

Pakistan Institute of Engineering and Applied Sciences



INTERNET APPLICATION DEVELOPMENT (IAD)

LAB_13(Test Cases)

SEMESTER PROJECT REPORT (SECURITY FEATURES)

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DEPARTMENT: CIS (22-26)

GROCERY STORE MANAGEMENT SYSTEM

1. WELCOME PAGE:

Welcome to Grocery Store Management System

Please choose an option to proceed:

Register

Login

1) AUTHENTICATION AND AUTHORIZATION IMPLEMENTATION:

Register

Role:

Name:

Email:

Password:

Contact:

Register

DESCRIPTION:

In registration page role based access control is implemented. There are two roles

1. Customer
2. Supplier

Upon registration as customer data is stored in CUSTOMER_T in database. Similarly upon registration as supplier the data is stored in SUPPLIER_T in database. Database of Grocery store is created on some.com.

In registration page Validation is also implemented on:

1. Name
2. Email

In Name field only alphabets and spaces are allowed.

In Email field standard mail format is implemented.

2) VALIDATION IMPLEMENTATION

Register

Role:

Name: * Only letters and spaces allowed

Email: * Invalid email format

Password:

Contact:

Login

Email:

Password:

Login

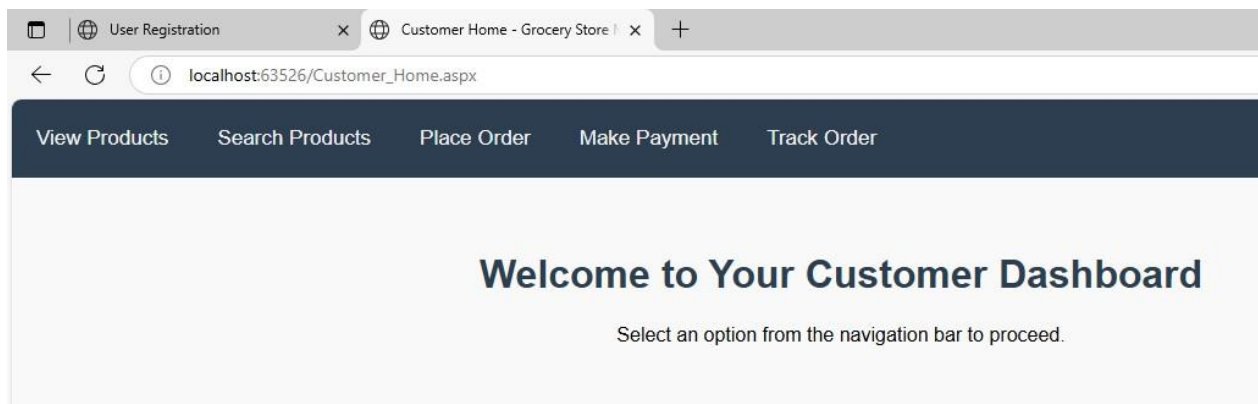
DESCRIPTION:

The user will enter their email and password, which are stored in the database. If the entered credentials match a record in the SUPPLIER_T table, the user will be redirected to the Supplier Dashboard.

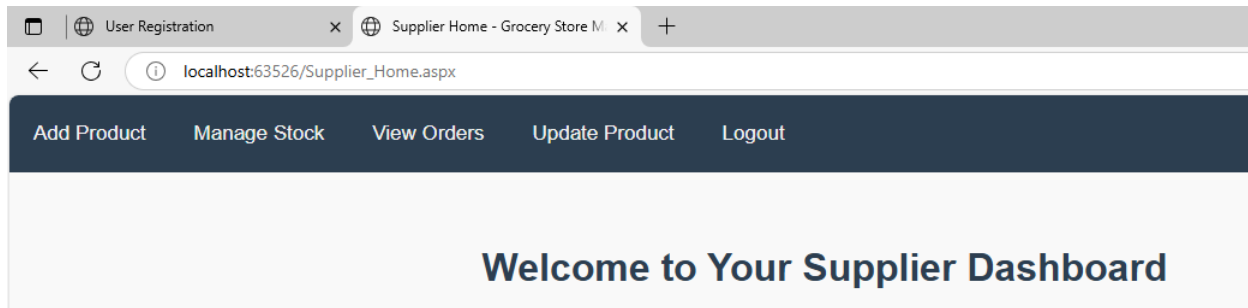
If the credentials match a record in the CUSTOMER_T table, the Customer Dashboard will be displayed.

Otherwise, an error message saying "Invalid email or password" will be shown.

CUSTOMER DASHBOARD:



3) SUPPLIER DASHBOARD:



4) PASSWORD HASHING IMPLEMENTATION:

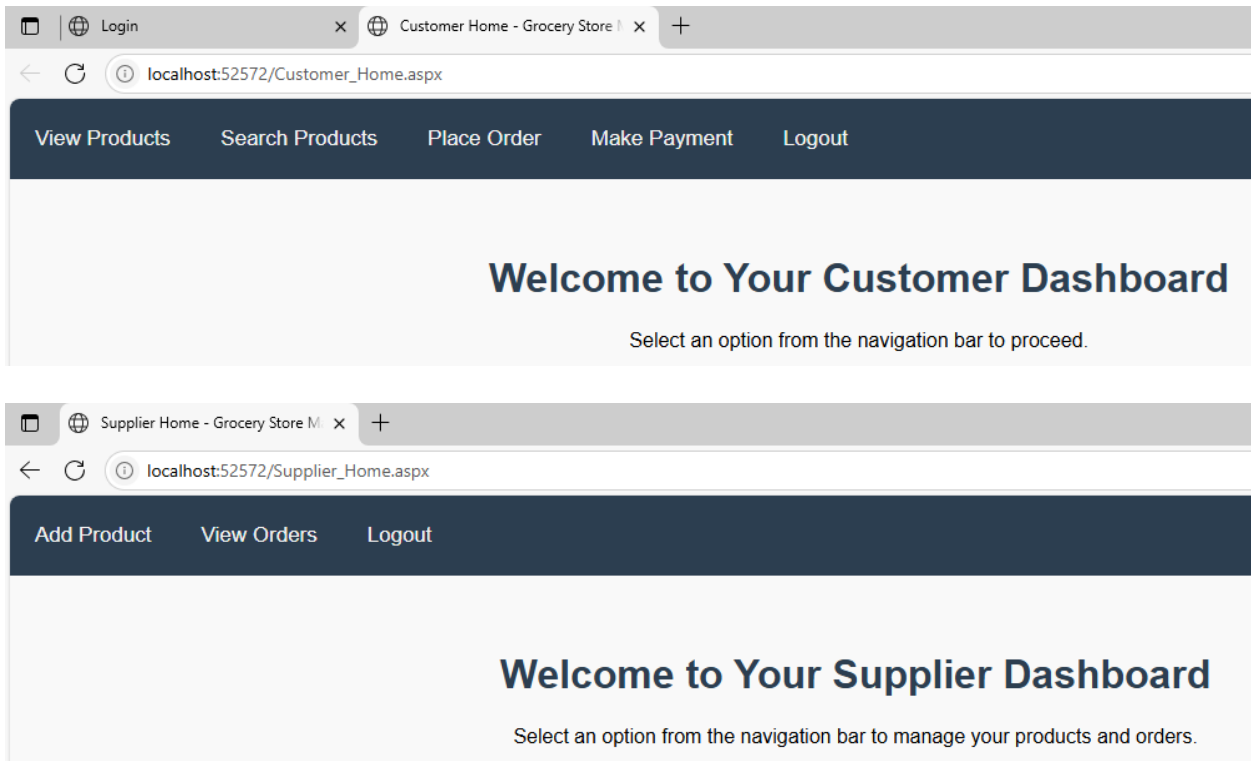
Customer_ID	Name	Email	Password	Contact
732	hira	hira2@gmail.com	c3dc27b67b1731f396249d1de5a514c101a1a27737b2d59b4397a63527ecb221	2345612390
734	sara	sara24@gmail.com	39e4ac4fc2eec94746b494efc866c262a5b03707a219fd27e8d078b472cc8ed8	1567890234

Hashed passwords are stored in database. During login, the entered password is hashed and compared to the stored hash. Authentication is performed only if the hashes matched.

5) SESSION STATE IMPLEMENTATION:

```
Session("UserEmail") = email
Session("UserRole") = "Customer"
Response.Redirect("Customer_Home.aspx")
Return
```

```
Session("UserEmail") = email
Session("UserRole") = "Supplier"
Response.Redirect("Supplier_Home.aspx")
Return
```



6) SESSION STATE TIMEOUT IMPLEMENTATION:

```
<configuration>
  <!--
    For a description of web.config changes see http://go.microsoft.com/fwlink/?LinkId=301871.

    The following attributes can be set on the <httpRuntime> tag.
  <system.Web>
    <sessionState timeout="20"/>
    <httpRuntime targetFramework="4.8" />
  </system.Web>
  -->
  <system.web>
    <compilation debug="false" targetFramework="4.8"/>
    <pages controlRenderingCompatibilityVersion="4.0"/>
  </system.web>
</configuration>
```

timeout="20" means that session will expire after 20 minutes of inactivity. It prevents unauthorized access if a user forgets to logout.