE IF EXISTS `users`;

CREATE TABLE IF NOT EXISTS `users` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`name` varchar(255) NOT NULL,

`email` varchar(255) NOT NULL,

`password` varchar(255) NOT NULL,

`contact` varchar(255) NOT NULL,

`city` varchar(255) NOT NULL,

`address` varchar(255) NOT NULL,

PRIMARY KEY (`id`)

) ENGINE=InnoDB AUTO\_INCREMENT=4 DEFAULT CHARSET=latin1;

--

-- Dumping data for table `users`

--

INSERT INTO `users` (`id`, `name`, `email`, `password`, `contact`, `city`, `address`) VALUES

(1, 'unknown', 'unknown@xyz.com', 'ad921d60486366258809553a3db49a4a', '9876543210', 'xyz', 'sdkjfhfiwh,ajshdudiue'),

(2, 'notknown', 'notknown@gmail.com', '24444505a46ce871df8150f9c1b2d2df', '9876543210', 'abc', 'schjbhffeguk,jidhuygwegf'),

(3, 'couldntbeknown', 'couldntbeknown@gmail.com', '1a26f681a391f8aced0cd5307932ecd6', '9876543210', 'rty', 'qwiyeryuir,cvnmbvkx');

-- --------------------------------------------------------

--

-- Table structure for table `users\_items`

--

DROP TABLE IF EXISTS `users\_items`;

CREATE TABLE IF NOT EXISTS `users\_items` (

`id` int(11) NOT NULL AUTO\_INCREMENT,

`users\_id` int(11) NOT NULL,

`items\_id` int(11) NOT NULL,

`status` enum('Added to cart','Confirmed') NOT NULL,

PRIMARY KEY (`id`),

KEY `users\_id` (`users\_id`),

KEY `items\_id` (`items\_id`)

) ENGINE=InnoDB AUTO\_INCREMENT=10 DEFAULT CHARSET=latin1;

--

-- Dumping data for table `users\_items`

--

INSERT INTO `users\_items` (`id`, `users\_id`, `items\_id`, `status`) VALUES

(1, 1, 3, 'Confirmed'),

(2, 2, 1, 'Confirmed'),

(3, 2, 5, 'Confirmed'),

(4, 2, 9, 'Confirmed'),

(5, 2, 11, 'Confirmed'),

(6, 3, 12, 'Confirmed'),

(7, 3, 11, 'Confirmed'),

(8, 3, 10, 'Confirmed'),

(9, 3, 9, 'Confirmed');

--

-- Constraints for dumped tables

--

--

-- Constraints for table `users\_items`

--

ALTER TABLE `users\_items`

ADD CONSTRAINT `users\_items\_ibfk\_1` FOREIGN KEY (`items\_id`) REFERENCES `items` (`id`),

ADD CONSTRAINT `users\_items\_ibfk\_2` FOREIGN KEY (`users\_id`) REFERENCES `users` (`id`);

COMMIT;

/\*!40101 SET CHARACTER\_SET\_CLIENT=@OLD\_CHARACTER\_SET\_CLIENT \*/;

/\*!40101 SET CHARACTER\_SET\_RESULTS=@OLD\_CHARACTER\_SET\_RESULTS \*/;

/\*!40101 SET COLLATION\_CONNECTION=@OLD\_COLLATION\_CONNECTION \*/;

# 10. CASE STUDIES (APPLICATION DEVELOPMENT USING ORACLE/ MYSQL )

# AIM:

To design and implement the application, ‘Mobile e-Shop’ using phpmyadmin(Mysql, php) as a back end (data base) and netbeans(html, css, bootstrap) as a Front end.

# PROCEDURE:

1. Create an mobile shop db database with the following fields in php my admin namely 1. User 2. Item 3. User\_item and insert some record into the database.
2. Design the corresponding form with labels ,text boxes and command buttons.
3. Connect the back end with the front end by linking the mobile shop db in the header folder of the scripting pages as follows .
   * 1. $con = mysqli\_connect("localhost","root","rithanya","mobilestoredb") or die(mysqli\_error($con));
4. Populate the schema by inserting the values into it.
5. Perform the required operations like add,update,edit,delete,.
6. Execute the project.
7. Perform the credential operation.

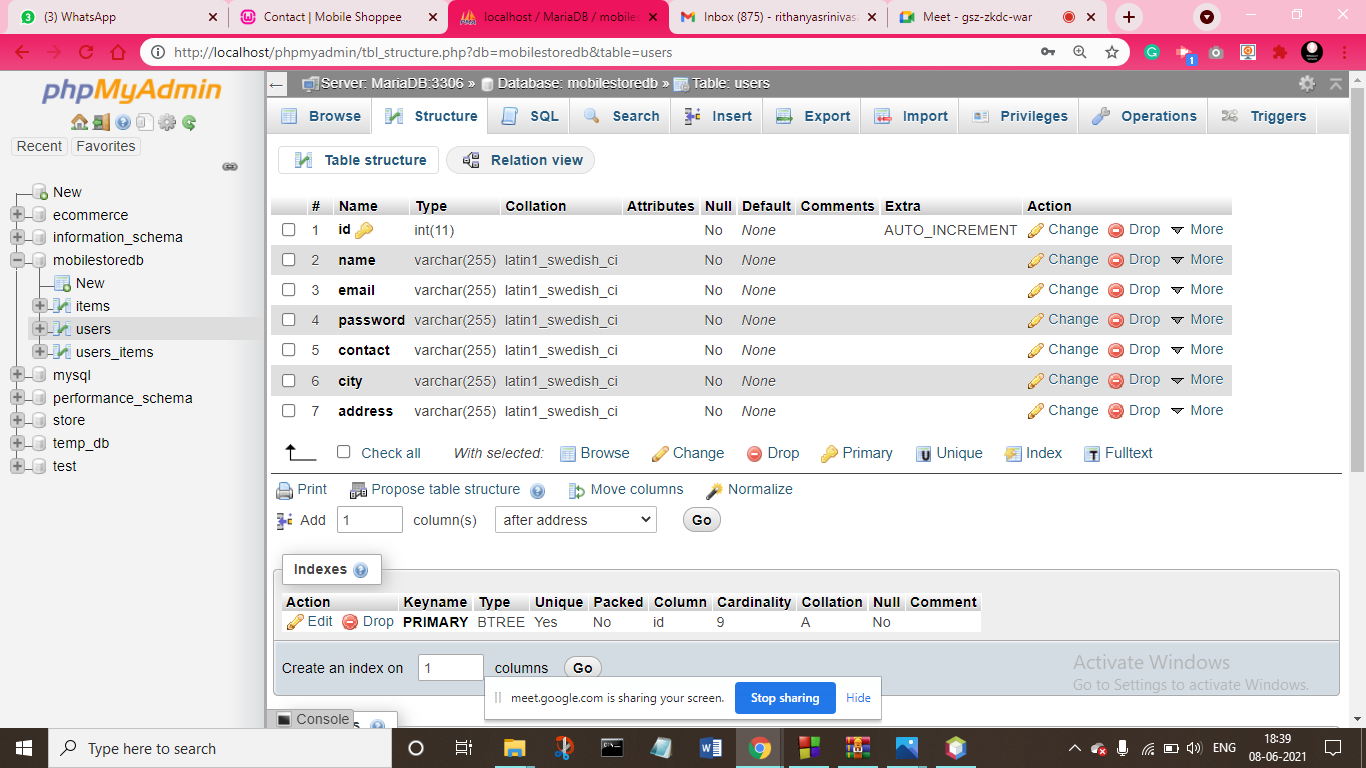
**ABSTRACT**

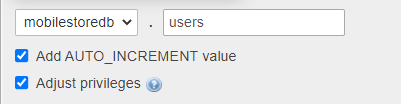
This project is basically a Mobile e-shopping website which contain Mysql, php, css, bootstrap, html, here the html, css, bootstrap part decides my front end. The php and Mysql functions the backend of the website. I have created three schemas in the database named “mobilestoredb”. Those schemas are USER, ITEM, USER\_ITEM, whenever the user logs in and books an item, it wil get stored in the database schema automatically, since we have provided “Autoincrement” as our default constrain.

# DATABASE: mobilestoredb

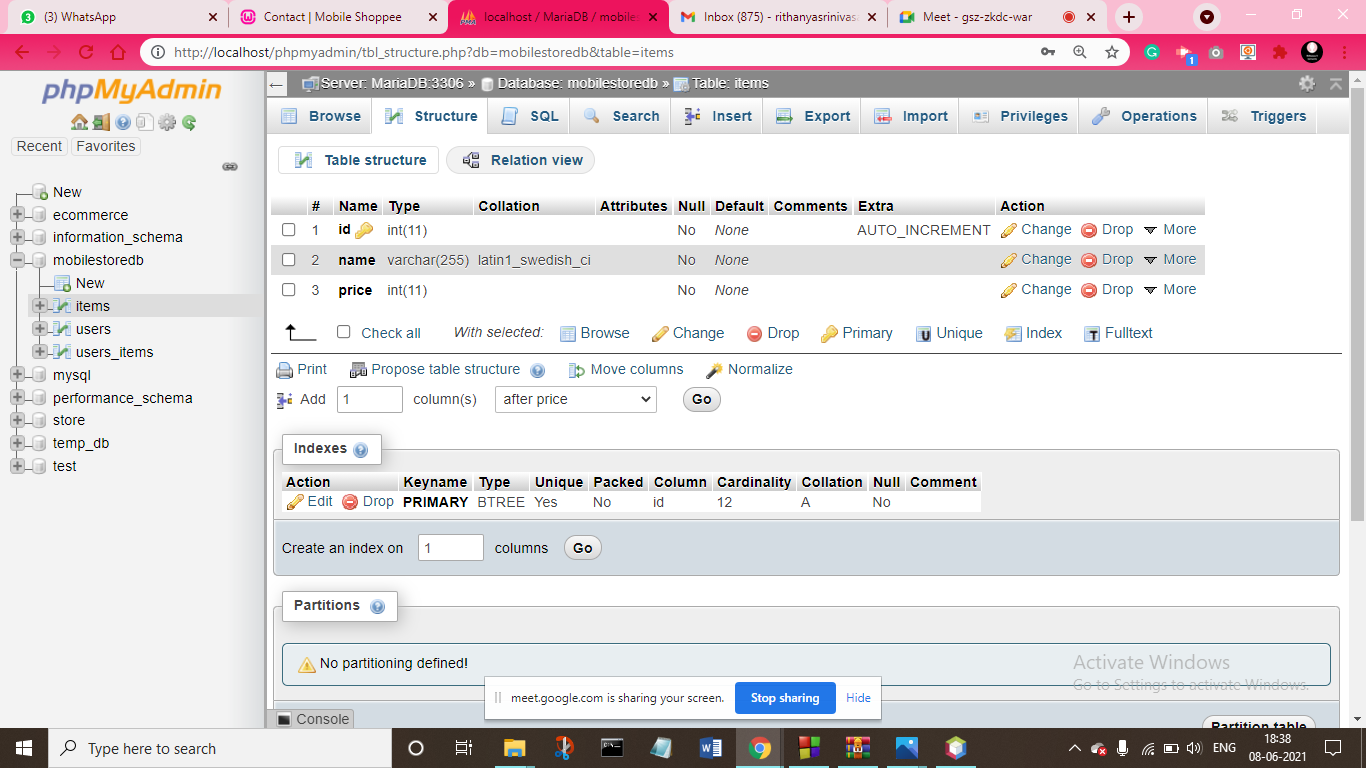
# 

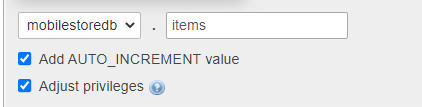
**USER TABLE SCHEMA**



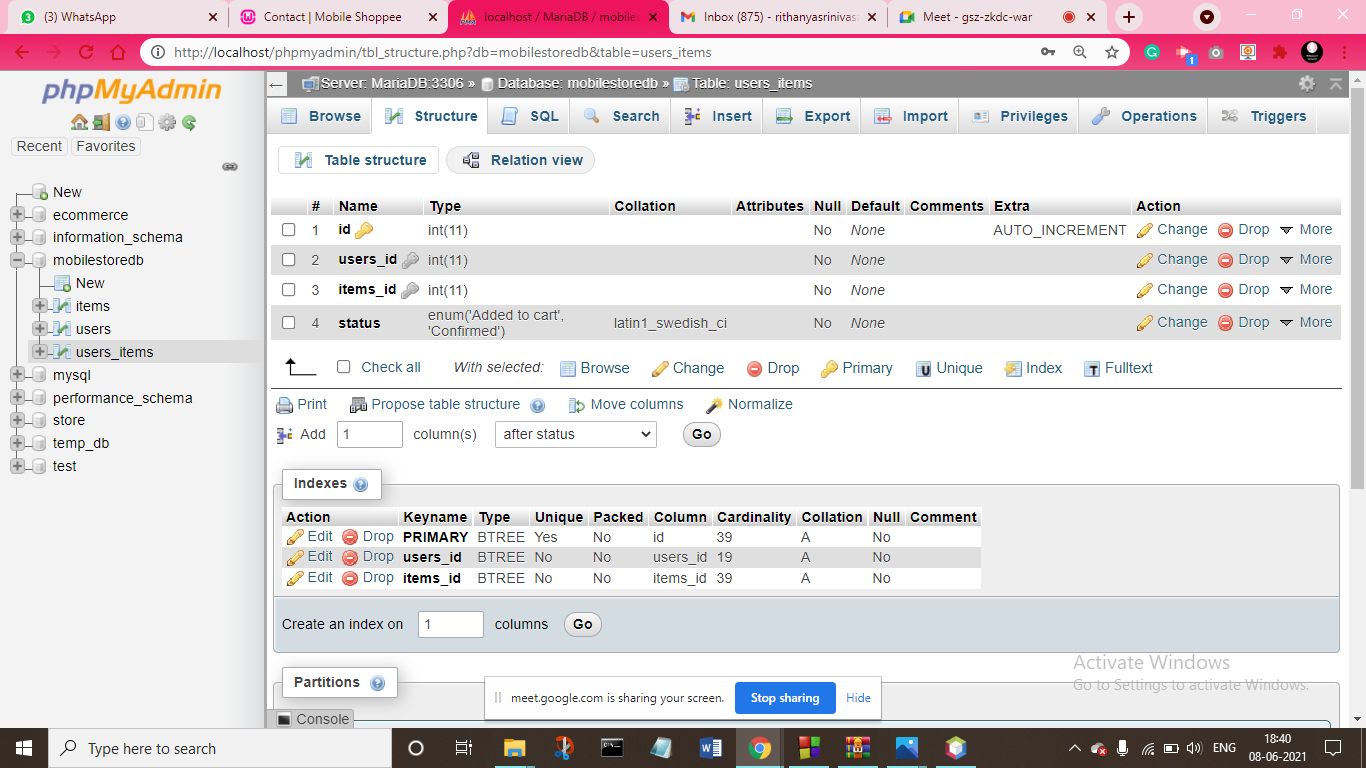


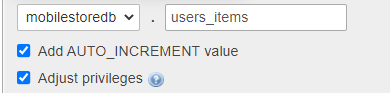
**ITEM TABLE SCHEMA**



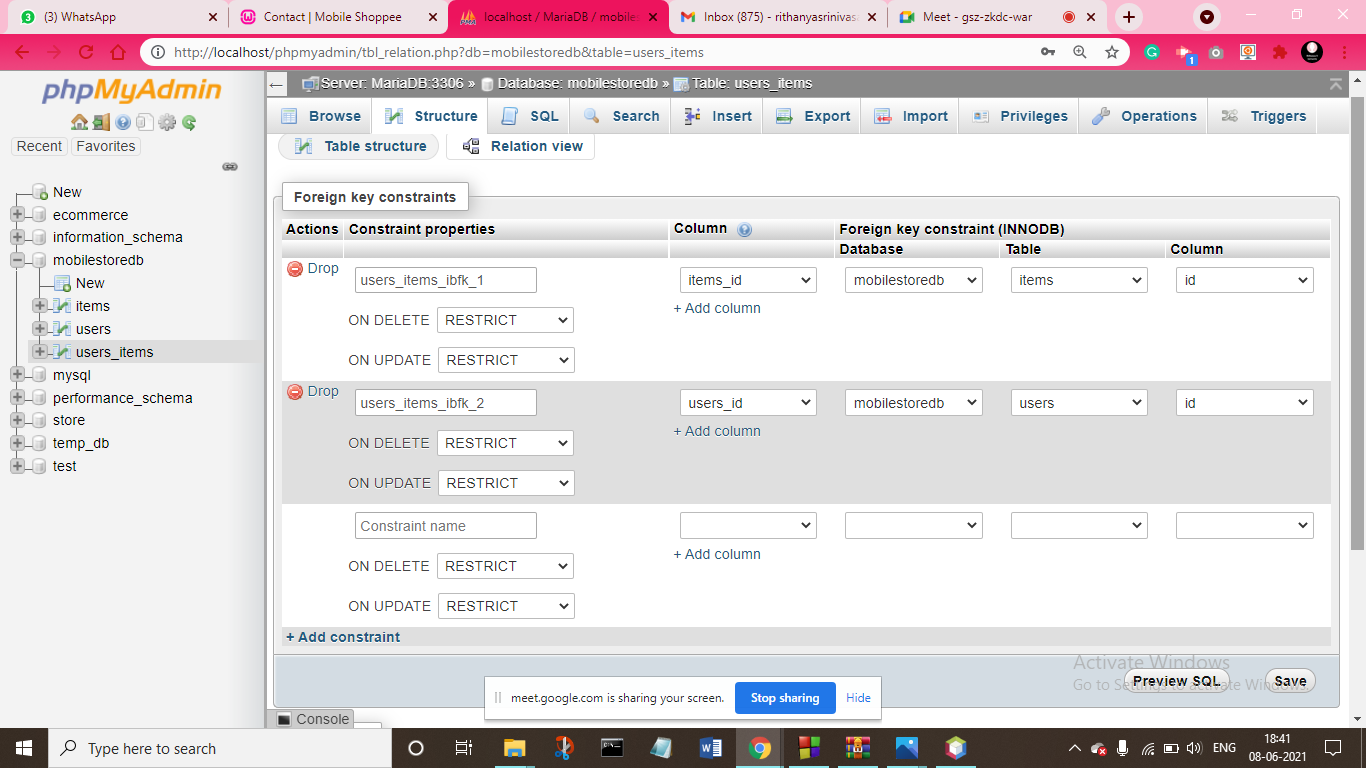


**USER\_ITEM TABLE SCHEMA**

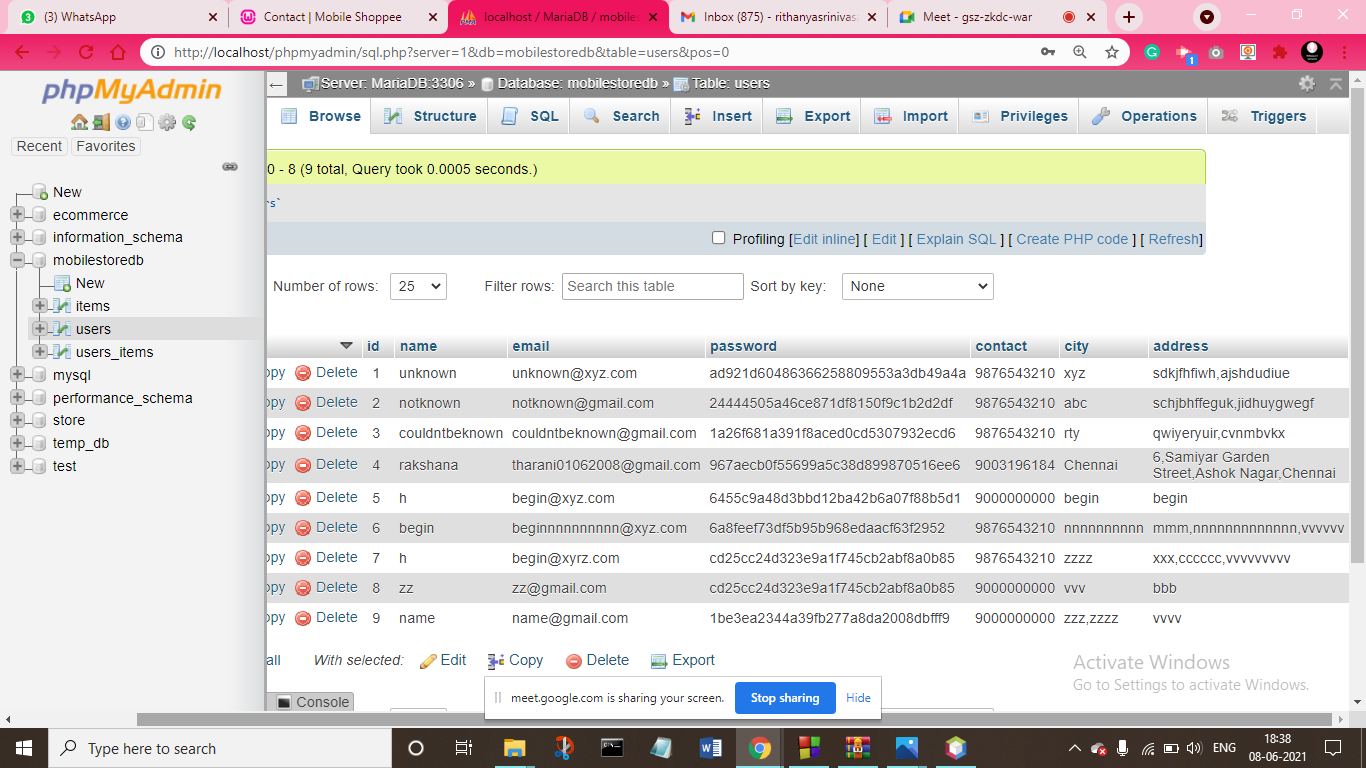




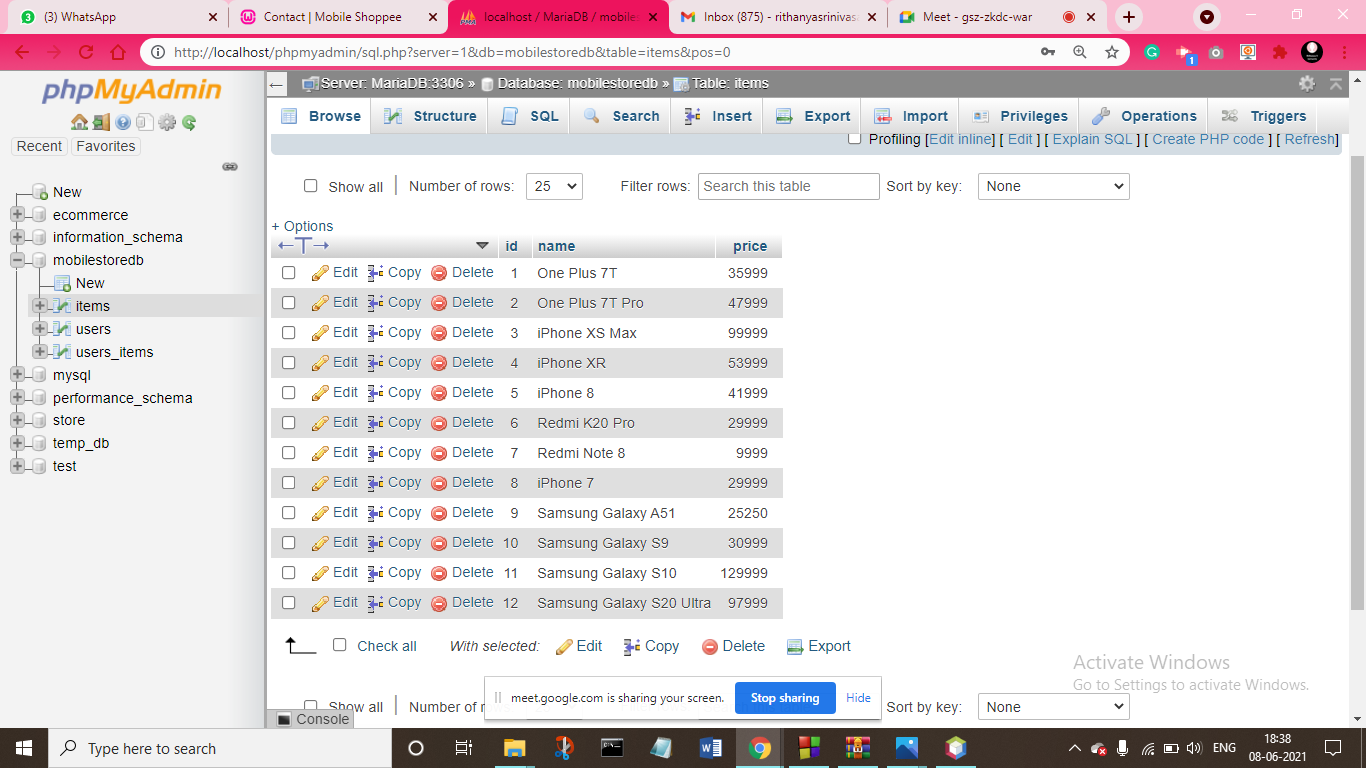
**FOREIGN KEY INISTIALIZATION FOR USER\_ITEM RELATION**



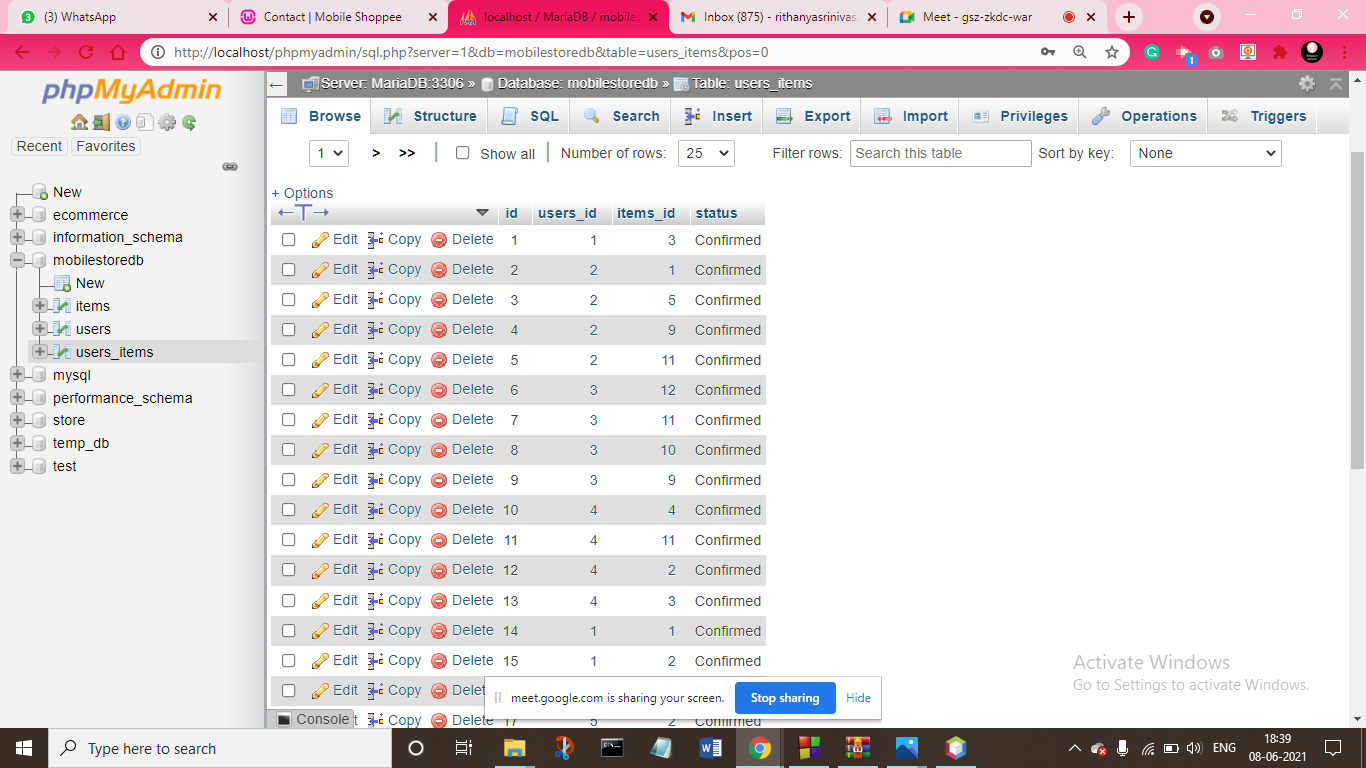
**USER RELATION, WITH VALUES GOT FROM THE NAÏVE USER**



**ITEM RELATION**



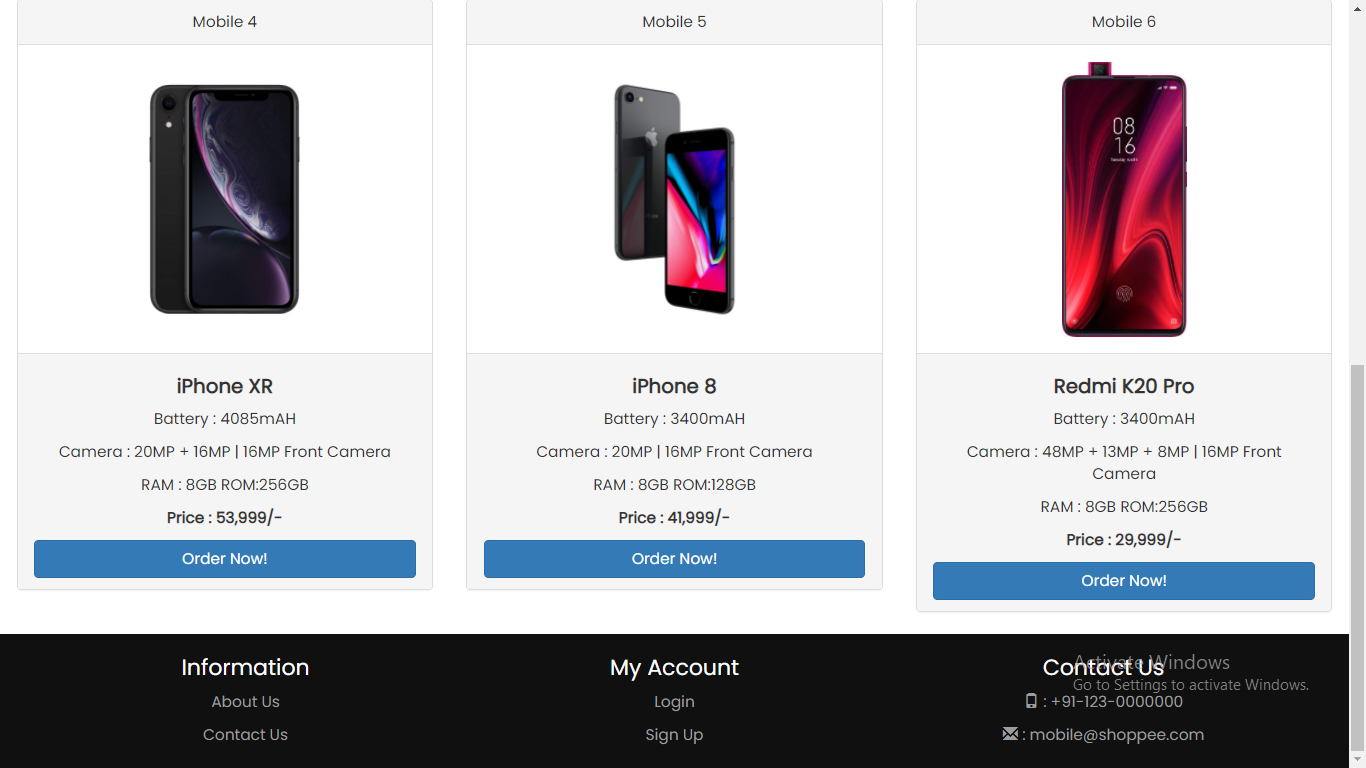
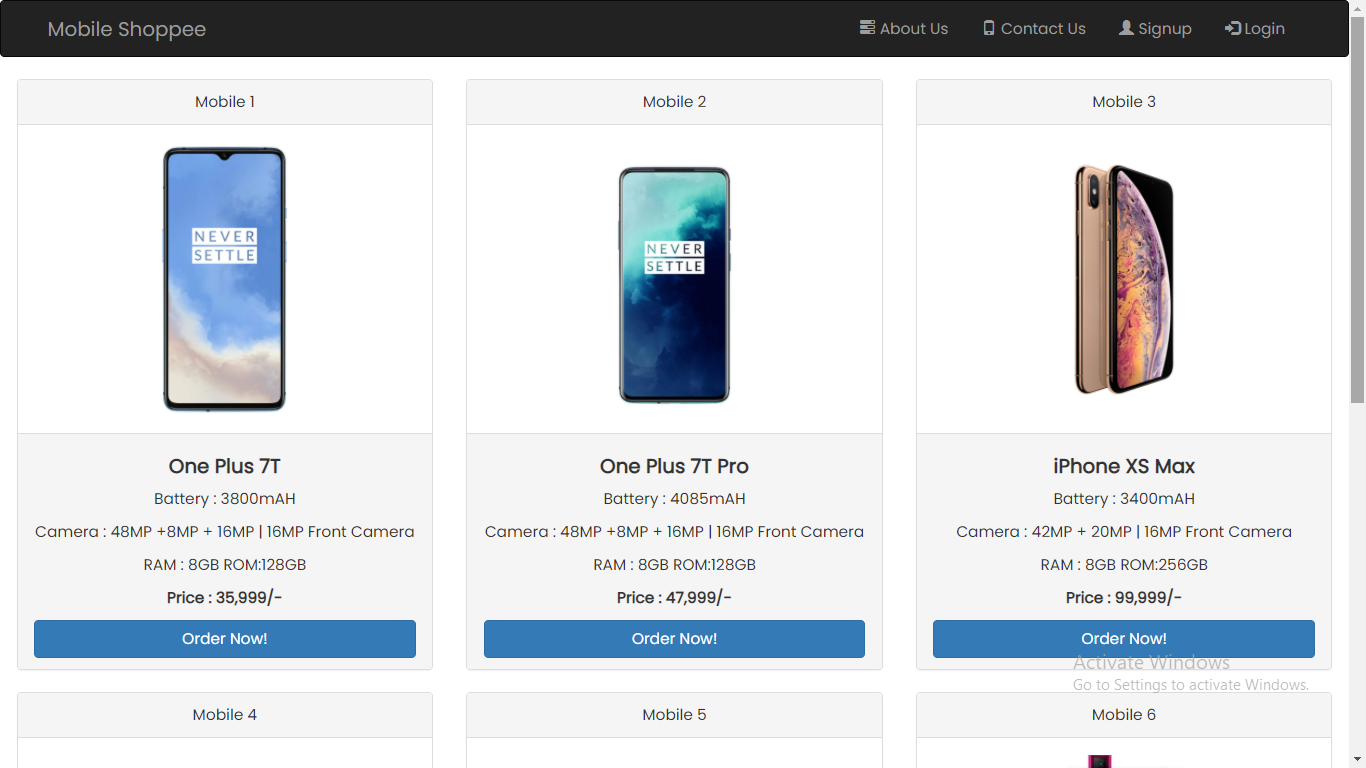
**USER\_ITEM RELATION**



**Scripts included to create frontend are:**

* Index.phph
* Signin.php
* Login.php
* Product.php
* Cart.php
* Check\_if\_added.php
* Confirm.php

**Index.php**

****

**Signin.php**

<?php

require './includes/common.php';

$name = $\_POST['name'];

$name = mysqli\_real\_escape\_string($con , $name);

$email = $\_POST['email'];

$email = mysqli\_real\_escape\_string($con , $email);

$password = $\_POST['password'];

$password = mysqli\_real\_escape\_string($con , $password);

$password = md5($password);

$contact = $\_POST['contact'];

$contact = mysqli\_real\_escape\_string($con , $contact);

$city = $\_POST['city'];

$city = mysqli\_real\_escape\_string($con , $city);

$address = $\_POST['address'];

$address = mysqli\_real\_escape\_string($con , $address);

$email\_regex = "/^[\_a-z0-9-]+(\.[\_a-z0-9-]+)\*@[a-z0-9-]+(\.[a-z0-9-]+)\*(\.[a-z]{2,3})$/";

$contact\_regex = "/^[789][0-9]{9}$/";

//check whether email already exists

$select\_query = "SELECT \* from users WHERE email = '$email'";

$select\_query\_result = mysqli\_query($con , $select\_query) or die(mysqli\_error($con));

$select\_rows = mysqli\_num\_rows($select\_query\_result);

if($select\_rows!=0){

$error = "<span class='red'>Email Already Exists</span>";

header('location:signup.php?m1='.$error);

}else if(!preg\_match($email\_regex , $email)){

$error = "<span class='red'>Incorrect Email Id</span>";

header('location:signup.php?m1='.$error);

}else if(!preg\_match($contact\_regex , $contact )){

$error = "<span class='red'>Incorrect Contact Number</span>";

header('location:signup.php?m2='.$error);

}

//if not then add to DB

else{

$insert\_query = "INSERT INTO users (name,email,password,contact,city,address) VALUES ('$name','$email','$password','$contact','$city','$address')";

$inser\_query\_result = mysqli\_query($con , $insert\_query) or die(mysqli\_error($con));

$users\_id = mysqli\_insert\_id($con);

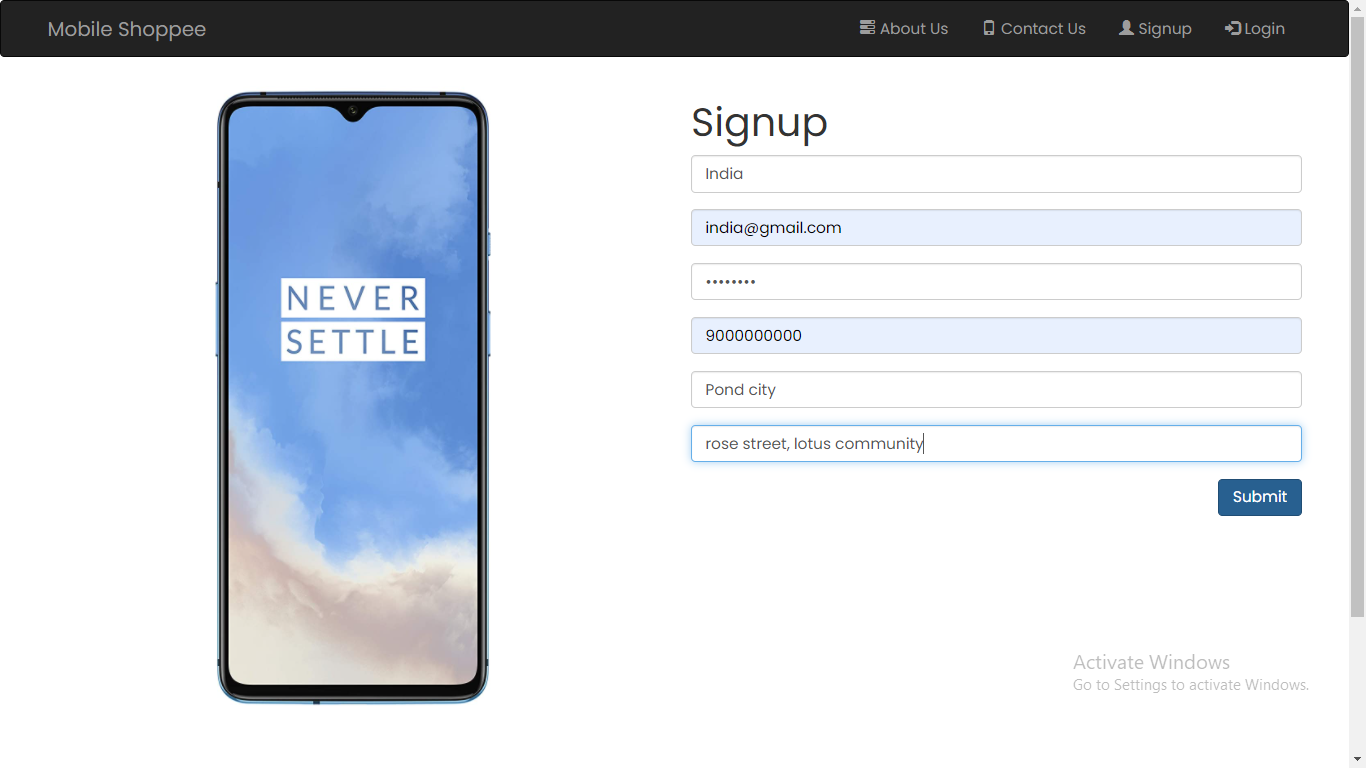
$\_SESSION['users\_id'] = $users\_id;

$\_SESSION['email'] = $email;

header('location:home.php');

}

?>



**Login.php**

<?php

require './includes/common.php';

$email = $\_POST['email'];

$email = mysqli\_real\_escape\_string($con , $email);

$password = $\_POST['password'];

$password = mysqli\_real\_escape\_string($con , $password);

$password = md5($password);

$login\_select\_query = "SELECT id , email from users WHERE email = '$email' AND password = '$password'";

$login\_select\_query\_result = mysqli\_query($con , $login\_select\_query) or die(mysqli\_error($con));

$total\_rows\_fetched = mysqli\_num\_rows($login\_select\_query\_result);

if($total\_rows\_fetched!=0){

$row = mysqli\_fetch\_array($login\_select\_query\_result);

$\_SESSION['email'] = $email;

$\_SESSION['users\_id']=$row['id'];

header("location:home.php");

}

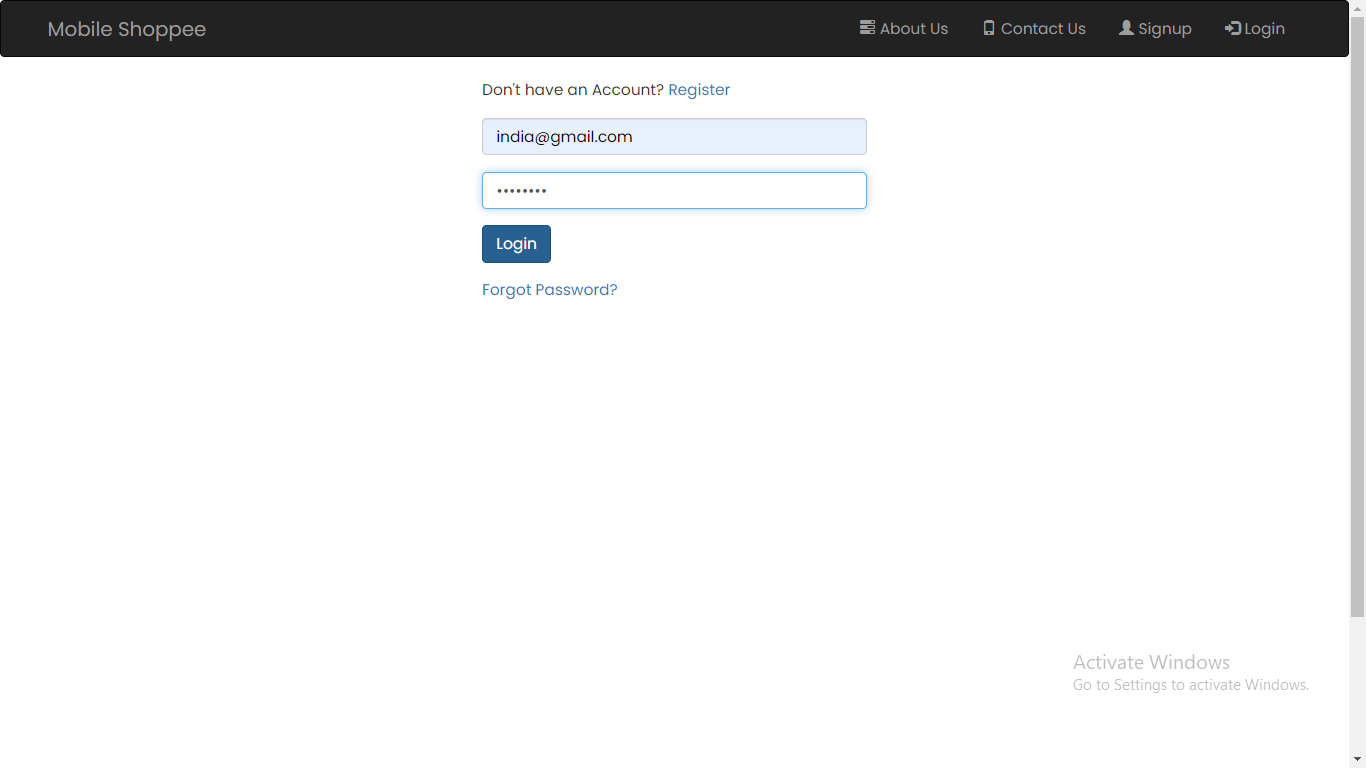
else{

$error = "<span class='red'>Invalid Credentials</span>";

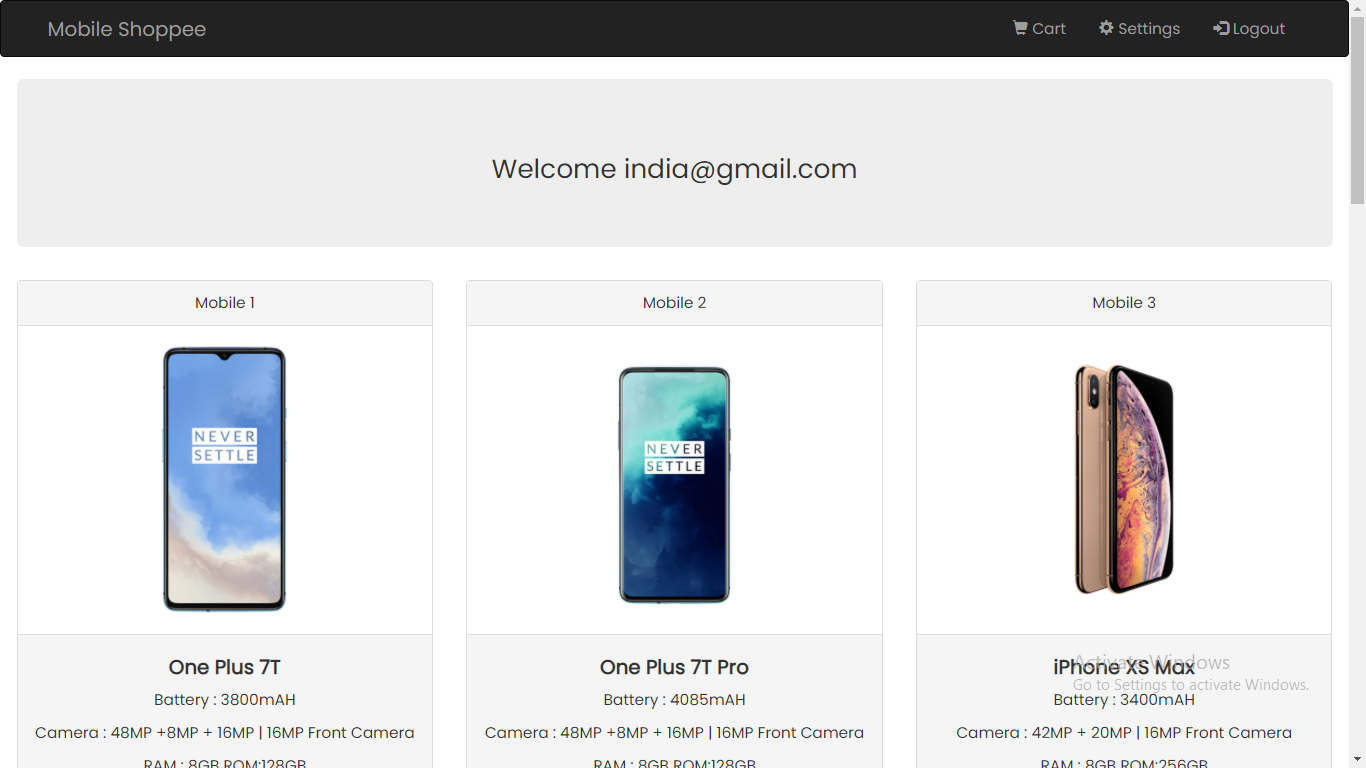
header("location:login.php?m1=".$error);

}

?>



**Product.php**

****

**CART.php**

<?php

require("./includes/common.php");

if (isset($\_GET['id']) && is\_numeric($\_GET['id'])) {

$items\_id = $\_GET['id'];

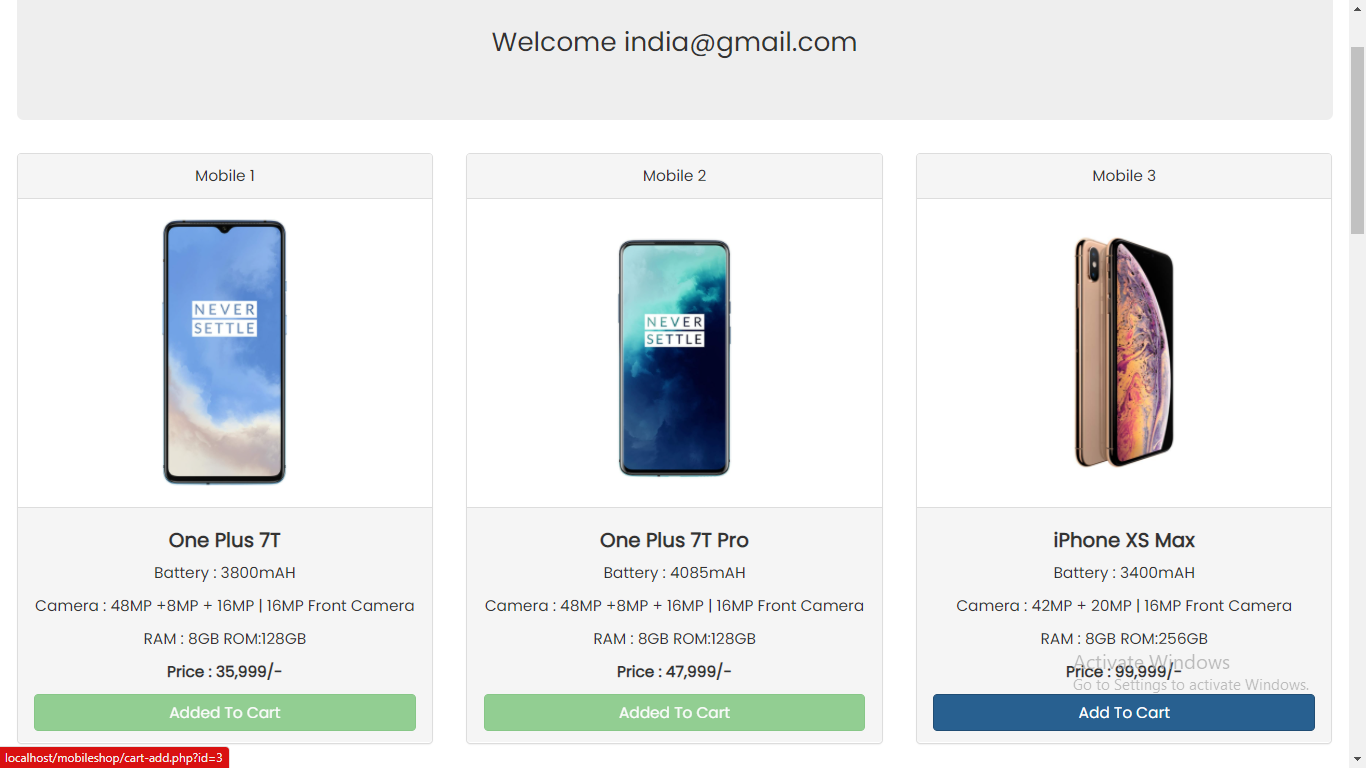
$users\_id = $\_SESSION['users\_id'];

$query = "INSERT INTO users\_items (users\_id,items\_id,status) VALUES ('$users\_id','$items\_id','Added To Cart')";

$result = mysqli\_query($con,$query) or die(mysqli\_error($con));

header("location:home.php");

}?>



**Check\_if\_added.php**

<?php

function check\_if\_added\_to\_cart($item\_id){

require 'common.php';

$users\_id = $\_SESSION['users\_id'];

$query = "SELECT \* FROM users\_items WHERE items\_id='$item\_id' AND users\_id ='$users\_id' and status='Added To Cart'";

$query\_result = mysqli\_query($con, $query);

if(mysqli\_num\_rows($query\_result) >= 1){

return TRUE;

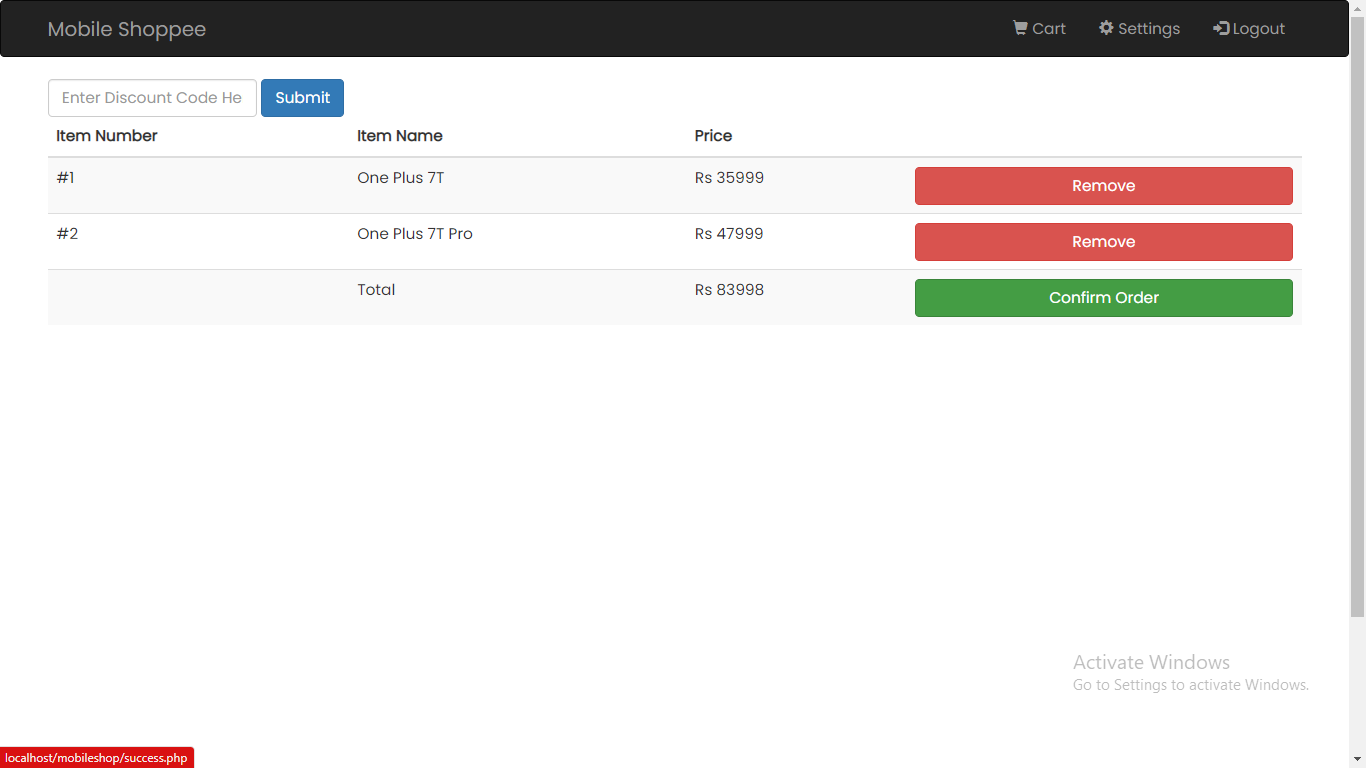
}else{

return FALSE;

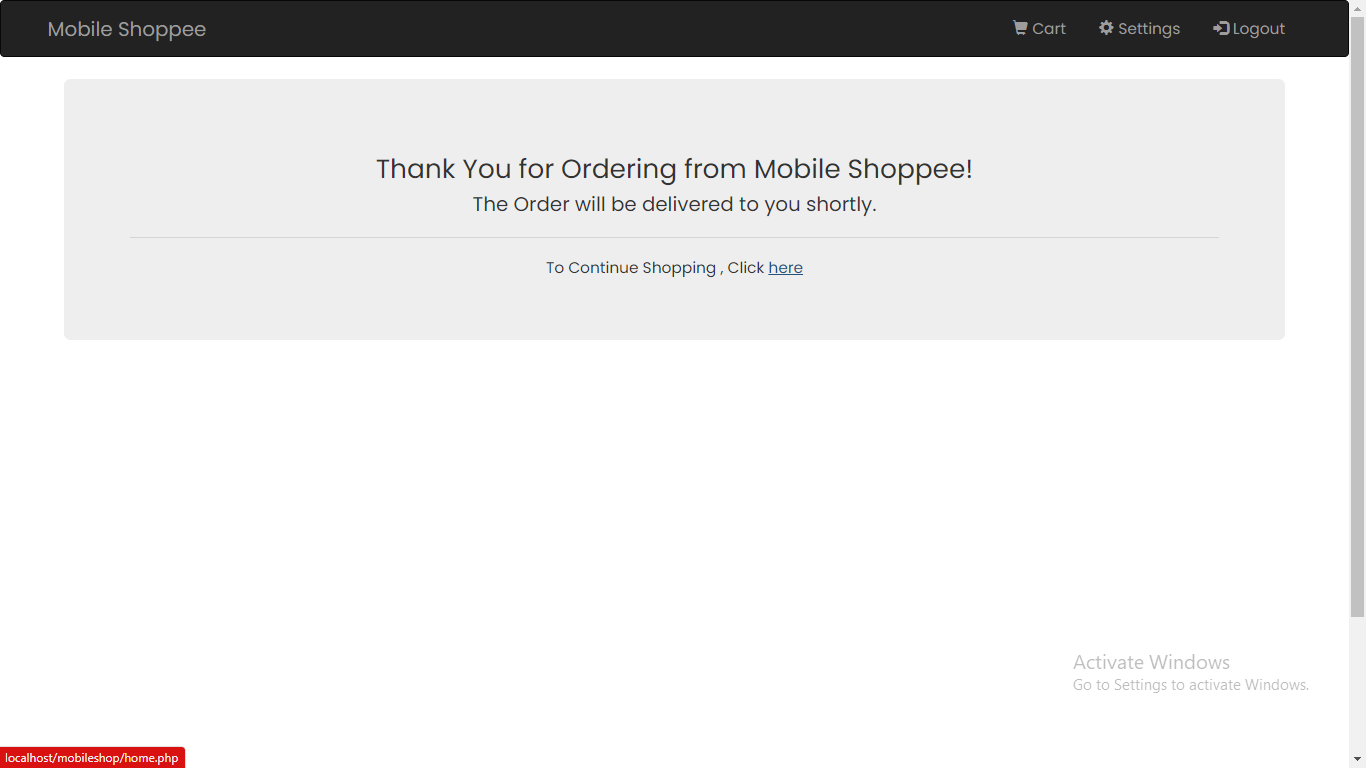
}

}

?>



**Confirm.php**



**RESULT**:

Thus, the application of Mobile e-Shop system has been designed and implemented using netbeans and phpmyadmin.