ITIS-5166

NETWORK BASED APPLICATION DEVELOPMENT

Phone Case Shop

Requirement and design document

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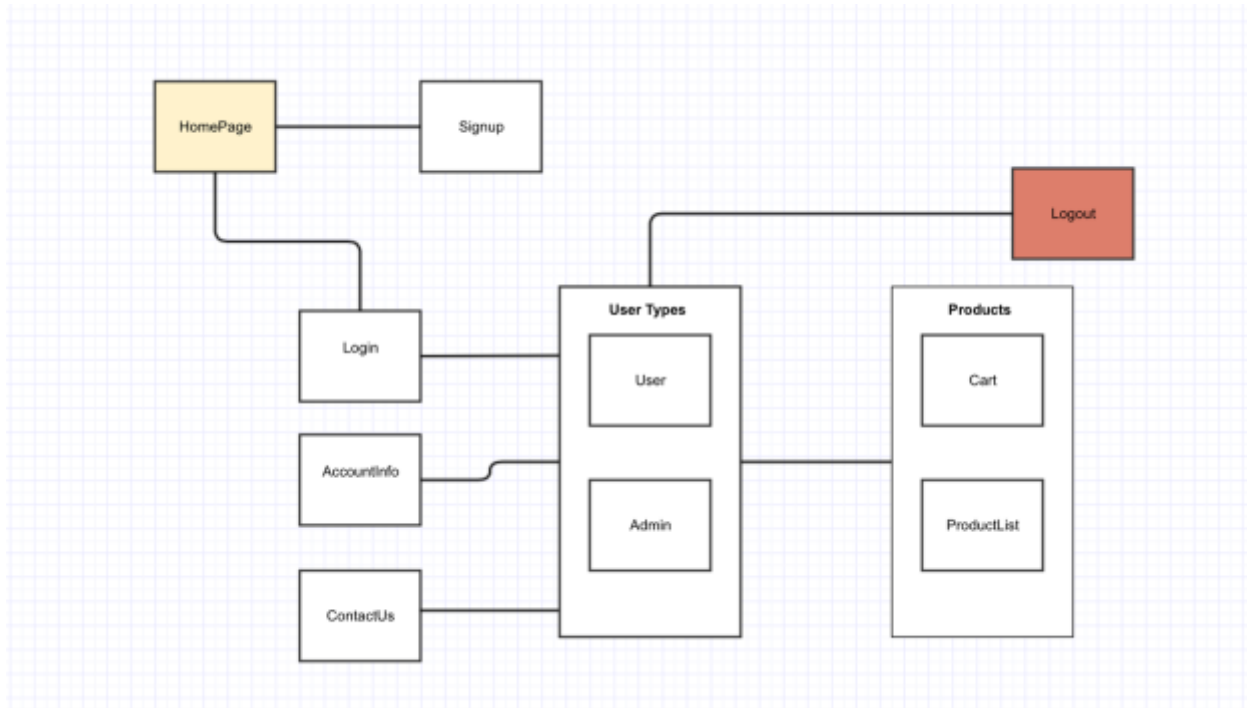# Table of Contents
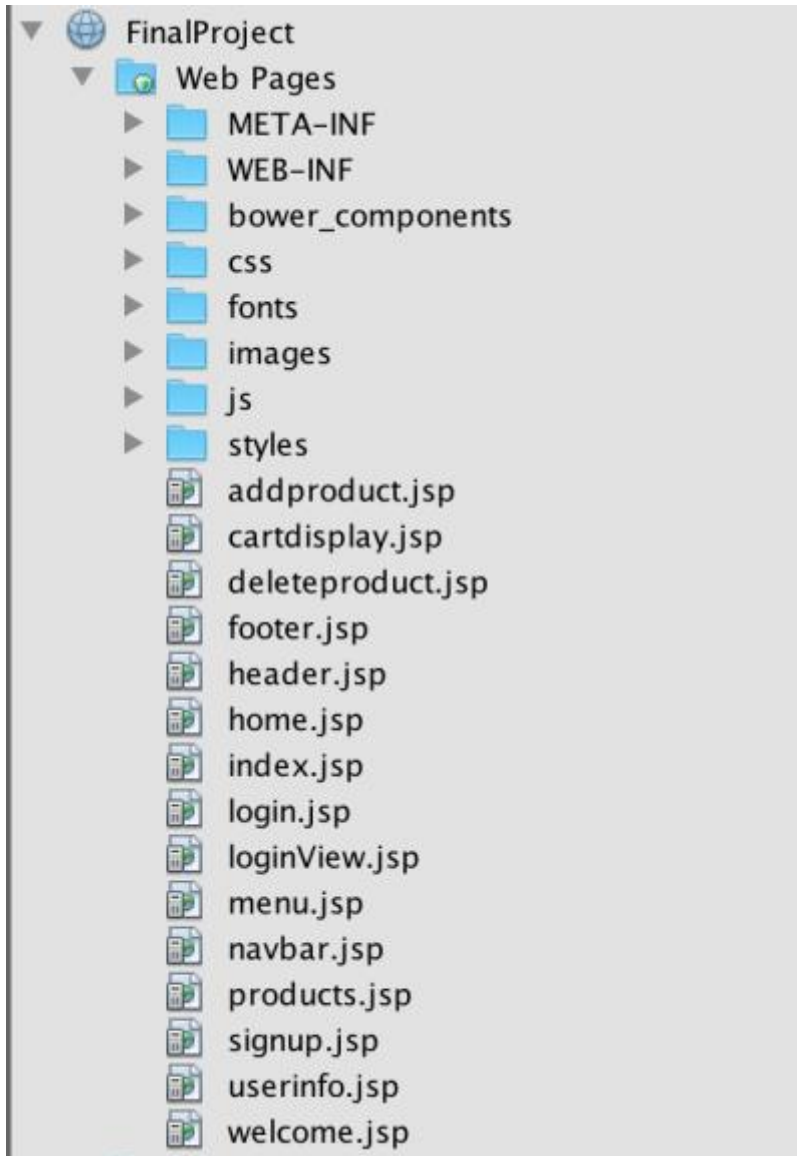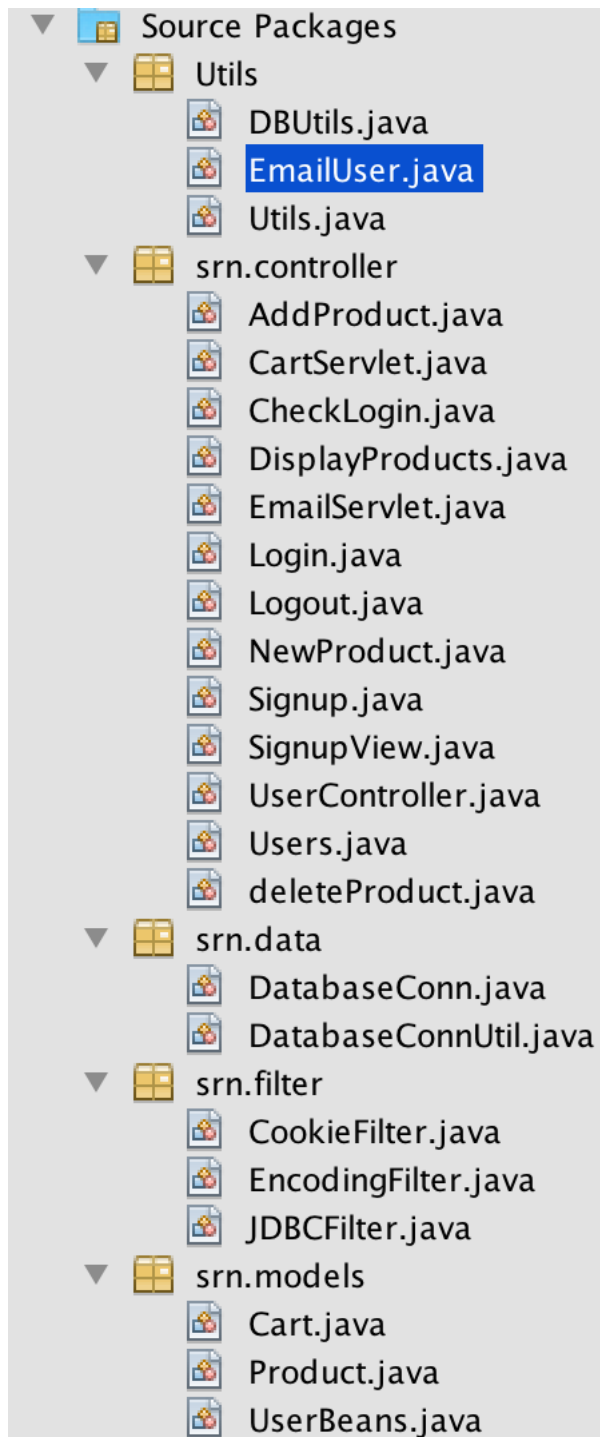
1. Introduction

The website is an online E-commerce store where people can buy mobile phone cases. The number of people buying mobile phones has increased a lot and there is an ever increasing demand for mobile phone cases as well. With the demand so high, an e-commerce store that sells these products can be a great source to buy phone cases.

2. Site Map

3. File Structure

- ▼ 🌐 FinalProject
  - ▼ 📁 Web Pages
    - ▶ 📁 META-INF
    - ▶ 📁 WEB-INF
    - ▶ 📁 bower_components
    - ▶ 📁 css
    - ▶ 📁 fonts
    - ▶ 📁 images
    - ▶ 📁 js
    - ▶ 📁 styles
    - 📄 addproduct.jsp
    - 📄 cartdisplay.jsp
    - 📄 deleteproduct.jsp
    - 📄 footer.jsp
    - 📄 header.jsp
    - 📄 home.jsp
    - 📄 index.jsp
    - 📄 login.jsp
    - 📄 loginView.jsp
    - 📄 menu.jsp
    - 📄 navbar.jsp
    - 📄 products.jsp
    - 📄 signup.jsp
    - 📄 userinfo.jsp
    - 📄 welcome.jsp

- ▼ Source Packages
  - ▼ Utils
    - DBUtils.java
    - EmailUser.java
    - Utils.java
  - ▼ srn.controller
    - AddProduct.java
    - CartServlet.java
    - CheckLogin.java
    - DisplayProducts.java
    - EmailServlet.java
    - Login.java
    - Logout.java
    - NewProduct.java
    - Signup.java
    - SignupView.java
    - UserController.java
    - Users.java
    - deleteProduct.java
  - ▼ srn.data
    - DatabaseConn.java
    - DatabaseConnUtil.java
  - ▼ srn.filter
    - CookieFilter.java
    - EncodingFilter.java
    - JDBCFilter.java
  - ▼ srn.models
    - Cart.java
    - Product.java
    - UserBeans.java

4. Database Creation Code

```sql
create database Cases;
use Cases;
create table USER_ACCOUNT
(
USER_NAME VARCHAR(30) not null,
GENDER    VARCHAR(1) not null,
PASSWORD  VARCHAR(30) not null,
EMAIL VARCHAR(50) not null,
ADDRESS VARCHAR(255) not null,
primary key (EMAIL)
);


drop table USER_ACCOUNT;
-- Create table
create table PRODUCT
(
CODE  VARCHAR(20) not null,
NAME  VARCHAR(128) not null,
PRICE FLOAT not null,
primary key (CODE)
) ;

 create table Cart
(
CODE  VARCHAR(20) not null,
EMAIL  VARCHAR(128) not null
) ;
drop table cart;
-- Insert data: --------------------------------------------------------

insert into user_account (USER_NAME, GENDER, PASSWORD)
values ('tom', 'M', 'tom001');
-- Insert data: --------------------------------------------------------

insert into user_account (USER_NAME, GENDER, PASSWORD)
values ('tom', 'M', 'tom001');

insert into cart (CODE, EMAIL)
values ('17101', 'beyrohit@gmail.com');
alter table cart drop column itemno;

insert into user_account (USER_NAME, GENDER, PASSWORD, EMAIL, ADDRESS)
values ('xyz', 'M', 'pass', 'xyz@gmail.com','9401 Kittansett dr APT E');

insert into product (CODE, NAME, PRICE)
values ('P001', 'Java Core', 100);

insert into product (CODE, NAME, PRICE)
values ('P002', 'C# Core', 90);

select * from user_account;
select * from product;
select * from cart;
CREATE DATABASE `Cases` /*!40100 DEFAULT CHARACTER SET latin1 */;
delete from cart WHERE EMAIL = 'beyrohit@gmail.com';
Select p.CODE, p.Price,p.NAME,p.PRICE from cart c INNER JOIN USER_ACCOUNT ua ON ua.Email=c.Email INNER JOIN Product
 p ON c.Code=p.Code WHERE c.EMAIL="beyrohit@gmail.com" ;
```
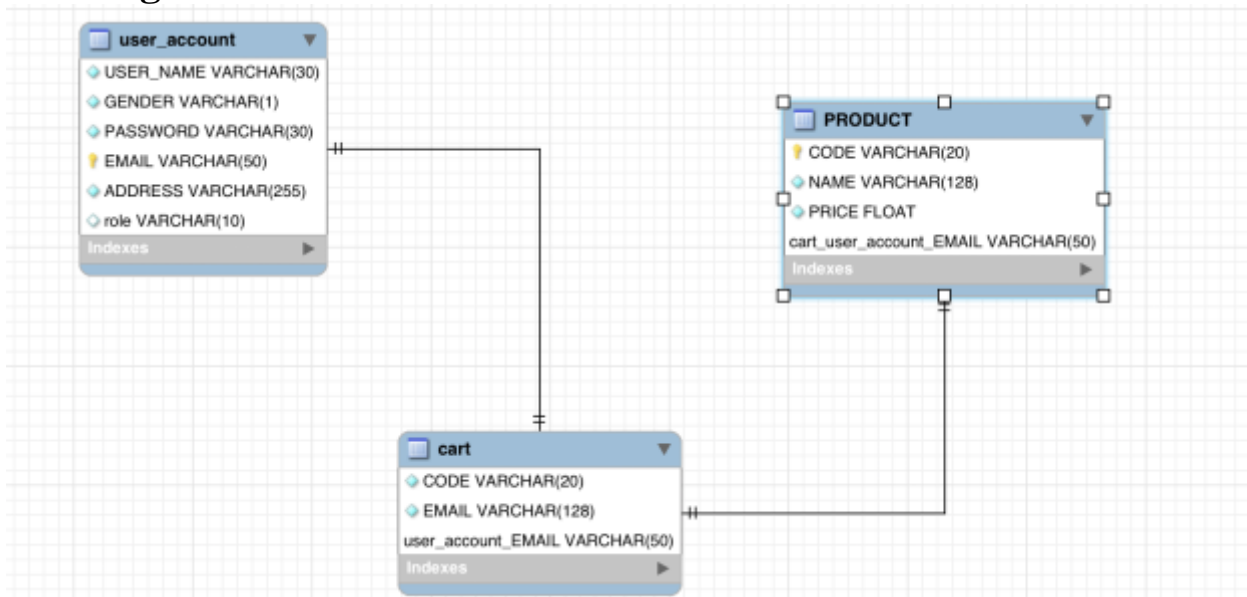
5. ER Diagram

Entities:

1. User
2. Cart
3. Product

Attributes:

User:
1. User_name
2. Gender
3. Password
4. Email(Primary Key)
5. Address
6. Role

Product:
1. Code (Primary Key)
2. Name
3. Price

Cart:
1. Code
2. Email

6. Page Design

Home Page:
Name: home.jsp
Purpose: Welcomes the Users, provides a nice interface and provides links to all the other pages.
Audience: User, Admin

Login Page
- **Name:** login,jsp
- **Purpose:** Provides login form
- **Audience:** User, Admin

Signup
- **Name:** signup,jsp
- **Purpose:** Provides form to create new user account
- **Audience:** User, Admin

ProductList
- **Name:** products.jsp
- **Purpose:** To show products available for purchase.
- **Audience:** User, Admin

Add New Product
- **Name:** addproduct.jsp
- **Purpose:** To add a new product
- **Audience:** Admin

Delete Product
- **Name:** products.jsp
- **Purpose:** To delete product with that productcode
- **Audience:** Admin

Cart Page
- **Name:** displaycart.jsp
- **Purpose:** Displays cart of current user
- **Audience:** User,Admin

Contact Us
- **Name: contactus.jsp**
- **Purpose:** Send email to admin with a problem.
- **Audience:** User

7. Future Enhancements

1. The website can be improved by categorizing products based on phone type.
2. Interface can be improved for providing better user experience.

8. References:

1. www.kiraakstore.com
2. www.facebook.com/kiraakstore
3. https:w3schools.com
4. www.gliffy.com
5. www.javatpoint.com