**STUDENT STORE**

*A Mini Project Report submitted in the partial fulfillment of the requirements for the award of the degree*

**BACHELOR OF TECHNOLOGY**

**in**

**COMPUTER SCIENCE AND ENGINEERING**

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**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**

**NARASARAOPETA ENGINEERING COLLEGE (AUTONOMOUS) :**

**NARASARAOPET**

**(Affiliated to J.N.T.U, Kakinada , Approved by AICTE & Accredited by NBA)**

**2020-2021**

**NARASARAOPETA ENGINEERING COLLEGE : (AUTONOMOUS) NARASARAOPET**

**DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING**



**CERTIFICATE**

This is to certify that the mini project entitled **Student Store** is a bonafide work done by **P. Irfan Khan (18471A0541), P. Charan Mandhatha (18471A0543), S. Nagarjuna Reddy (18471A0549)** in partial fulfillment of the requirements for the award of the degree of **BACHELOR OF TECHNOLOGY** in the Department of **COMPUTER SCIENCE AND ENGINEERING** during **2020-2021.**

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By

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**ABSTRACT**

The Business-to-Customer aspect of electronic commerce (e-commerce) is the most visible business use of the World Wide Web. The primary goal of an e-commerce site is to sell goods and services online.

E-commerce is fast gaining ground as an accepted and used business paradigm. More and more business houses are implementing web site providing functionality for performing commercial transactions over the web. It is reasonable to say that the process of shopping on the web is becoming commonplace.

Every year lakhs of students enter into the engineering colleges , they need to buy

accessories needed for engineering. But they do not have idea about what to buy and how

much each product cost.

Student store help them by providing the cost of each accessory.

It not only provides information but also by using student store, student can get the

accessories less then the market price, and can sell his products to other students within the

college.

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**1. INTRODUCTION**

Marketing is basically helps the consumer’s needs more effectively and efficiently with good product and services with best price and delivery. A good marketer continuously satisfying consumers needs in better way. Sometimes opportunity to give the consumers in better way is designed by marketers himself and sometimes it is offered by the technology. Internet is changing the way consumers shop for goods and services and has rapidly evolved into a global event. Rowley Jennifer, (1998) examined that internet is becoming a hotbed of advertising, shopping and commercial activity. Hsieh et al., (2013) stated that internet is influencing people’s daily life more so as compared to past. People’s daily activities have gradually shifted from physical conditions to virtual environment . The shopping and payment surroundings have also changed from physical store into online stores. Weiber and Kollmann, (1998) investigated that online technologies provide many competitive advantages like agility, selectivity, individuality and interactivity. Li Na and Zhang Ping, (2002) examined that online shopping has become the third most popular Internet activity, immediately following e-mail using, instant messaging and web browsing. Jush and Ling, (2012) defined online shopping as the process a customer takes to purchase a service or product over the internet . A Student may at his or her leisure buy from the comfort of their own home products from an Student store.

**2.SYSTEM ANALYSIS**

**2.1 LITERATURE SURVEY**

Online buying behavior is affected by various factors like, economic factors, demographic factors, technical factors, social factors, cultural factors, psychological factors, marketing factors and legislative factors. Customers choose an online-shop mainly based on references, clarity terms of delivery, graphic design and additional services. Problematical customers read discussions on the Internet before they spend their money on-line and when customers are incapable to purchase the product fast and with no trouble they leave online-shop. Kotler, (2003) described Consumer buying method as learning, information-processing and decision-making activity divided in several consequent steps: Problem identification, Information search, Alternatives evaluation, Purchasing decision, Post-purchase behavior. Efthymios, identified the main constituent of the online shopping experience as follows: the functionality of the Web site that includes the elements trade with the site’s usability. the emotional elements planned for lowering the customer’s hesitation by communicating trust and credibility of the online seller and Web site and the content elements including the aesthetic aspects of the online presentation and the marketing mix.

**2.2 EXISTING SYSTEM**

* + - It is limited to a single system.
    - It is less user-friendly.
    - It is having lots of manual work (Manual system does not mean that you are working with pen and paper, it also include working on spread sheets and other simple software’s).
    - The present system is very less secure.
    - It is unable to generate different kinds of report.
    - It is difficult to identify the required product.
    - Description of the product obtained only on manually.
    - There domain is large and security problems will arise like fake product , cheating.
    - Accuracy not guaranteed.
    - Not in reach of distant users.

**2.3 PROPOSED SYSTEM**

* + - User friendliness is provided in the application with various controls.
    - Every Student Register with there Rollid’s, So it is easy to find the fraud.
    - The system makes the overall project management much easier and flexible.
    - It can be accessed over the Internet.
    - Various classes have been used to provide file upload and mail features.
    - There is no risk of data mismanagement at any level while the project development is under process.
    - It provides high level of security using different protocols like https etc.

**2.4 SYSTEM REQUIREMENTS**

**2.4.1 HARDWARE REQUIREMENTS**

* + - * Processor ]: Intel® Dual Core 2.0GHz minimum
      * Hard Disk : 100MB minimum
      * RAM : 1GB or More

**2.4.2 SOFTWARE REQUIREMENTS**

* + - * Operating System : Windows 2012 Server or later
      * Language : JSP
      * Database server : Oracle 10g Express Edition
      * Web Server : Apache Tomcat
      * Browser : Any latest browser like Chrome

**3. SYSTEM DESIGN**

**3.1 MODULE DESCRIPTION**

The system consists of 2 modules. They are:-

* + - * 1. Administrator
        2. User

**3.1.1 ADMINISTRATOR MODULE**

* + - * + An Admin can login in to the his Admin Home Page by typing username and password, and he can create, update, and delete a Users, Products or Others.
        + He can manage the website and give new Queries. And he can search for any thing from any where and can post the query.
    1. **USER MODULE**
* User needs to register using register page with validdetails
* User Login into homepage with valid username and password given during registration
* After login user can find allitems using allitems page.
* User can add items to his cart and favourite table.
* User can Signout and Delete his account using deleteacc and signout jsp pages.

**3.2 DATABASE TABLES**

**REGISTRATION DETAILS TABLE**

| **Column name** | **Data Type** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **UserName** | Varchar(30) | NOT NULL | Stores username of user |
| **RoolNumber** | bigint | NOT NULL | Stores roolno of user |
| **MailId** | varchar (50) | NOT NULL | stores mailid of the user |
| **Phonenumber** | varchar (50) | NOT NULL | stores phonenum of the user |
| **Password** | varchar (500) | NOT NULL | Street password of the user |

Table: 3.2.1:Registration Details Table

**LOGIN DETAILS TABLE**

| **Column name** | **Data Type** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **Rollnumber** | Varchar | Foreign  Key(RDetail.email) | Triggered from Udetail table when a new User is registered |
| **Pwd** | Varchar | Foreign  Key(Rdetail.Pwd) | Triggered from Udetail table when a new User is registered |

## Table: 3.2.2 Login Details Table

**ALLITEMS** **TABLE**

| **column name** | **Datatype** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **ItemName** | Varchar(20) | NOT NULL | Stores itemName of product |
| **Itemid** | int | NOT NULL | DBMS Automatically generates id for user |
| **Roolno** | Bigint | NOT NULL | Triggered from Rdetail table when a new User is Register |
| **Cost** | Int | NOT NULL | Stores cost of the category |
| **Description** | Varchar(50) | NOT NULL | Stores description of item |

## Table : 3.2.3 Allitems Table

**MYCART** **TABLE**

| **column name** | **Datatype** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **ItemID** | Varchar(20) | NOT NULL | Triggered from Allitems table when user upload a item. |

## Table : 3.2.4 : mycart details Table

**MYFAV** **TABLE**

| **column name** | **Datatype** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **ItemID** | Varchar(20) | NOT NULL | Triggered from Allitems table when user upload a item. |

## Table : 3.2.5 : myfav details Table

**ADMIN** **TABLE**

| **column name** | **Datatype** | **Constraint** | **Description** |
| --- | --- | --- | --- |
| **AdminID** | Varchar(20) | NOT NULL | Stores AdminID in admin table |
| **PassWord** | Varchar(10) | NOT NULL | Stores pass of admin in admin table |

## Table : 3.2.5 : Admin details Table

**3.3 UML DIAGRAMS**

**3.3.1 ACTIVITY DIAGRAMS**

An Activity diagram shows the flow from one activity to other activity within asystem. Activity diagrams illustrate the dynamic view of a system. Activity diagramsare especially important in modelling the function of a system.

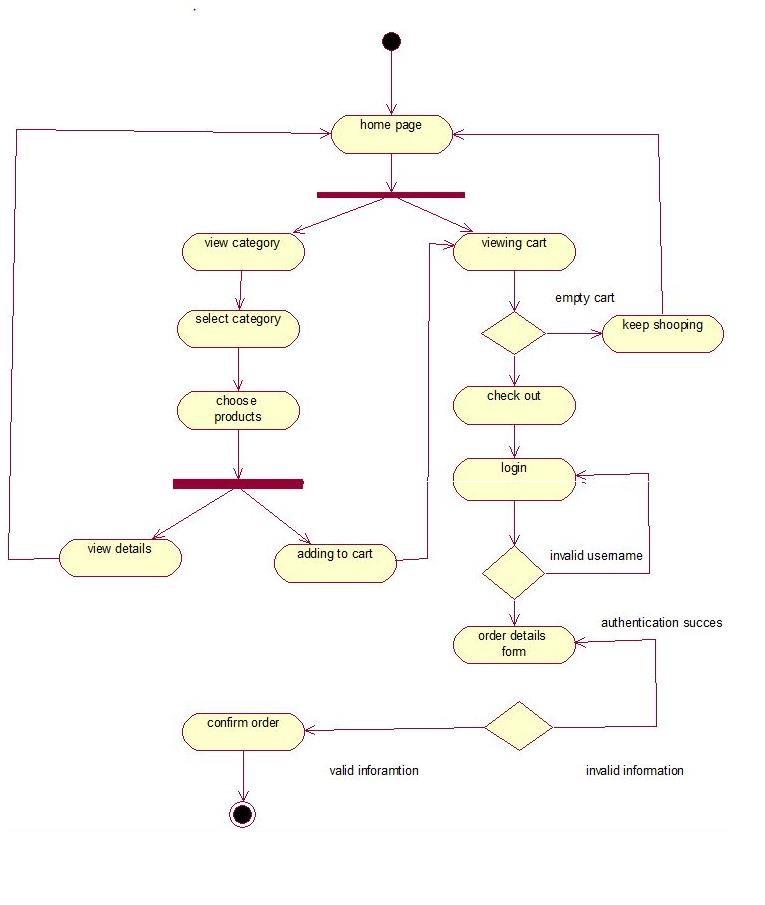


Fig : 3.3.1 : Activity Diagram

**3.3.2 USE CASE DIAGRAM**

A Use Case Diagram shows a set of use cases, actors and their relationships. Usecase diagrams illustrate the static use case view of a system. Use case diagrams areespecially important in organizing and modelling the behaviour of a system.

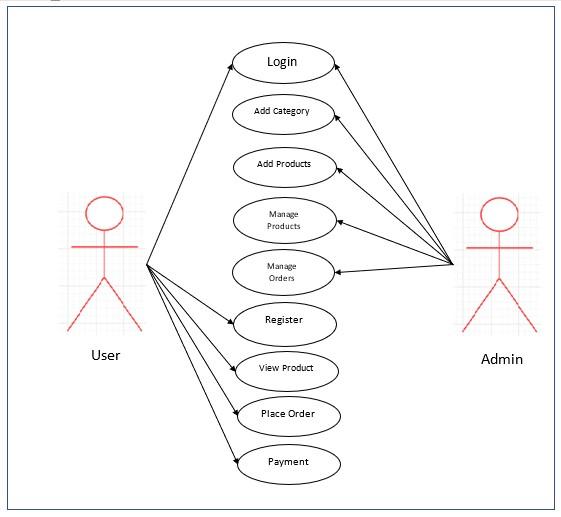


Fig : 3.3.2 : Use Case Diagram

**3.3.3 SEQUENCE DIAGRAM**

A Sequence diagram is an interaction diagram that emphasizes the time ordering ofmessages. A sequence diagram shows a set of objects and the messages sent andreceived by those objects. Sequence diagrams illustrate the dynamic view of a system.

**3.3.3.1 ADMIN**



Fig : 3.3.3.1 : Admin Sequence Diagram

**3.3.3.2 USER**

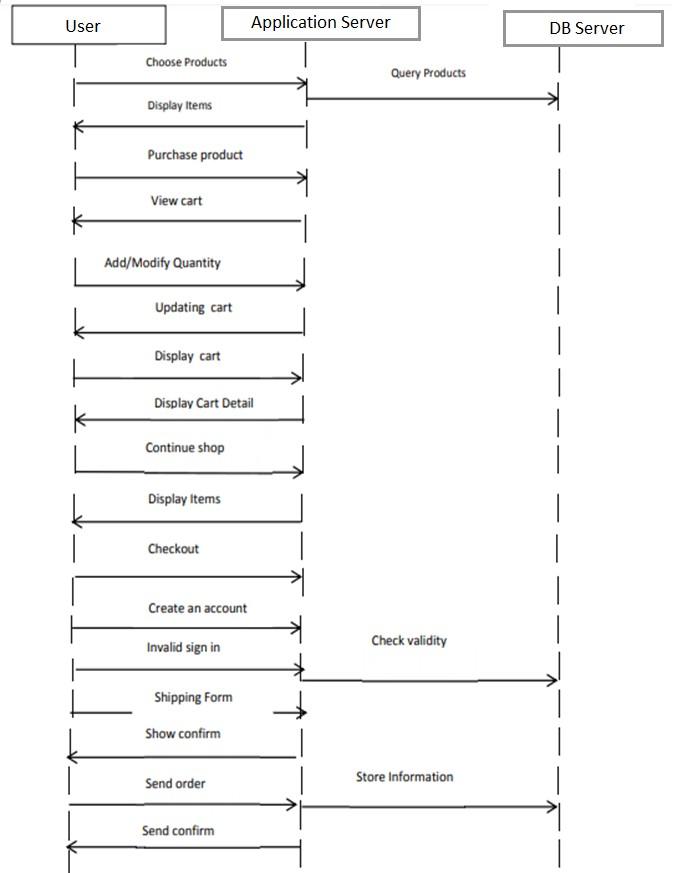


Fig : 3.3.3.2 : User Sequence Diagram

**3.3.4 Class Diagram**



**33.6 Deployment Diagram**

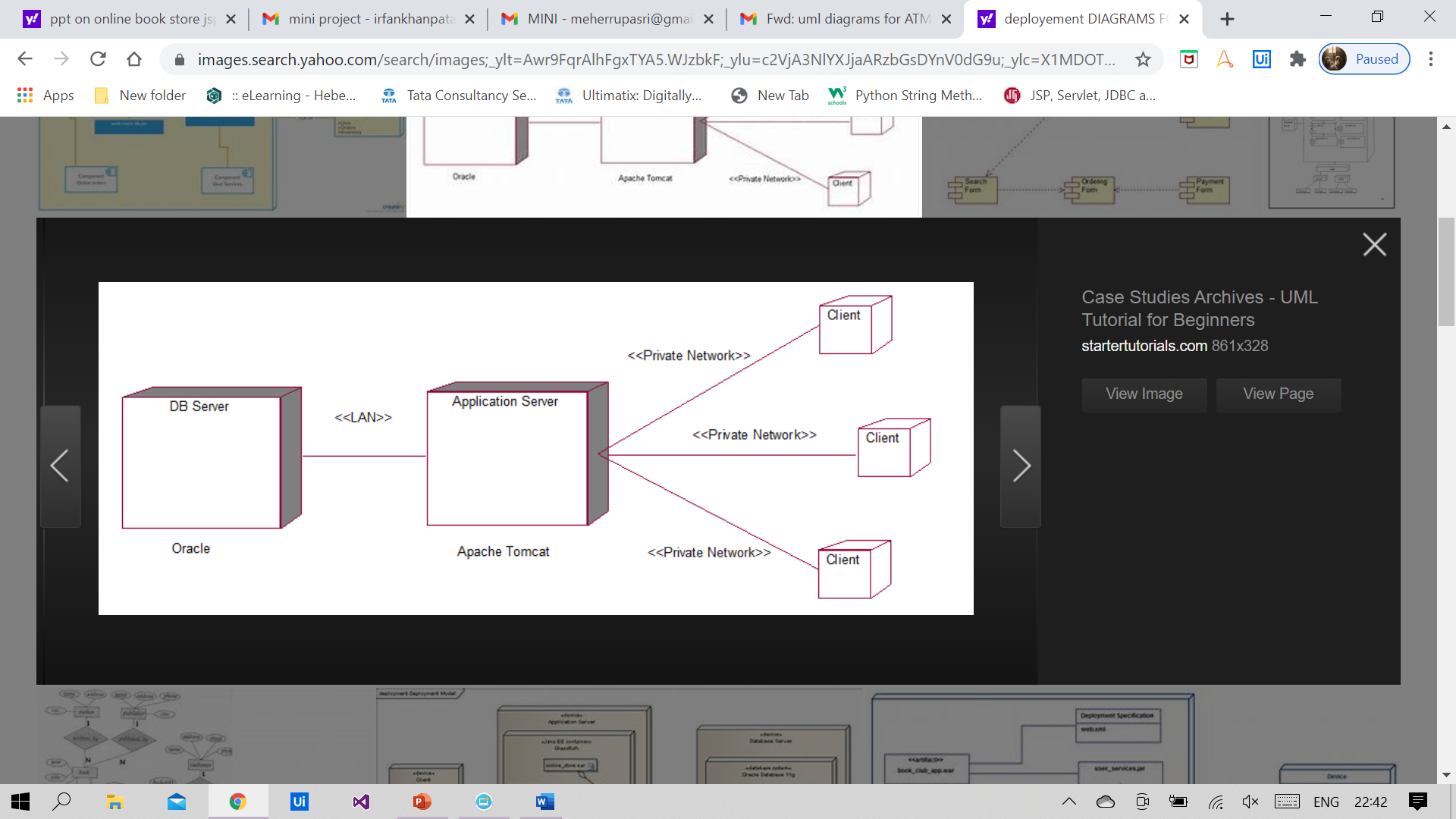
****

Fig : 3.3.5 : Deployment Diagram

**4.IMPLEMENTATION**

**SAMPLE CODE**

**Registration.JSP**

<%@page contentType="text/html" pageEncoding="UTF-8"%>

<%@ page import ="java.lang.String.\*"%>

<%@ page import ="java.sql.\*"%>

<%@ page import ="oracle.jdbc.driver.\*" %>

<%@ page import ="oracle.sql.\*" %>

<html>

<head>

<meta http-equiv="Content-Type" content="Text/html; charset=UTF-8">

<%

try

{ String rollno=(String)session.getAttribute("ROLLNO");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","irfan");

Statement st=con.createStatement();

int i=st.executeUpdate("delete from allusers1 where roolno='"+rollno+"'");

int j=st.executeUpdate("drop table myfav"+rollno);

int k=st.executeUpdate("delete from allitems where roolno='"+rollno+"'");

int l=st.executeUpdate("drop table mycart"+rollno);

session.setAttribute("ROLLNO","");

}

catch(Exception e)

{

}

%>

<style>

body {

margin:0;

padding:0;

font-family: sans-serif;

background: linear-gradient(#00bf8f,#001510);

min-height: 100vh;

display: flex;

align-items: center;

justify-content: center;

}

.login-box {

width: 400px;

padding: 40px;

background: rgba(0,0,0,0);

box-sizing: border-box;

box-shadow: 0 15px 25px rgba(0,0,0,.6);

border-radius: 10px;

}

.login-box h2 {

margin: 0 0 30px;

padding: 0;

color: #fff;

text-align: center;

}

.login-box .user-box {

position: relative;

}

.login-box .user-box input {

width: 100%;

padding: 10px 0;

font-size: 16px;

color: #fff;

margin-bottom: 30px;

border: none;

border-bottom: 1px solid #fff;

outline: none;

background: transparent;

}

.login-box .user-box label {

position: absolute;

top:0;

left: 0;

padding: 10px 0;

font-size: 16px;

color: #fff;

pointer-events: none;

transition: .5s;

}

.login-box .user-box input:focus ~ label,

.login-box .user-box input:active ~ label{

top: -20px;

left: 0;

color: #03e9f4;

font-size: 12px;

}

.a {

position: relative;

display: inline-block;

padding: 10px 20px;

color: #03e9f4;

font-size: 16px;

text-decoration: none;

text-transform: uppercase;

overflow: hidden;

transition: .5s;

margin-top: 40px;

letter-spacing: 4px

}

.a:hover {

background: #03e9f4;

color: #fff;

border-radius: 5px;

box-shadow: 0 0 5px #03e9f4,

0 0 25px #03e9f4,

0 0 50px #03e9f4,

0 0 100px #03e9f4;

}

.a span {

position: absolute;

display: block;

}

.a span:nth-child(1) {

top: 0;

left: -100%;

width: 100%;

height: 2px;

background: linear-gradient(90deg, transparent, #03e9f4);

animation: btn-anim1 1s linear infinite;

}

@keyframes btn-anim1 {

0% {

left: -100%;

}

50%,100% {

left: 100%;

}

}

.a span:nth-child(2) {

top: -100%;

right: 0;

width: 2px;

height: 100%;

background: linear-gradient(180deg, transparent, #03e9f4);

animation: btn-anim2 1s linear infinite;

animation-delay: .25s

}

@keyframes btn-anim2 {

0% {

top: -100%;

}

50%,100% {

top: 100%;

}

}

.a span:nth-child(3) {

bottom: 0;

right: -100%;

width: 100%;

height: 2px;

background: linear-gradient(270deg, transparent, #03e9f4);

animation: btn-anim3 1s linear infinite;

animation-delay: .5s

}

@keyframes btn-anim3 {

0% {

right: -100%;

}

50%,100% {

right: 100%;

}

}

.login-box .a span:nth-child(4) {

bottom: -100%;

left: 0;

width: 2px;

height: 100%;

background: linear-gradient(360deg, transparent, #03e9f4);

animation: btn-anim4 1s linear infinite;

animation-delay: .75s

}

@keyframes btn-anim4 {

0% {

bottom: -100%;

}

50%,100% {

bottom: 100%;

}

}

#but {

background-color: Transparent;

background-repeat:no-repeat;

border: none;

cursor:pointer;

overflow: hidden;

}

</style>

</head>

<body>

<div class="login-box">

<h2>Register</h2>

<form id="myform" action="login.jsp">

<div class="user-box">

<input type="text" id="unn" name="un">

<label>Username</label>

</div>

<div class="user-box">

<input type="text" id="rnn" name="rn">

<label>Roll Number</label>

</div>

<div class="user-box">

<input type="text" id="mii" name="mi">

<label>Mail Id</label>

</div>

<div class="user-box">

<input type="text" id="pnn" name="pn">

<label>Phone Number</label>

</div>

<div class="user-box">

<input type="password" id="passs" name="pass">

<label>Password</label>

</div>

<div class="user-box">

<input type="password" id="cpasss" name="cpass">

<label>Retype Password</label>

</div>

<button id="sub" style="background-color: #ffffff; opacity: .4;margin-left:900px;"></button>

</form>

<div class="a">

<span></span>

<span></span>

<span></span>

<span></span>

<button id="but" onclick="myfun()" >Sign Up</button>

</div>

<br>

<br>

<span>Already had an account ? </span>

<br>

<div class="a">

<span></span>

<span></span>

<span></span>

<span></span>

<a href='login.jsp' class="button">Signin</a>

</div>

<script>

function myfun(){

var rn=document.getElementById('rnn').value.length;

var mi=document.getElementById('mii').value.length;

var pn=document.getElementById('pnn').value.length;

var pass=document.getElementById('passs').value;

var cpass=document.getElementById('cpasss').value;

if(rn==10){

if(mi>10){

if(pn==10){

if(pass==cpass){

document.getElementById('myform').submit();

}

else{alert("password not matches");}

}

else{alert("enter valid phone num");

}

}

else{alert("enter valid mail id");}

}

else{alert("enter valid rollno");}

}

</script>

</body>

</html>

**Homepage.JSP**

<%@ page import ="java.lang.String.\*"%>

<%@ page import ="java.sql.\*"%>

<%@ page import ="oracle.jdbc.driver.\*" %>

<%@ page import ="oracle.sql.\*" %>

<head>

<meta charset="UTF-8">

<title>How to Create responsive Homepage</title>

<style>

\* {

margin: 0;

padding: 0;

}

body {

font-family: 'Poppins', sans-serif;

}

.wrapper {

width: 1170px;

margin: auto;

}

header {

/\*background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url("bgpic.jpg");\*/

background: linear-gradient(#00bf8f,#001510);

height:100vh;

-webkit-background-size: cover;

background-size: cover;

backgroun d-position: center center;

position: relative;

}

.main {

/\*background: linear-gradient(rgba(0, 0, 0, 0.8), rgba(0, 0, 0, 0.8)), url("bgpic.jpg");\*/

background: linear-gradient(#00bf8f,#001510);

height: 100vh;

-webkit-background-size: cover;

background-size: cover;

backgroun d-position: center center;

position: relative;

}

.nav-area {

float: right;

list-style: none;

margin-top: 30px;

}

.nav-area li {

display: inline-block;

}

.nav-area li a {

color: #fff;

text-decoration: none;

padding: 5px 20px;

font-family: poppins;

font-size: 16px;

text-transform: uppercase;

}

.nav-area li a:hover {

background: #03e9f4;

color: #fff;

border-radius: 5px;

box-shadow: 0 0 5px #03e9f4,

0 0 25px #03e9f4,

0 0 50px #03e9f4,

0 0 100px #03e9f4;

}

.login-box a span {

position: absolute;

display: block;

}

}

.logo {

float: left;

color:pink;

text-align: center;

}

.welcome-text {

position: absolute;

width: 200px;

height: 300px;

}

.welcome-text h3 {

text-align: center;

color: #fff;

text-transform: uppercase;

}

.welcome-text h1 span {

color: #00fecb;

}

.welcome-text a{

color: #fff;

border:1px solid white;

text-decoration: none;

padding: 5px 20px;

font-family: poppins;

font-size: 16px;

text-transform: uppercase;

}

.welcome-text a:hover {

background: #03e9f4;

color: #fff;

border-radius: 5px;

box-shadow: 0 0 5px #03e9f4,

0 0 25px #03e9f4,

0 0 50px #03e9f4,

0 0 100px #03e9f4;

}

.welcome-text a:hover {

background: #fff;

color: #333;

}

a{

padding-right:10px;

}

/\*resposive\*/

/\* @media (max-width:600px) {

.wrapper {

width: 100%;

}

.logo {

float: none;

width: 50%;

text-align: center;

margin: auto;

}

.nav-area {

float: none;

margin-top: 0;

}

.nav-area li a {

padding: 5px;

font-size: 11px;

}

.nav-area {

text-align: center;

}

.welcome-text {

width: 100%;

height: auto;

margin: 30% 0;

}

.welcome-text h3 {

font-size: 30px;

}

} \*/

</style>

</head>

<%String r=request.getParameter("rn"),p=request.getParameter("ps");

try{

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","irfan");

Statement st=con.createStatement();

ResultSet rs=st.executeQuery("select \* from allusers1 where roolno='"+r+"' AND password='"+p+"'");

if(rs.next())

{session.setAttribute("ROLLNO",r);

%>

<body>

<header><div ><div class='welcome-text'><h3><%=r%><br>(<%=rs.getString(2)%>)</h3></div>

<ul class='nav-area'><li>

<a href='myfav.jsp' target="go">My Fav</a></li>

<li><a href='allitems.jsp' target="go">Find Items</a></li>

<li><a href='https://www.jaspertronics.com/pages/googledriven?msclkid=7f85d4d8aa7016a3df32b4c9857dd7eb' target="go">My Cart</a></li>

<li><a href='about.jsp' target="go">About</a></li>

<li><a href='homepage.jsp'>Signout</a></li>

<li><a href='upload.jsp' target="go">Upload</a></li>

<li><a href='myitems.jsp' target="go">myitems</a></li>

<li><a href='homepage.jsp'>Delete Account</a></li>

</ul>

</div>

<div>

<iframe name="go" style="width:100%; height:100%"></iframe>

</div>

</header>

</body>

<%

}

else{

session.setAttribute("TYPE","invaliduser");

con.close();

response.sendRedirect("login.jsp");

}

}

catch(Exception e){

System.out.println(e);

}

%>

</body>

**Upload.jsp:**

`<%@ page import ="java.lang.String.\*"%>

<%@ page import ="java.sql.\*"%>

<head>

<style>

\*, \*:before, \*:after {

box-sizing: inherit;

}

.u-clearfix:before,

.u-clearfix:after {

content: " ";

display: table;

}

.u-clearfix:after {

clear: both;

}

.u-clearfix {

\*zoom: 1;

}

.subtle {

color: #aaa;

}

.card-container {

margin: 25px auto 0;

position: relative;

width: 400px;

height:300px;

display:inline-block;

margin-right:10px;

margin-bottom:140px;

}

.card {

background-color: #fff;

padding: 30px;

position: relative;

box-shadow: 0 0 5px rgba(75, 75, 75, .07);

z-index: 1;

}

.card-body {

display: inline-block;

float: left;

width: 250px;

}

.card-number {

margin-top: 15px;

}

.card-circle {

border: 1px solid #aaa;

border-radius: 50%;

display: inline-block;

line-height: 22px;

font-size: 12px;

height: 25px;

text-align: center;

width: 25px;

}

.card-author {

display: block;

font-size: 12px;

letter-spacing: .5px;

margin: 15px 0 0;

text-transform: uppercase;

}

.card-title {

font-family: 'Cormorant Garamond', serif;

font-size: 60px;

font-weight: 300;

line-height: 60px;

margin: 10px 0;

}

.card-description {

display: inline-block;

font-weight: 300;

line-height: 22px;

margin: 10px 0;

}

.card-read {

cursor: pointer;

font-size: 18px;

font-weight: 500;

float:left;

position: relative;

text-align: right;

text-transform: uppercase;

}

.card-tag {

float: right;

margin: 5px 0 0;

}

.card-media {

align:;

float:right;

height:30%;

width:30%;

}

.card-shadow {

background-color: #fff;

box-shadow: 0 2px 25px 2px rgba(0, 0, 0, 1), 0 2px 50px 2px rgba(0, 0, 0, 1), 0 0 100px 3px rgba(0, 0, 0, .25);

height: 1px;

margin: -1px auto 0;

width: 80%;

z-index: -1;

}

\* {

margin: 0;

padding: 0;

}

.card-description subtle {

margin: 25px auto 0;

position: relative;

width: 10px;

height:10px;

display:inline-block;

margin-right:10px;

margin-bottom:20px;

}

</style>

</head>

<body style="background-color:#fffafa;">

<%@ page contentType="text/html" pageEncoding="UTF-8"%>

<%@ page import ="java.lang.String.\*"%>

<%@ page import ="java.sql.\*"%>

<!DOCTYPE html>

<html>

<head>

<%String query;

String item,cost,des,roll,t;

int size=0;

cost=(String)request.getParameter("c");

des=(String)request.getParameter("d");

item=(String)request.getParameter("items");

try

{

roll=(String)session.getAttribute("ROLLNO");

Class.forName("oracle.jdbc.driver.OracleDriver");

Connection con=DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:xe","system","irfan");

if(item!=null){

Statement st1=con.createStatement();

ResultSet rs=st1.executeQuery("select itemid from allitems");

while(rs.next()){

size=rs.getInt(1);

}

size=size+1;

PreparedStatement mystatement = con.prepareStatement("insert into allitems values(?,?,?,?,?)");

t=""+size;

mystatement.setString(1,t);

mystatement.setString(2, cost);

mystatement.setString(3, roll);

mystatement.setString(4, item);

mystatement.setString(5, des);

int j=mystatement.executeUpdate();

Statement st2=con.createStatement();

ResultSet rs2=st2.executeQuery("select \* from allitems where roolno='"+roll+"'");

while(rs2.next()){out.println("<div class='card-container'><div class='card u-clearfix'><div class='card-body'><span class='card-number card-circle subtle' id='data' >"+rs2.getString(1)+"</span> <img id='img'src='https://images-na.ssl-images-amazon.com/images/I/41kf1lhWdpL.jpg' alt='' class='card-media''/><span class='card-author subtle'>"+rs2.getString(3)+"</span><h2 class='card-title'>"+rs2.getString(4)+"</h2><span class='card-description subtle'>"+rs2.getString(5)+".</br></span><div class='card-read'>Cost :"+rs2.getString(2)+"rs</div></div></div><div class='card-shadow'></div></div>");}

con.close();

}

else{

Statement st2=con.createStatement();

ResultSet rs2=st2.executeQuery("select \* from allitems where roolno='"+roll+"'");

while(rs2.next()){out.println("<div class='card-container'><div class='card u-clearfix'><div class='card-body'><span class='card-number card-circle subtle' id='data' >"+rs2.getString(1)+"</span> <img id='img'src='https://images-na.ssl-images-amazon.com/images/I/41kf1lhWdpL.jpg' alt='' class='card-media''/><span class='card-author subtle'>"+rs2.getString(3)+"</span><h2 class='card-title'>"+rs2.getString(4)+"</h2><span class='card-description subtle'>"+rs2.getString(5)+".</br></span><div class='card-read'>Cost :"+rs2.getString(2)+"rs</div></div></div><div class='card-shadow'></div></div>");}

con.close();

}

}

catch(Exception e)

{

out.println(e);

}

%></body

1. **TESTING AND TEST CASES**

**5.1 INTRODUCTION**

One of the purposes of the testing is to validate and verify the system.Verification means checking the system to ensure that it is doing what the function is supposed to do and Validation means checking to ensure that system is doing what the user wants it to do.

No program or system design is perfect; communication between the user and the designer is not always complete or clear, and time is usually short. The result is errors and more errors. Theoretically, a newly designed system should have all the pieces in working order, but in reality, each piece works independently. Now is the time to put all the pieces into one system and test it to determine whether it meets the user's requirements. This is the best chance to detect and correct errors before the system is

implemented. The purpose of system testing is to consider all the likely variations to which it will be subjected and then push the system to its limits. If we implement the system without proper testing then it might cause the problems.

1. Communication between the user and the designer.
2. The programmer's ability to generate a code that reflects exactly the system specification.
3. The time frame for the design Theoretically, a new designed system should have all the pieces in working order, but in reality, each piece works independently. Now is the time to put all the pieces into one system and test it to determine whether it meets the requirements of the user. The process of system testing and the steps taken to validate and prepare a system for final implementation are:
   1. **TESTING STRATEGIES**

In order to make sure that the system does not have errors, the different levels of testing strategies that are applied at differing phases of software development are:

* 1. **UNIT TESTING**

Unit testing involves the design of test cases that validate that the internal program logic is functioning properly, and that program inputs produce valid outputs.

All decision branches and internal code flow should be validated. It is the testing of individual software units of the application .It is done after the completion of an individual unit before integration.

* 1. **INTEGRATION TESTING**

In Integration Testing, the different units of the system are integrated together to form the complete system and this type of testing checks the system as whole to ensure that it is doing what is supposed to do. The testing of an integrated system can be carried out top-down, bottom-up, or big-bang. In this type of testing, some parts will be tested with white box testing and some with black box testing techniques. This type of testing plays very important role in increasing the systems productivity. We have checked our system by using the integration testing techniques.

**VERIFICATION TESTING**

In Verification Testing, the different units of system are verified together whether the exact output to the system is existing or not.

**VALIDATION TESTNG**

In Validation Testing ,software validation is achieved through a series of blackbox tests that demonstrate conformity with the requirements .After each validation test case has been conducted ,one or two possible conditions exists:

1.The function or performance characteristics conform to specification and are accepted.

2.A deviation from specification is uncovered and a deficiency list is created.

**5.5 SYSTEM TESTING**

Apart from testing the system to validate the functionality of software against the requirements, it is also necessary to test the non-functional aspect of the system. Some examples of non-functional tools include tests to check performance, data security, usability/user friendliness, volume, load/stress that we have used in our project to test the various modules. System testing consists of the following steps:

1. Program(s) testing.
2. String testing.
3. System testing.
4. System documentation.
5. User acceptance testing.

| **Input** | **Expected behaviour** | **Observed behaviour** | **Status** |
| --- | --- | --- | --- |
| **invalid username and password** | AlertBOx:  valid username and  password | Invalid USer | Success |
| **valid username**  **and valid password** | Successfully Open homepage | valid user | Success |

## Table : 5 .1 Test cases data

| **Input** | **Expected behaviour** | **Observed behaviour** | **Status** |
| --- | --- | --- | --- |
| **Enter valid usname&mail&**  **&pass are matched&phone number is 10 digits&uID 10 digits** | Successfully open Login Page | Valid Details | Success |
| **Enter Invalid usname&mail&**  **&pass are notmatched&phone number is not 10 digits&uID is not 10 digits** | Alert Box:  Please enter Valid Details | Invalid user | Success |

## Table : 5.2 Test cases data

**Testcase 1: User login**

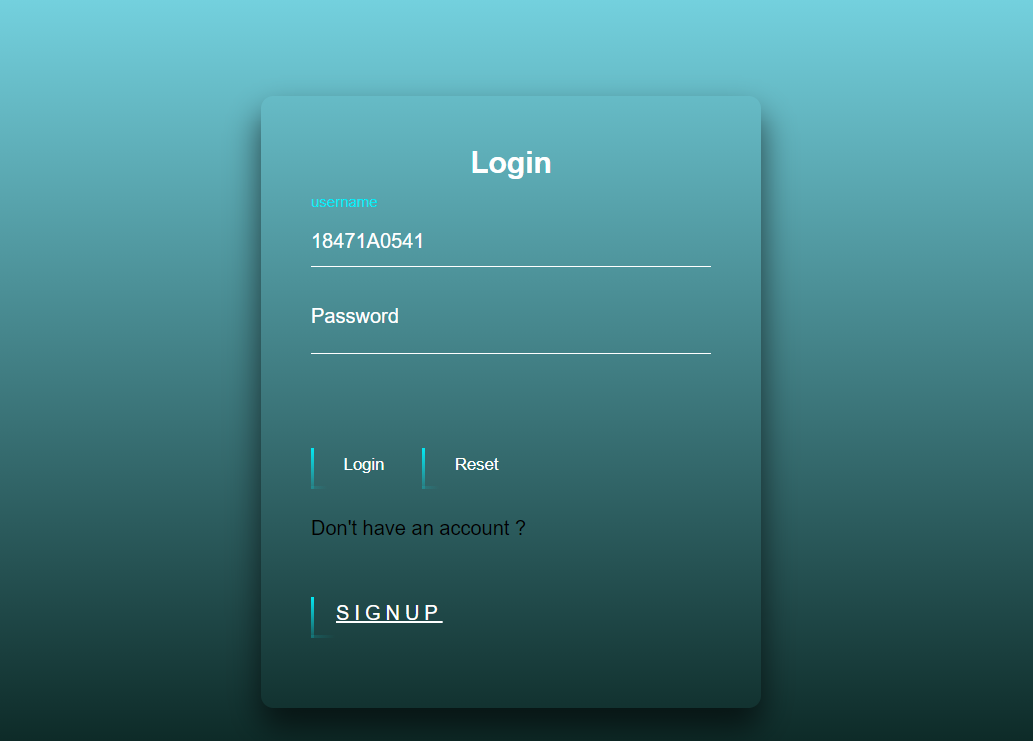
**Scenario 1:**

**Input** : valid user name and password

**Expected behaviour** : Successful login

**Actual behaviour**: Successful login

**Status**: Pass





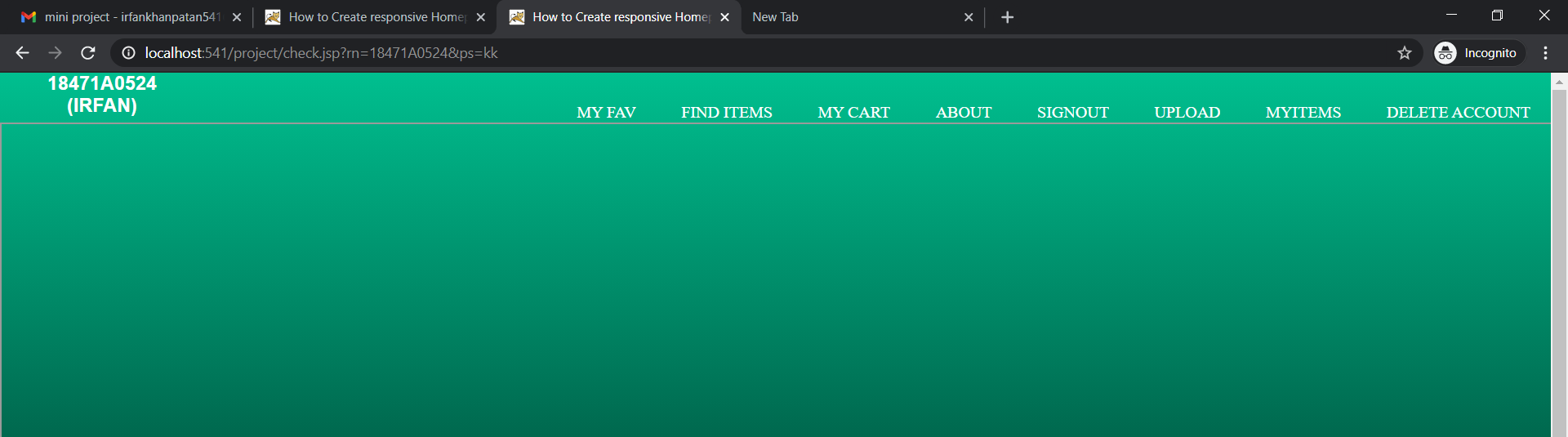


Fig:5.2:user login test case

**Scenario 2:**

**Input** : Invalid username and valid password

**Expected behaviour**: Please enter valid username

**Actual behaviour**: Enter valid username

**Status**:Passed

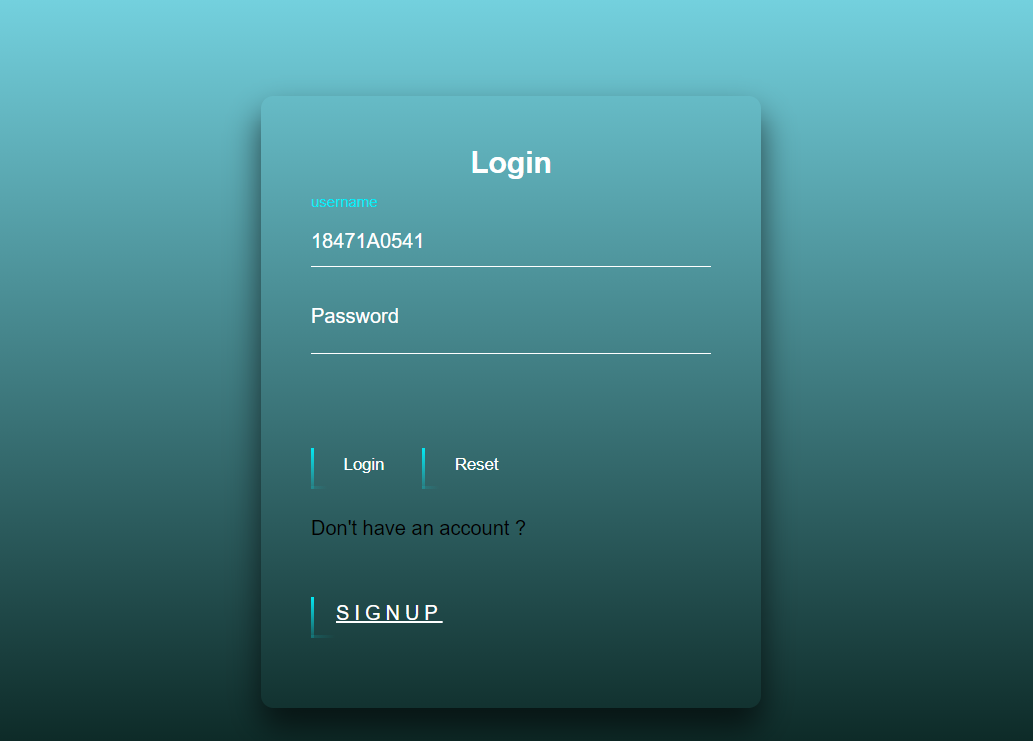
****

Fig:5.3 user login test

**Test Case:2**

**Scenario 1:**

**Input** : Valid alldetails

**Expected behaviour** : Enter to login page(Successfully Register)

**Actual behaviour**: Enter to login page (Successfully Register)

**Status**: Pass

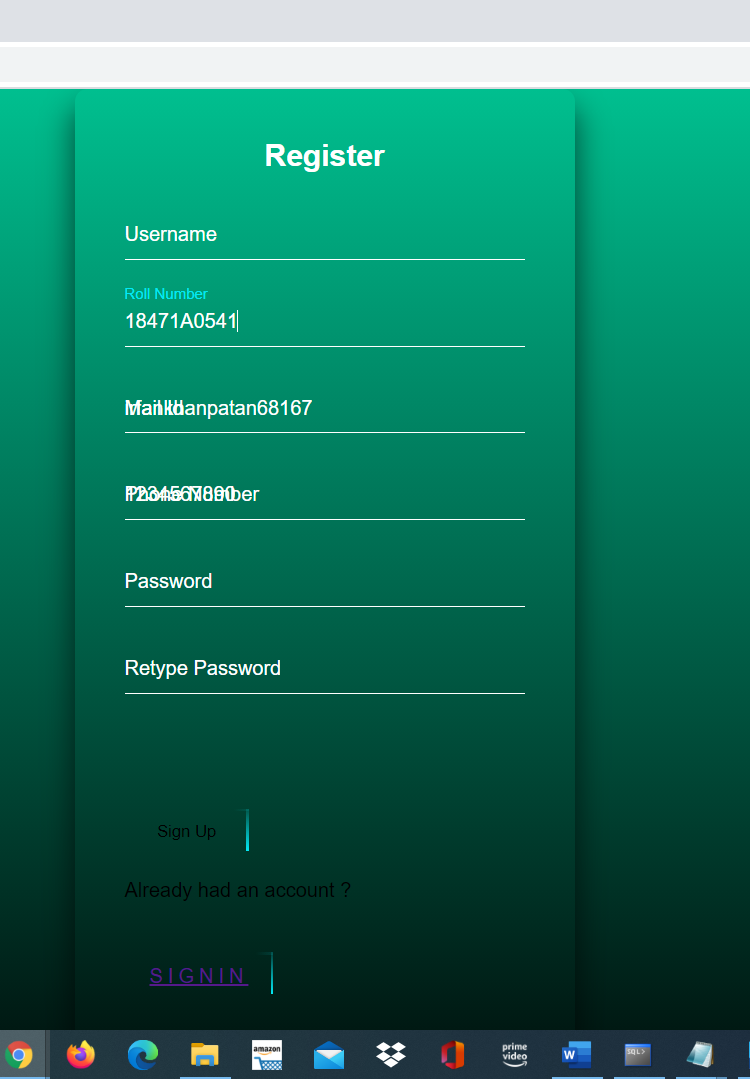
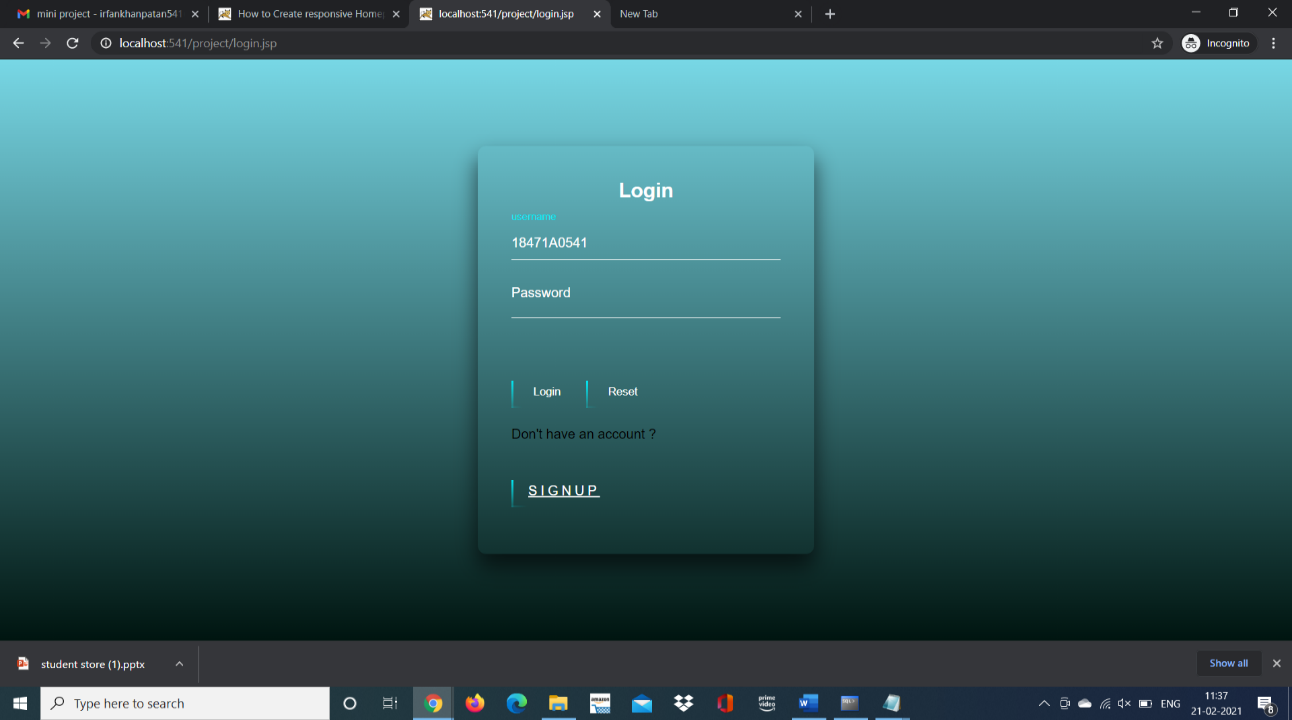
****

Fig:5.4:Registration test case 

Fig:5.5:Registration test case

**Scenario 2:**

**Input** : Invalid Mail

**Expected behaviour** : alert box: Enter Valid MailID

**Actual behaviour**: alert box: Enter Valid MailID

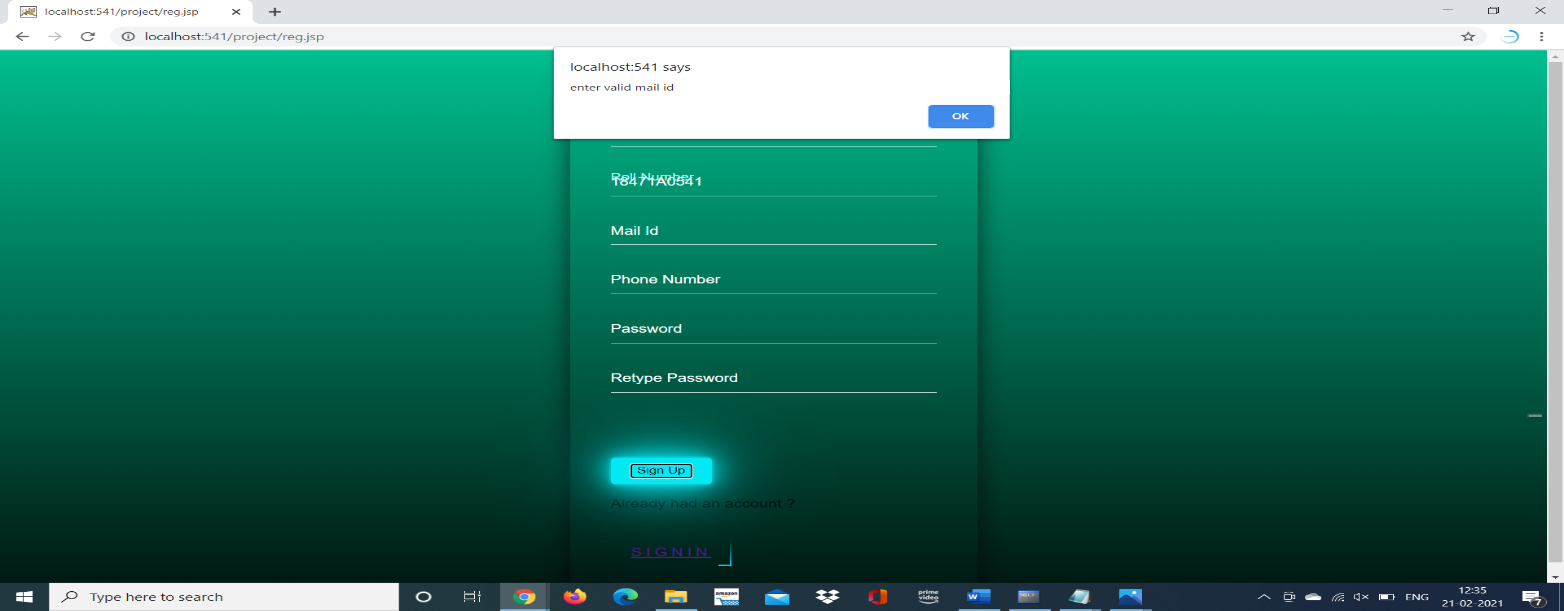


Fig:5.6:Registration test case

**Scenario 2:**

**Input** : Invalid Phonenumber

**Expected behaviour** : alert box-Enter Valid phonenumber

**Actual behaviour**: alert box-Enter Valid phonenumber

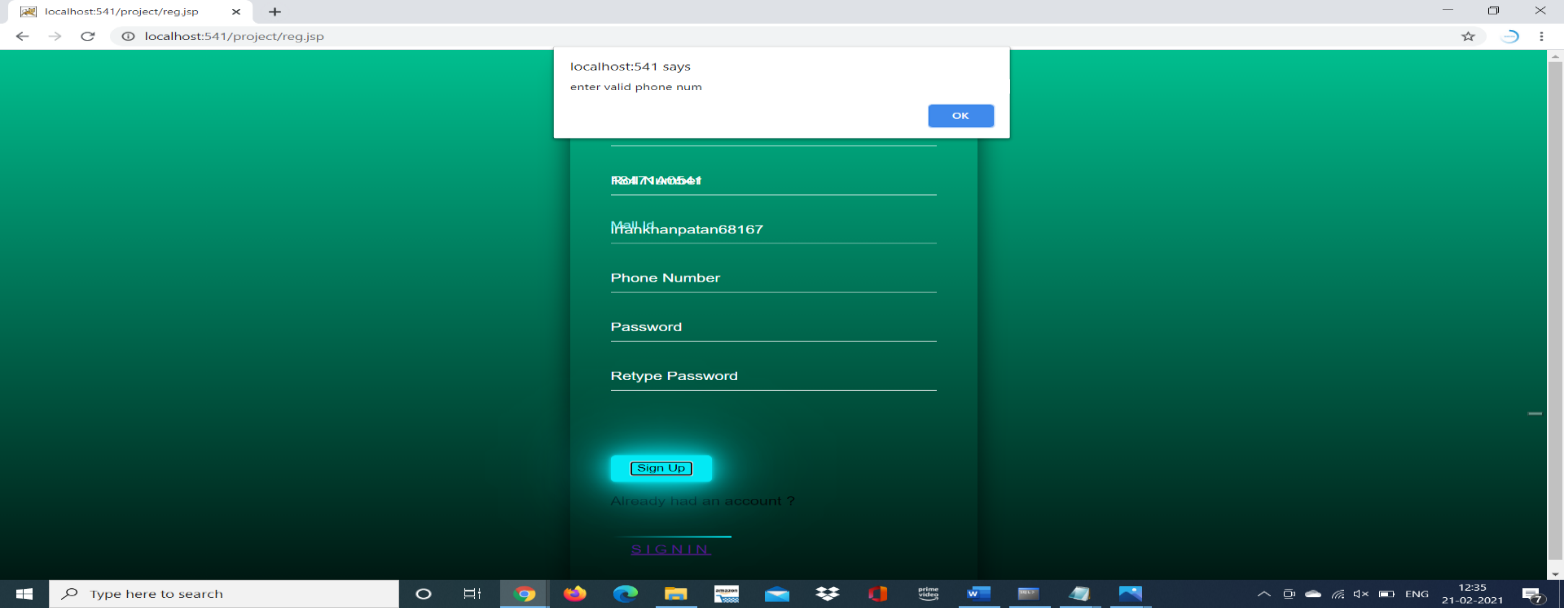


Fig:5.7:Registration test case

**Scenario 2:**

**Input** : Pass not matches

**Expected behaviour** : alert box-Password not matches

**Actual behaviour**: alert box-Password not matches

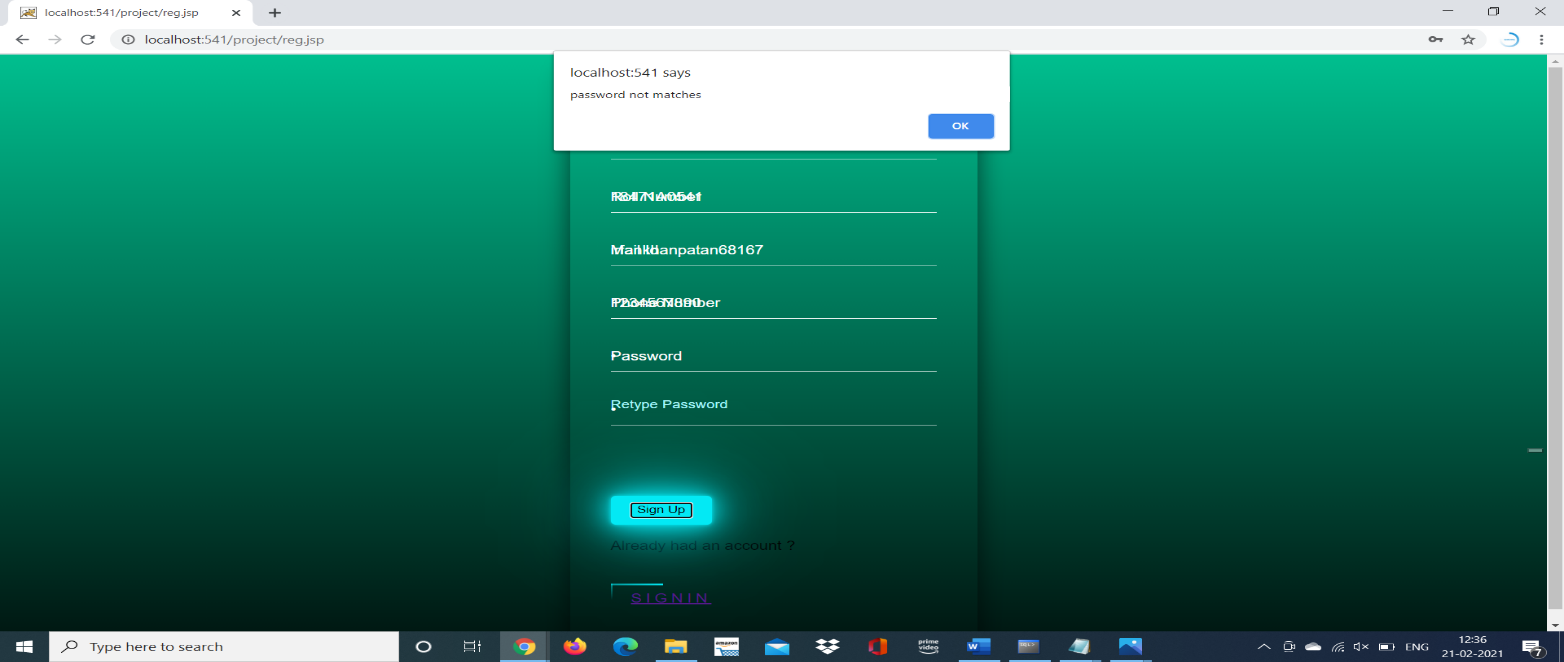


Fig:5.8:Registration test case

1. **OUTPUT SCREENS** 
   1. **HOME PAGE**

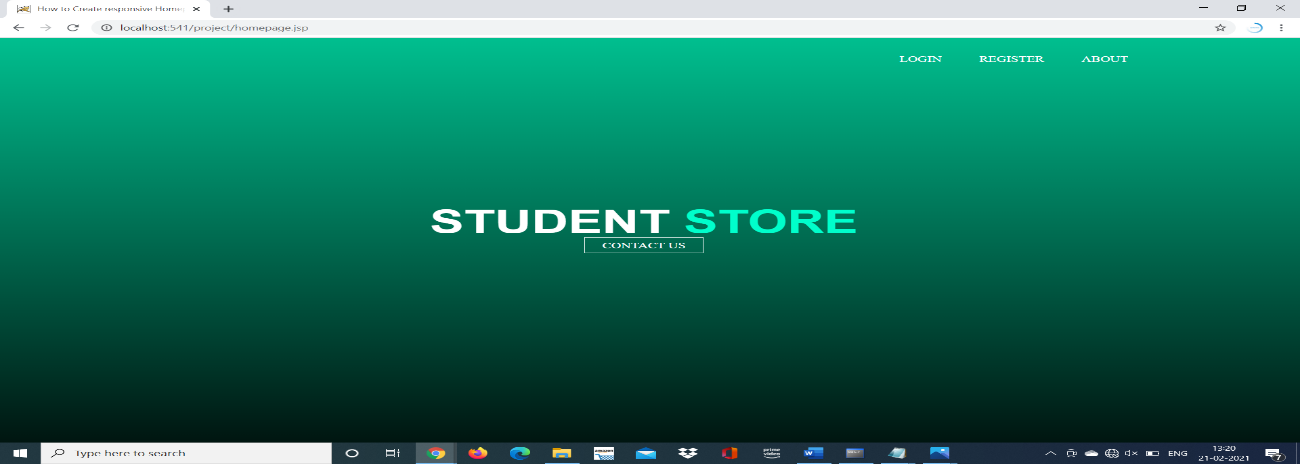


Fig : 6.1 : Home Page

**6.2 Login Page**

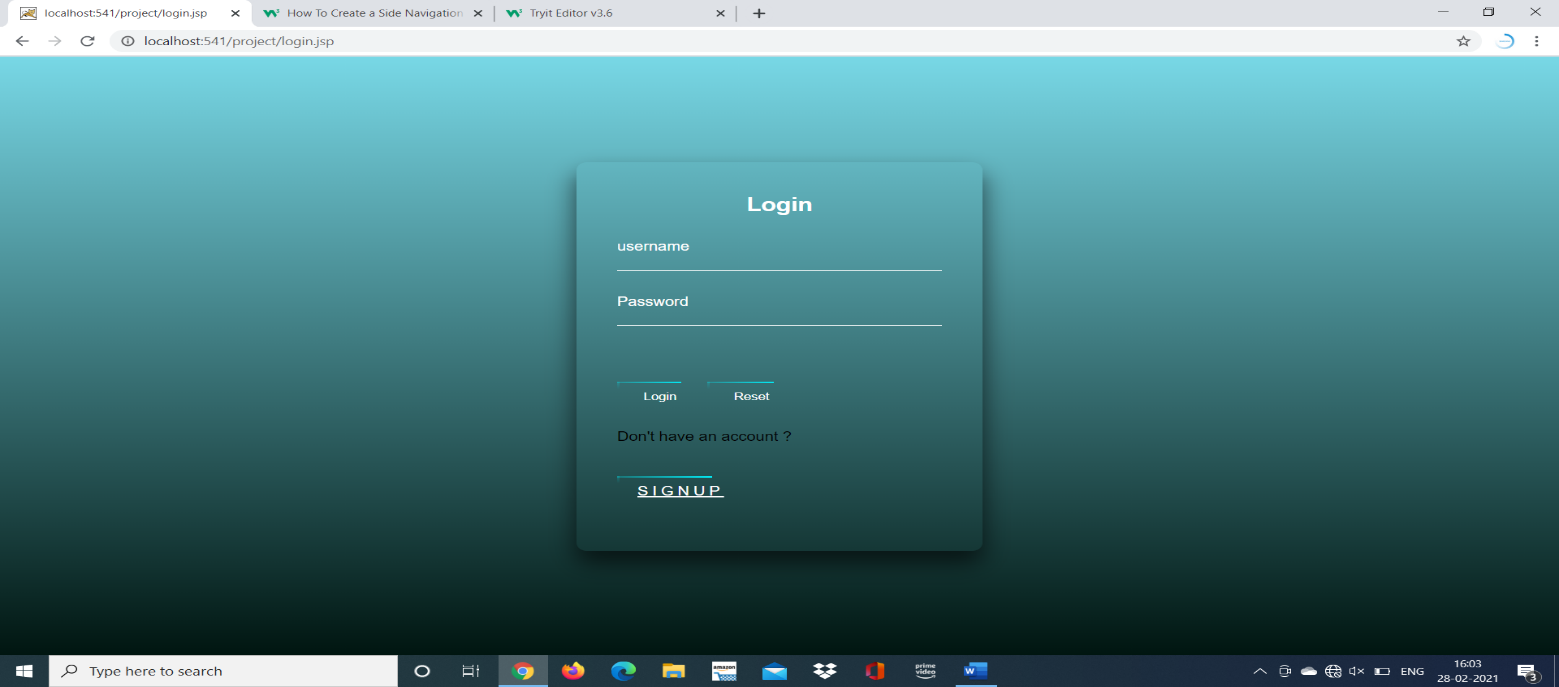


Fig : 6.2 : Login Page

**6.3 REGISTRATION PAGE**

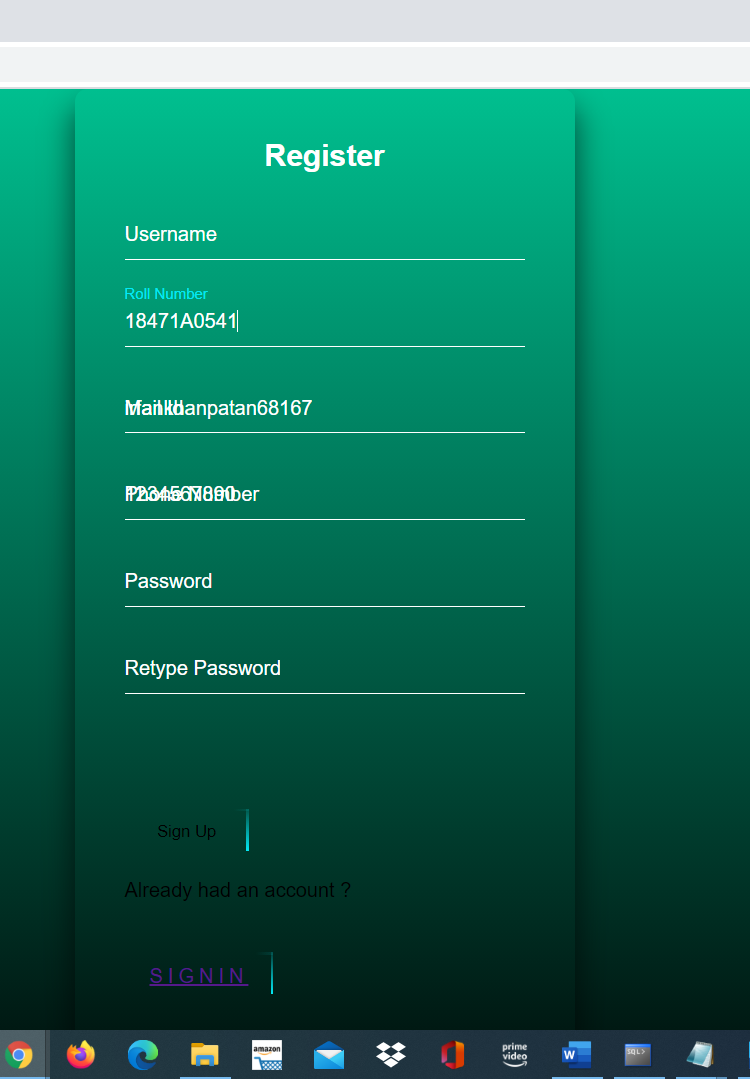


Fig : 6.3 : Registration Page

**6.4 MAINPAGE PAGE**

# 

Fig : 6.4 : Main Page

**6.5 Upload Page**

# 

Fig : 6.5 : Upload Page

**6.6 MYCART PAGE**

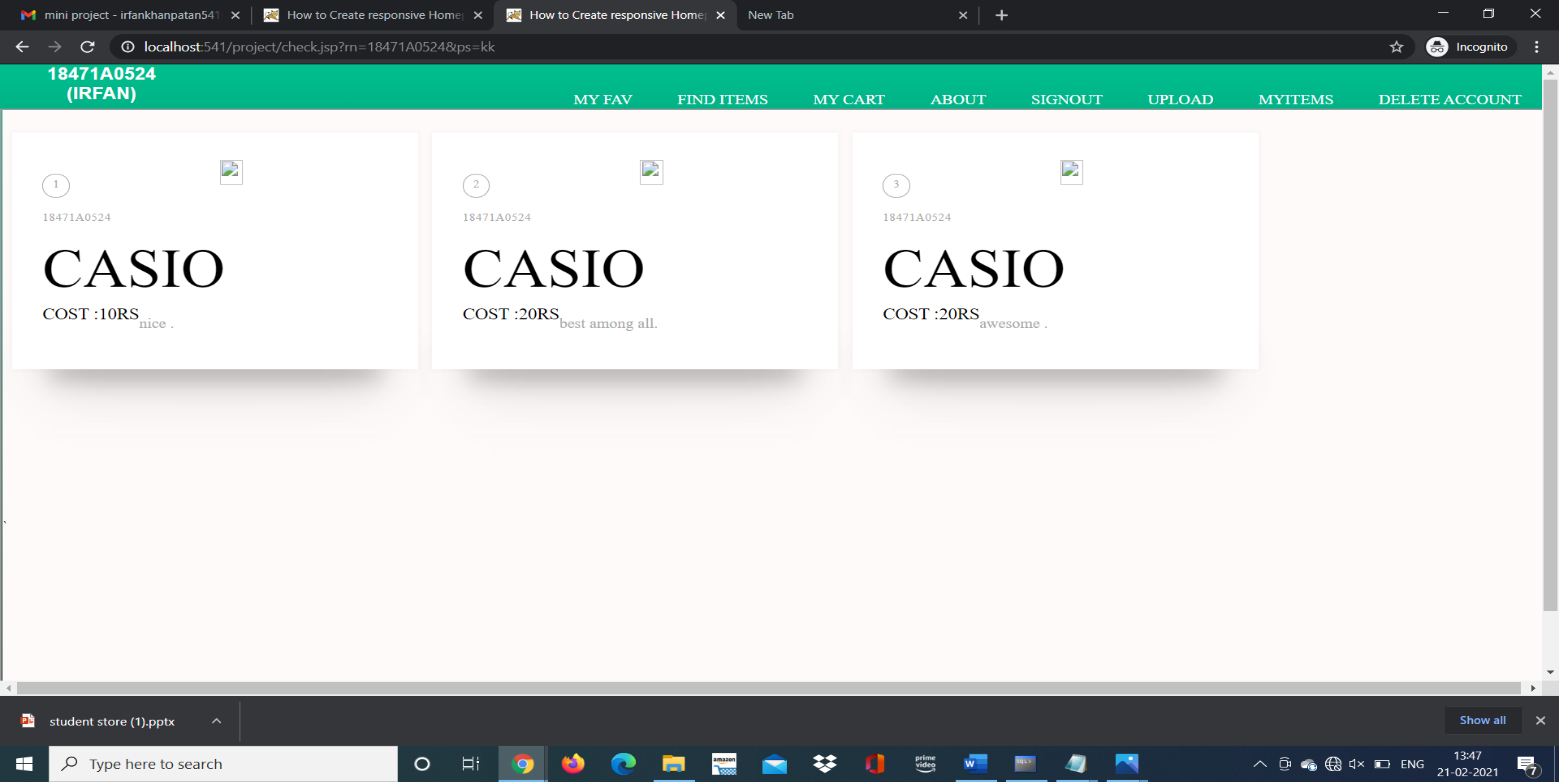


Fig : 6.6 : MyCartPage

**6.7 ALL ITEMS PAGE**

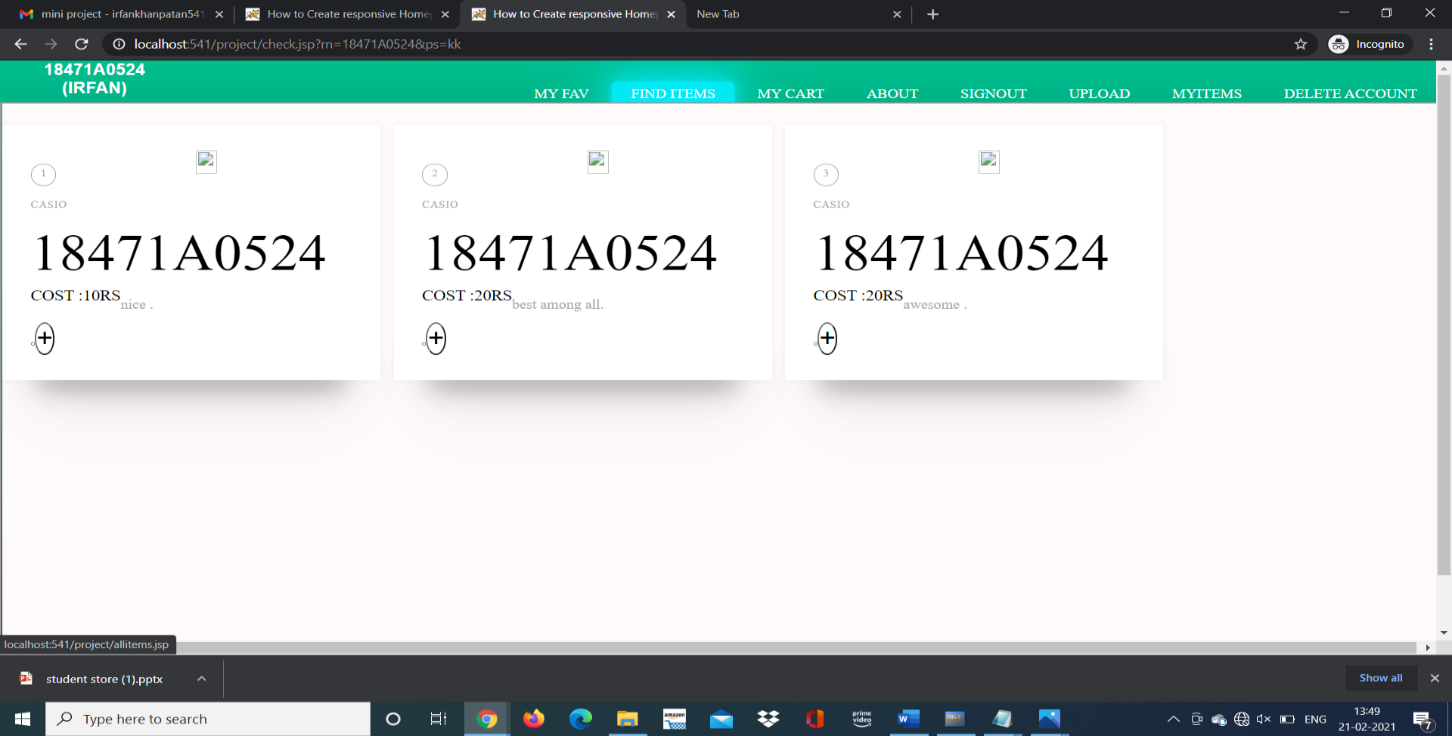


Fig : 6.7 : Allitems Page

**6.8 MYFAV PAGE**

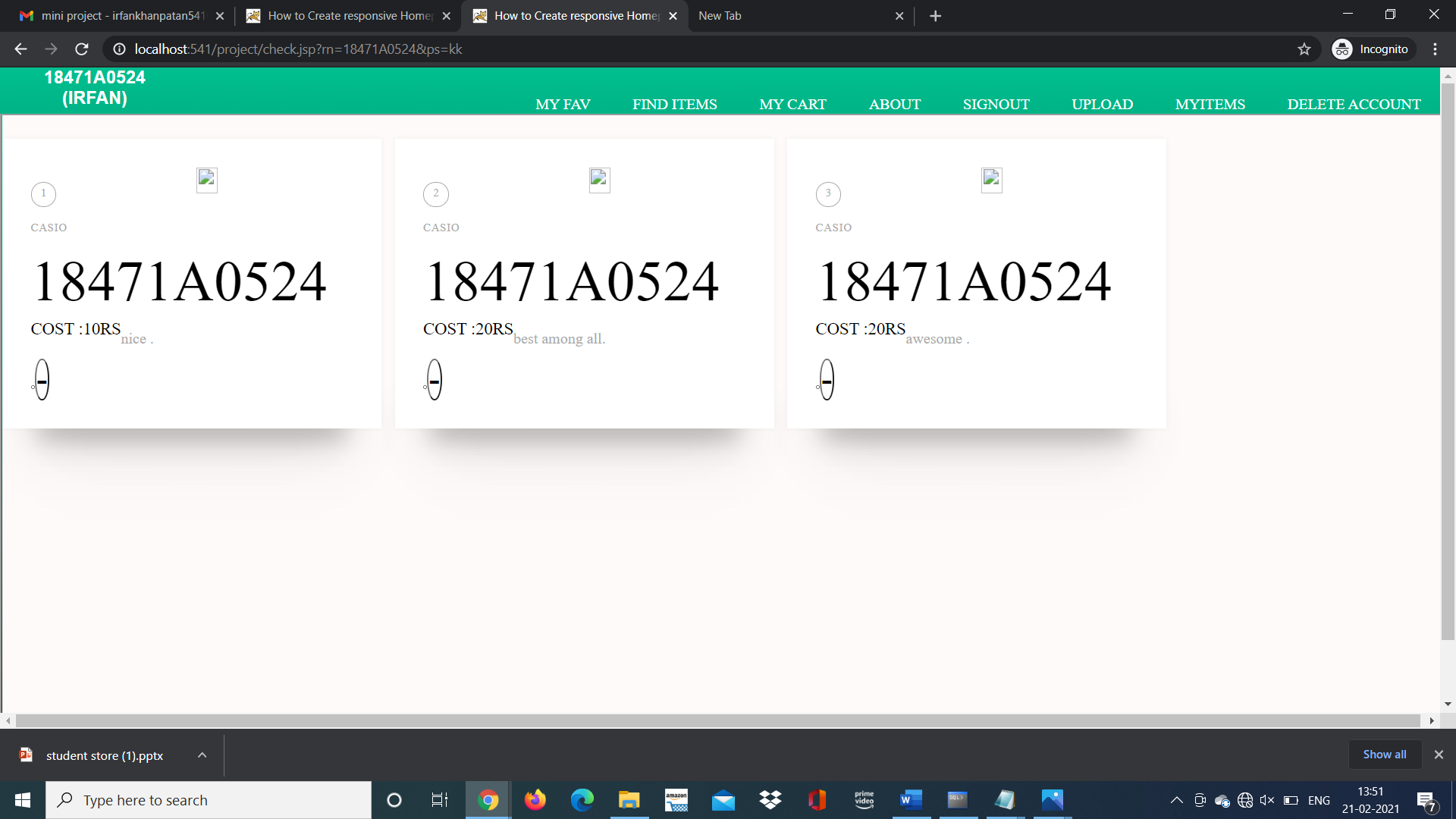


Fig : 6.8 Myfav Page

**7 CONCLUSION**

The project entitled Student Store was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application and an android application for purchasing items from a shop. This project helped us in gaining valuable information and practical knowledge on several topics like designing web pages using html & css, usage of responsive templates, designing of android applications, and management of database using mysql . The entire system is secured. Also the project helped us understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project. This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications. There is a scope for further development in our project to a great extend. A number of features can be added to this system in future like providing moderator more control over products so that each moderator can maintain their own products. Another feature we wished to implement was providing classes for customers so that different offers can be given to each class. System may keep track of history of purchases of each customer and provide suggestions based on their history. These features could have implemented unless the time did not limited us.

1. **FUTURE ENHANCEMENT**

The current level of empirical research done on retail in the Indian context is miniscule. This study is concentrated on perceptions and evaluations of food & grocery stores and seeks to build on the very little research done in retailing in general, and data mining in retailing in particular. In the future, researchers can seek other relevant research problems from the industry and from existing literature. In terms of future scope, a variety of data mining techniques can be used by researchers to simplify customer perceptions and attitudes. Every day, every hour and every minute, tera-bytes of data gets generated from millions of shoppers, yet, retail managers/ business executives always grapple with relevant information that can help retailers/ researchers design strategies to generate customer loyalty. Some of the world’s largest retailers such as Wal-Mart, Tesco’s, Carrefour etc. utilize this data to generate certain knowledge that can help them in modeling and predicting customer behavior and further in order to know their customers better. Thus data mining can not only be applied in retailing but also can be applied in the other sectors such as banking, medicine, education, tourism, insurance and so on. Data mining is the task of finding useful information/ knowledge from huge volume of data. Data mining can be applied through a variety of other techniques such as concept description, cluster analysis, factor analysis, classification and prediction, association analysis, evolution analysis, outlier analysis and many other different tools such as Clementine, Weka, Statistica, SAS, MINITAB, etc. can be used for the application of various data mining techniques. In terms of managerial and technical approach, researchers can research certain niche customer segments such as the elderly, only students, only male professionals etc. Additional sectors, such as apparel retailing, fashion products, consumer electronics, luxury brands, mobile retailing etc. can be researched. Emerging formats such as airport 150 retailing, online-retailing, vending machines, membership clubs, multi-level marketing etc. are also very under-researched areas. Even within grocery retailing, specific formats such as supermarkets, hypermarkets, convenience stores and traditional open markets etc. are very relevant areas of research for future.

1. **BIBLIOGRAPHY**

[1] JavaScript Enlightenment,Cody Lindley-First Edition, based on JavaScript 1.5, ECMA-262, Edition - 2 [2] Complete CSS Guide ,Maxine Sherrin and John Allsopp-O'Reilly Media; September 2012

[3] Online references:

* <http://www.w3schools.com/html/defualt.asp>
* <http://www.w3schools.com/css/default.asp>
* http://www.w3schools.com/js/default.asp