Database Project
Inorbit Mall

Tarun Gupta   201403002
Munnangi Bala Sai Krishna Reddy   201403009

1.   Client Side Pages:

   ● index.php

           This page is the welcome page for all customers. It has a link to all products
   section, help section and contact us section. It has links for a new customer to register
   and get logged in their respective accounts. If a customer forgets his/her password, he
   can reset his/her password through reset password page. It welcomes customer by
   providing them some information about the enterprise. It also lists some newly added
   products to the inventory.

   ● user_login.php

           This page is shown when user clicks on login and if he is not already logged in.
   It asks user for his login id and his password and then if provided information is
   correct, user gets logged in.

   ● list_all_products.php

           This page is shown when user clicks on products page. It displays all the
   products which are there in the inventory (database) with their image, name, price and
   a view option. It also allows user to sort the products with prices (both ascending and
   descending) and also by date_added. It also allows users to filter them with different
   available categories. Both sort and filter can simultaneously used to achieve various
   products view.

   ● logout.php

           This page logs out a user and is only visible when he is logged in.

   ● contact.php

           This page is displayed only when a customer clicks on contact section. It
   displays information about whom to contact for help or when a customer forgets his
   details and not able to reset their password themselves, they can contact on numbers
   given there for help.

- help.php

     This page guides users through step by step about all the features available on the website and how to buy a product, etc.

- product.php

     This page displays when a user selects a particular product for detailed view. It allows users to see the full size HD image of the product alongwith name, price and an option for adding it to their own personal cart which only gets displayed when user is logged in.

- user_profile.php

     This page is displayed when user wishes to edit his/her profile through Edit profile link. It allows user to change their Email Id's and their addresses.

- user_registration.php

     This page is displayed when a user wishes to register themselves on the website and have a separate account. It asks for various information: name, login name, passwords, security questions and answers for resetting password and finally their mobile numbers and addresses.

- cart.php

     This page is displayed when a user is logged in and when he wishes to see his/her cart. When a customer selects add to shopping cart all product information is saved in their respective account carts with their quantities. Cart gets updated every time a product is added to the cart. All users accounts have their respective different carts. It gives options for emptying the whole cart and also displays the sum total of the products with their quantities.

- forgetpass.php

     This page is displayed when user tries to reset his/her password. It verifies information given by user and allows them to change the password.

- admin_login.php

  This page is shown when a manager clicks on login and if he is not already logged in. It asks user for his login id and his password and then if provided information is correct, user gets logged in.

- admin- index.php

  This page displays when a store manager is logged in. It allows him to edit all the products as well as delete them. It also allows them to manage users i.e. delete/edit them.

- inventory_list.php

  This page allows a logged in manager to see the list of all the products along with an option to edit/delete them.

- inventory_edit.php

  This page is displayed when a logged in manager tries to edit a product. It displays all information about that product and the manager can edit the information.

- user_list.php

  This page allows a logged in manager to see the list of all the users along with an option to edit/delete them.

- user_edit.php

  This page is displayed when a logged in manager tries to edit a user. It displays all information about that customer except their passwords and the manager can edit the information (on demand).

2. Functionalities:

   2.1 Sorting by (price or date) and Filtering by category:
   Page: list_all_products.php
   Demand: Sort by price:(High to Low / Low to High / Date) and Filter by: None
   Response: List of products with prices sorted as per demand and filtered according to category (if not selected then all products are displayed with sort).

2.2 Reset Your Password:

    Page:user- index.php

    Demand: User forgets his/her password and wishes to reset it.

    Response: If user enter every information correctly then his new password is successfully updated in the database.

2.3 User Log in:

    Page: user- index.php & user_login.php

    Demand: User wish to log in.

    Response: If user enters correct id and password as the one while registering, he gets logged in.

2.4 Edit profile:

    Page: user- index.php when logged in.

    Demand: User wishes to change his/her information.

    Response: If user follows all the constraints of the data, all information gets updates successfully.

2.5 Add to Cart:

    Page: cart.php & product.php

    Demand: Adding product to their cart for future or current purchase by 'Add to Cart' option on product.php.

    Response: Product gets added to the account cart forever till user deletes it. Also name of product, quantity (default=1) are also there.

2.6 View Product:

    Page: product.php

    Demand: When user sees the list of all products and selects a particular product for detailed view.

    Response: User gets a detailed view of the product with enlarged image, and an option for adding to cart.

2.7 Change Quantity in cart:

    Page: cart.php

    Demand: Since default quantity, when added to a cart is 1, user can set it according to their choice and click change.

    Response: If quantity is not a floating value, it get updated successfully.

2.8 Remove from cart:

    Page: cart.php

    Demand: Remove a particular product from cart.

    Response: Product is removed from their account cart.

2.9 Empty cart:
        Page: cart.php
        Demand: Remove all product from the cart.
        Response: All products are removed from the cart.

2.10 Manage Inventory:
        Page: inventory_list.php
        Demand: Add/Edit/Delete a product from inventory.
        Response: Operation is performed as per demand.

2.11 Manage Users:
        Page: user_list.php
        Demand: Add/Edit/Delete a user from database.
        Response: Operation is performed as per demand.

3.   Data definition and Constraints:

3.1 Admin

```
CREATE TABLE IF NOT EXISTS `admin` (
 `id` int(11) NOT NULL,
 `username` varchar(24) NOT NULL,
 `password` varchar(24) NOT NULL,
 `last_log_date` date NOT NULL
 PRIMARY KEY (id)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1 AUTO_INCREMENT=2 ;
```

3.2 Customer

```
CREATE TABLE IF NOT EXISTS `customer` (
 `login` varchar(12) NOT NULL,
 `password` varchar(8) NOT NULL,
 `name` varchar(40) NOT NULL,
 `id` int(11) NOT NULL,
 `mobile` varchar(10) NOT NULL,
 `security` text NOT NULL,
 `securityanswer` text NOT NULL,
 `email` varchar(50) NOT NULL,
 `address` varchar(100) NOT NULL,
 `city` varchar(20) NOT NULL,
 `state` varchar(20) NOT NULL,
 `pin` varchar(6) NOT NULL
 PRIMARY KEY (id)
```

) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=13 ;

`login`- is username user have set.
`password`- password user has set
`name` - name of the user
`id` (primary) - invisible to user, given to each user.
`mobile` - mobile number provided
`security` - question set by user, later used to change password
`securityanswer` - answer set by user
`email` - email of user
`address` - address of user
`city` - city to which user belongs
`state` - state in which user resides
`pin` zip code

3.3 Customer_cart

CREATE TABLE IF NOT EXISTS `customer_cart` (
`cartid` int(11) NOT NULL,
  `productid` int(11) NOT NULL,
  `customerid` int(11) NOT NULL,
  `product_name` varchar(255) NOT NULL,
  `details` text NOT NULL,
  `price` float NOT NULL,
  `quantity` int(11) NOT NULL,
  `date_added` date NOT NULL
  PRIMARY_KEY (cartid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1 AUTO_INCREMENT=11 ;

`cartid` - primary key assigned to user shopping
  `productid` - id given to each item
  `customerid` - id of person shopping
  `product_name` - name of item
  `details` - details of the item
  `price` - price of the item
  `quantity`- no of items user orders
  `date_added` - date on which item is placed in mall

3.4 Feedback Form

```
CREATE TABLE IF NOT EXISTS `feedback` (
 `customerid` int(11) NOT NULL,
`experienceform` varchar(500) NOT NULL,
 `feedbackform` varchar(500) NOT NULL
 FOREIGN KEY (customerid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

`customerid` - foreign key, id of person shopping
`experienceform` - form provided to users
`feedbackform` - form provided to users

3.5 Mall

```
CREATE TABLE IF NOT EXISTS `mall` (
`mallid` int(11) NOT NULL,
`mallname` varchar(40) NOT NULL,
 `ownername` varchar(40) NOT NULL,
`address` varchar(40) NOT NULL
PRIMARY KEY (mallid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

`mallid`- primarykey, mall/dealers through which 'inorbit mall' services are offered
`mallname`- name of the dealers shop
 `ownername` - name of the dealer
`address` - address of the mall

3.6 Offers

```
CREATE TABLE IF NOT EXISTS `offers` (
 `itemid` int(11) NOT NULL,
 `description` varchar(400) NOT NULL
FOREIGN KEY (itemid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

`itemid`- foreign key obtained from item table
`description` - description about offer

3.7 Parking

```
CREATE TABLE IF NOT EXISTS `parking` (
  `personid` int(11) NOT NULL DEFAULT '0',
  `parkingid` int(11) NOT NULL,
  `timing` time NOT NULL,
  `fee` int(2) NOT NULL,
  `slot` varchar(3) NOT NULL
PRIMARY KEY (parkingid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

`personid`- id of the person who has parked his vehicle
`parkingid` - id given to vehicle parked
`timing` - start time and end time vehicle park
`fee` - fee for parking
`slot` - slot in which vehicle is parked

3.8 Products

```
CREATE TABLE IF NOT EXISTS `products` (
`id` int(11) NOT NULL,
  `product_name` varchar(255) NOT NULL,
  `price` float NOT NULL,
  `details` text NOT NULL,
  `category` varchar(16) NOT NULL,
  `subcategory` varchar(16) DEFAULT NULL,
  `date_added` date NOT NULL
PRIMARY KEY (id)
) ENGINE=InnoDB  DEFAULT CHARSET=latin1 AUTO_INCREMENT=52 ;
```

`id` ,- primary, id issued to each item
 `product_name` - name of the item
 `price` - price of the item(excluding discount)
 `details`- details of the product
 `category` - category to which product belongs to
 `subcategory` - subcategory to which product belongs to
 `date_added` - date on which product has been added to mall.

3.9 Staff

```sql
CREATE TABLE IF NOT EXISTS `staff` (
 `personid` int(11) NOT NULL,
 `name` varchar(40) NOT NULL,
 `salary` int(11) NOT NULL,
 `shift` varchar(40) NOT NULL
FOREIGN  KEY (personid)
) ENGINE=InnoDB DEFAULT CHARSET=latin1;
```

 `personid` - id of person
 `name` - name of the staff
 `salary` - salary for which person is working
 `shift`- time shift in which person works.