Faculty of Management Studies

Department of Computer Science

1.1.1   SQA HND
Academic Year: 2020

Assessor   : Mr. Shehantha Siriwardane

Unit code   : HR9M 48

Title of the Unit : Graded unit 2

Outcome   : Outcome 1 2 3   **Batch:** CS09

Assignment Issued Date   : 27- November--2020

Assignment Submission Date   : 03-January -2021

1.1.2   Declaration of Academic Honesty

1.1.2.1.1 **Student's Full Name**   : **Sularaka madurapriya**

Student ID number   : **19s07033**

Declaration

1. I confirm that this assignment is my own work:
2. I confirm that where ever I have used someone else's words, concepts, graphics or data in my work, I have clearly indicated exactly where I have done so, using the Harvard referencing system.
3. I confirm that I have clearly indicated, by referencing, where I have used someone else's words, concepts, graphics or data, irrespective of whether I have quoted verbatim or I have paraphrased in my own words.
4. I have clearly indicated in my assignment any work that has been contributed by another student.
5. I have clearly indicated in my assignment any work that has been carried out collaboratively with another student/s.

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Planning: action play

1.2 Analyze of the project assignment brief

Cloths are one of the most wanted thing for human life. From the ancient people are using cloths for different type of uses. But in the present, cloths are mainly use for fashion needs therefor now it is an industry. Now a day the clothing industry is going very evenly everyone are going to clothing shop and buy the product. They cannot take a chance to choose a cloth and they own wish they should buy only readymade cloths. Sometimes customers have no time for shopping. And in these day world is in very pandemic situation because of covid 19 outbreak there for most people don't like to go shopping malls.

In my concept customer should not come to the store, they can order our product online and if someone want to customize their own design they can put a special order as their wish in this concept we intend to give a priority for the T-shirt.

My site name is "Sulazz" we are maintaining a physically store and online store in this system customer can put a reservation for the item online and after that customer can come to our store and try the item. If someone can't to reach our store they can order online. We have island wide deliver service. Then we will deliver it as soon as possible to customer's door step.

In this concept we are created the suggestion box in our website customer can give their new ideas from using this website and we are maintain a rating system for our product quality.

In terms of shop premises, we have two salesmen which will provide support to any customer when selecting items from shelves. In the shop all the clothing items will have its price tags alone with the sizes accordingly. When customers selecting clothing items, sometimes they might need different sizes which in return have to get consult the salesmen for help. This is so vital in terms of the customer satisfaction. When the peak time our store is crowded of customers then sometimes salesman can't handle them. Some customers are not happy about it, they are got angry sometimes and someone are also complain about it.

Once the customer finishes selecting clothing items, he/she can approach the cashier counter which will make sure to complete the checkout process. Once the checkout is completed cashier will put all the items in a bag and clear all the security tags for clearance.

2. Existing issues

However there are some problems in our outlets. Sometime our store is crowded from customers. Mostly in New Year and Christmas seasons we have to face that problem when the number of customers increase in the shop, salesmen cannot handle all queries. In shopping seasons sometimes the customer queue is outstanding even the shop. Customers are unhappy about it they will complain. These day world is in very pandemic situation because of covid 19 outbreak so customers are don't like to stay in crowded shops. That is very unfavorable affect for our business. When the crowded time customers are come to

We have not more space to maintain two or three counters there for, the customer queue is very long in sometimes when the customer queue is long. Customers will start to panic and complain, and cashier person will miss some bills with this crowd as I mention we are situated in very small space so then we can't maintain also a car park. Therefore customers are not in interesting to come for our shop it is a reason for a Potential business loss

Proposed System

There are some issue I was mention about previous system. That issues are not favorable for our business therefor I introducing new system for our business. It is an online platform for shopping.

Our store is mainly face to problem of space. Sometime our store is crowded from customers. We have to face that problem when the number of customers increase in the shop, salesmen cannot handle all queries. In this system we can manage it properly because of that customer should not come our shop they can order there product online and we can delivery it as soon as possible to their doorstep. Now a days the world is in very pandemic situation with covid 19 virus because of that most people don't like to go shopping and don't like to reach crowded places. This online platform is very helpful that kind of customers.

Cloths doesn't bring by customers when they fit on it. So then customer are come to shop and bring it after fit on. Happy to say we have a solution also this problem. We are created mockup dummies. They can see how it looks when he/she wear it. This concept will gives a big solution for the customers.

As I mention in previous paragraph our store is situated in small space therefor we are maintain only one cashier counter. In this system we don't need any cashier counter for our store. Customer can order their product online and they can check out in using their debit or credit card as an online payment method. It is very helpful for maintain the space and maintain the number of employees.

We are mainly think about to introduce new trends for the customers and catch them. We intend to drive thru shopping. In this concept customer can order their item online and they can collect it when they our drive thru stall. Using this concept customer should not come in to the shop they can shopping while they stay in their vehicle. This will may freshest shopping experience to the customers.

Proposed System

1.1.2 Aims of the project

- Requirements gathering & analyzing
- Availability on open hours (8,00a.m - 8,00a.m)
- Project completion before deadline

1.1.3 Requirements

Functional Requirements

- Customers are mainly focus on size of the cloths
- All products should be categorized according to relevant product types.
- Some are want to design cloths they own wish.

- **Product View** – product view must display cloth name, description, availability, specifications, customer reviews & rating, warranty period (if any), return policy.

- Sign up - users should able to register to the website. When registering to the site user must input following data to the system.

  1. First Name and Last Name
  2. Username (must be unique for each user)
  3. Email address
  4. Address (location)
  5. Mobile Number
  6. Password
  7. Age and Gender (optional)

  Log In – successfully registered user should able to login using their username and Password.

- **Update/ Edit Profile** – Logged users must able to edit their password, contact details (Address and Mobile Number) and personal details except username.

- **Forgot Password** – Registered users should able to reset their password.

  User Cart – logged users should able to add products to his cart, view/ edit and delete items in it.

- **Checkout** – logged users must able to checkout their cloths. following details must be prompted during the checkout,

  - Product Name, description, price and quantity

  - Warranty information (if any)

  - Delivery charges

  - Total price

  - Confirmation of delivery address and payment method

- **Product Reviews & Ratings** – logged in users must able to review the product using five star based system and a review the product.

- **Admin** – Admin must able to manage products/ inventory, manage users, chat with users, receive orders.

- **Contact form** – every users (guest or registered) should able to submit a contact form regarding their issues and questions about the site.

Non-Functional Requirements

Usability

Website must be easy to use, it should be easily access by anyone with basic knowledge of internet and English language using computer/ mobile device. Its user interface must be simple to user.

Reliability

Website will be hosted in Amazon AWS cloud which is a trusted and reputed hosting service provider and AWS gives the web admin most of the site control it will ensure the site reliability. Most of function in the site only accessible to registered users.

Availability

Website will available on working hours only (8.00 a.m. - 8.00 p.m.)

Security

Website is must be developed using framework which gives built in function to secure from SQL injection attack, Cross-site scripting (XSS) attacks. When registering a user it must validate input data

before inserting to the database. User password must save using hashing algorithms to protect them and user data and information only access to the particular user and the admin.

User Interface

User Interface should be easy to navigate any user, and its appearance should be eye catching. It should be mobile responsive and support multiplatform (mobile/ tablet pc/ computers etc.).

Performance

Website performance should be in higher standard and Quality to ensure customer satisfaction and minimum errors.

1.1.4 Key Factors

- CRUD implementation (create,read,update,delete)
- Responsiveness
- Ability to work in distributed platforms

1.1.5 Resources and Materials
Human Resources –

Software Resources
Development

- **Operating System** – Ubuntu 20.04.1 LTS (Focal Fossa) x64

- **Web Technologies** – HTML5/ CSS3/ JavaScript

- **Programming Languages** – PHP 7.2

- **Frameworks** – Bootstrap 4 / Code igniter 3

- **Database** – Maria DB

- **Others** – Ajax/ JQuery Library

- **Text editor** – Microsoft Visual Code

Testing

- **Operating System** – Ubuntu 20.04.1 LTS (Focal Fossa) x64/ Windows 10 Home
- **Web browsers** – Google chrome / Firefox
- **Tools** – Google Chrome DevTools/ Firefox Developer tools

Implementation Resources

ERDIAGRAM

Role

PK	RoleID
	RoleName
	CreatedUser
	ModifiedUser
	CreatedDate
	ModifiedDates

Customer

PK	CustomerID
	CustomerFirstname
	CustomerLastName
FK1	AdressID
	ContactNo
FK2	StatusID

Status

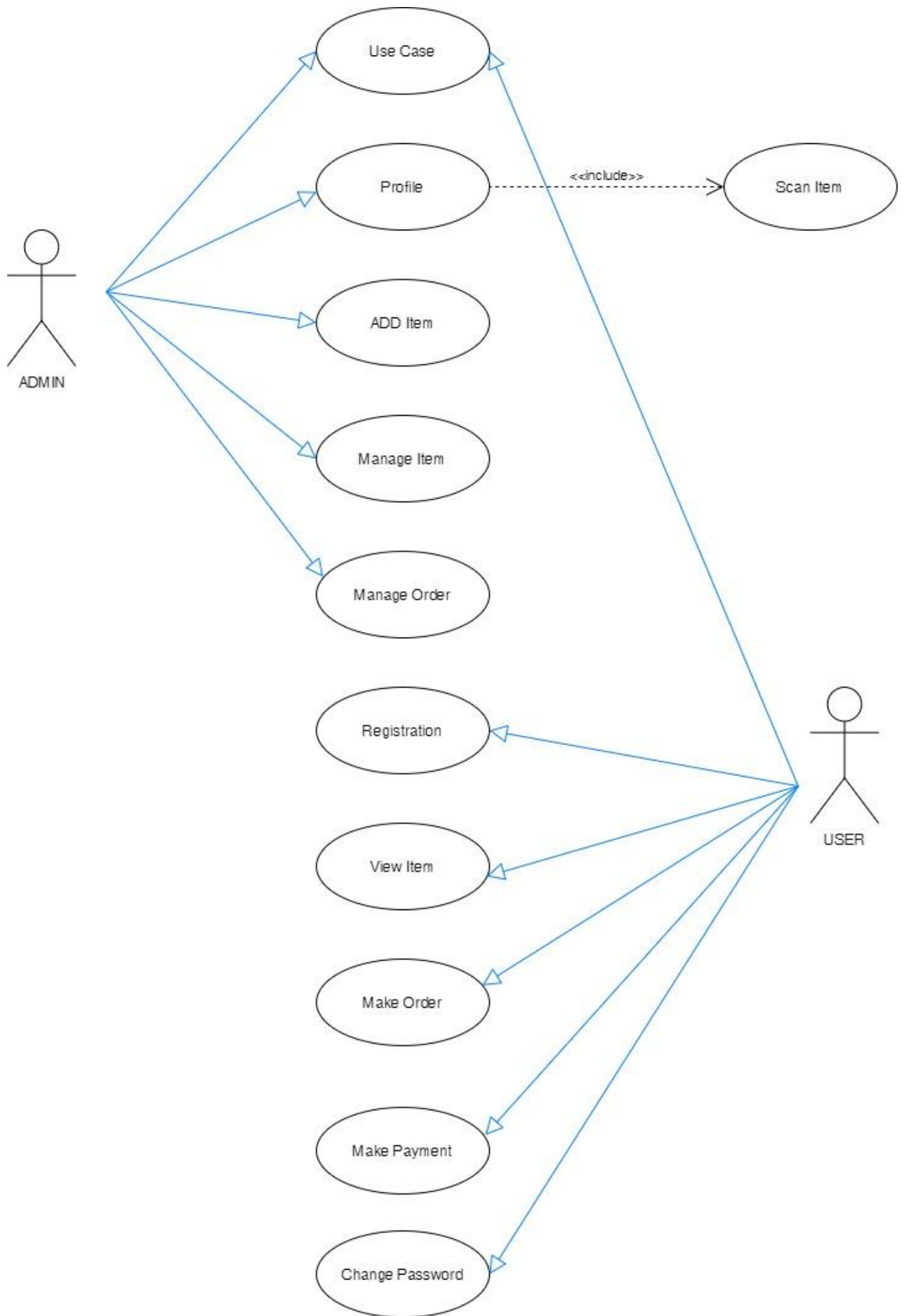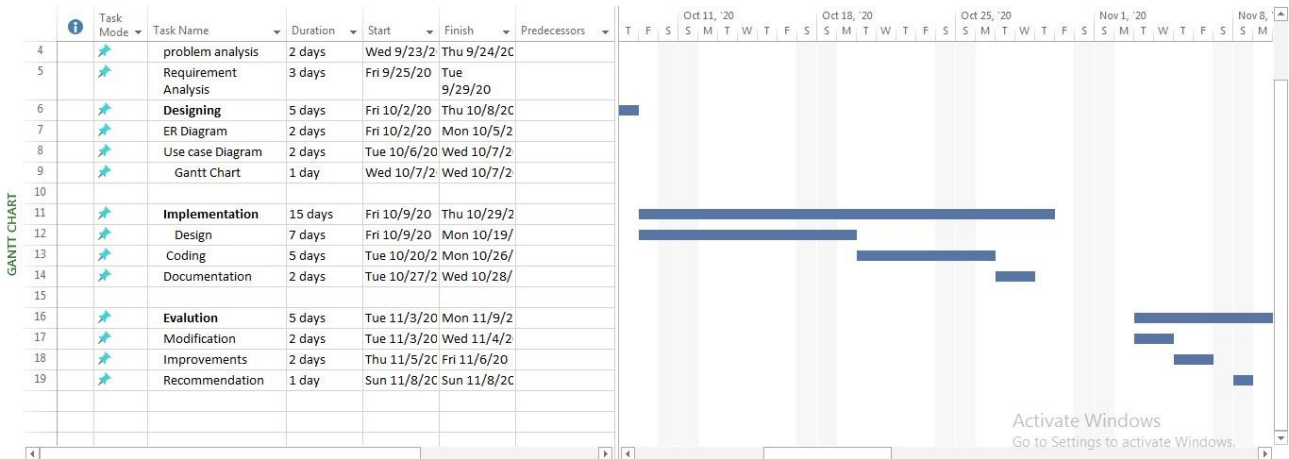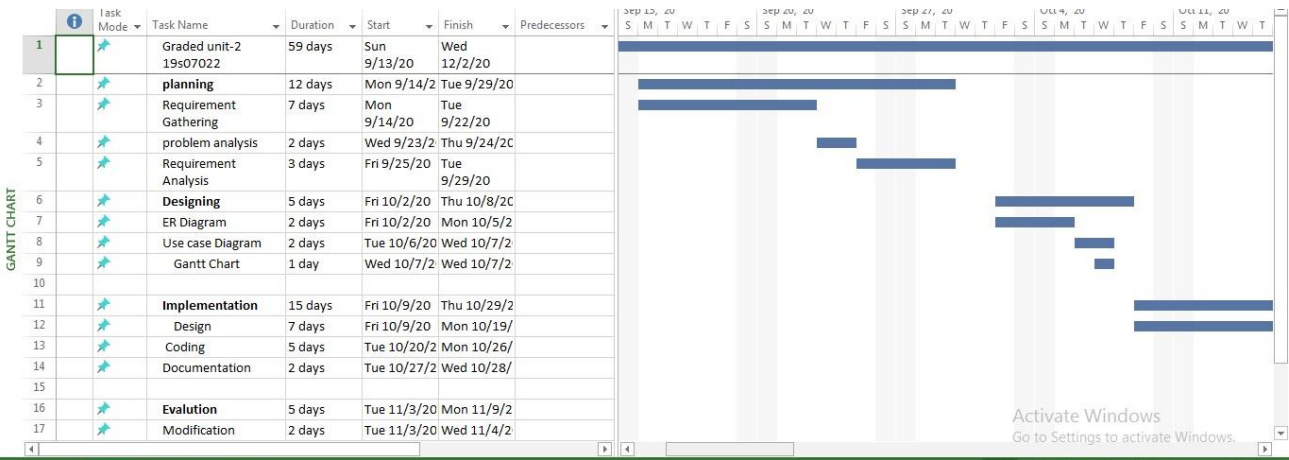| PK	StatusID
	StatusName
	CreatedUser
	ModifiedUser
	ModifiedUser
	CreatedDate
	ModifiedDate

ProductCategory

PK	ProductCategoryId
	ProductCategoryName
FK1	StatusId

User

PK	UserID
	UserName
	Password
	Token
FK1	CustomerID
FK2	StatusID

Order

PK	OrderID
FK1	BranchID
	OrderNumber
	OrderDate
	Amount
FK2	UserID
FK3	StatusID

Product

PK	ProductId
FK1	ProductCategoryId
	ProductName
	Brand
FK2	SatusId

Adress

PK	AdressId
	Line1
	Line2
	City
FK1	StatusId

Item

PK	ItemId
FK1	ProductId
FK2	BranchId
	ItemName
	Qty
	BuyingPrice
	SellingPrice
	ROP
FK3	StatusId

OrderItem

PK	OrderItemID
FK1	OrderID
FK2	ItemID
	Qty
	Ammount
FK3	StatusID

Branch

PK	BranchID
	BranchName
FK	AdressID

ProductReview

PK	ProductReviewId
FK1	ItemId
FK2	CustomerId
	Rating
	Comment

Checkout

PK	CheckoutId
FK1	OrderId
FK2	StatusId
	PaymentMethod

Gant chart

		Task Mode	Task Name	Duration	Start	Finish	Predecessors
1		📌	Graded unit-2 19s07022	59 days	Sun 9/13/20	Wed 12/2/20	
2		📌	**planning**	12 days	Mon 9/14/2	Tue 9/29/20	
3		📌	Requirement Gathering	7 days	Mon 9/14/20	Tue 9/22/20	
4		📌	problem analysis	2 days	Wed 9/23/2	Thu 9/24/20	
5		📌	Requirement Analysis	3 days	Fri 9/25/20	Tue 9/29/20	
6		📌	**Designing**	5 days	Fri 10/2/20	Thu 10/8/20	
7		📌	ER Diagram	2 days	Fri 10/2/20	Mon 10/5/2	
8		📌	Use case Diagram	2 days	Tue 10/6/20	Wed 10/7/2	
9		📌	Gantt Chart	1 day	Wed 10/7/2	Wed 10/7/2	
10							
11		📌	**Implementation**	15 days	Fri 10/9/20	Thu 10/29/20	
12		📌	Design	7 days	Fri 10/9/20	Mon 10/19/	
13		📌	Coding	5 days	Tue 10/20/2	Mon 10/26/	
14		📌	Documentation	2 days	Tue 10/27/2	Wed 10/28/	
15							
16		📌	**Evalution**	5 days	Tue 11/3/20	Mon 11/9/2	
17		📌	Modification	2 days	Tue 11/3/20	Wed 11/4/2	

		Task Mode	Task Name	Duration	Start	Finish	Predecessors
4		📌	problem analysis	2 days	Wed 9/23/2	Thu 9/24/20	
5		📌	Requirement Analysis	3 days	Fri 9/25/20	Tue 9/29/20	
6		📌	**Designing**	5 days	Fri 10/2/20	Thu 10/8/20	
7		📌	ER Diagram	2 days	Fri 10/2/20	Mon 10/5/2	
8		📌	Use case Diagram	2 days	Tue 10/6/20	Wed 10/7/2	
9		📌	Gantt Chart	1 day	Wed 10/7/2	Wed 10/7/2	
10							
11		📌	**Implementation**	15 days	Fri 10/9/20	Thu 10/29/20	
12		📌	Design	7 days	Fri 10/9/20	Mon 10/19/	
13		📌	Coding	5 days	Tue 10/20/2	Mon 10/26/	
14		📌	Documentation	2 days	Tue 10/27/2	Wed 10/28/	
15							
16		📌	**Evalution**	5 days	Tue 11/3/20	Mon 11/9/2	
17		📌	Modification	2 days	Tue 11/3/20	Wed 11/4/2	
18		📌	Improvements	2 days	Thu 11/5/20	Fri 11/6/20	
19		📌	Recommendation	1 day	Sun 11/8/20	Sun 11/8/20	

ABOUT US

```
    </div>
</div>
<div class="col-xl-7 col-lg-7 col-md-7 co-sm-l2">
    <div class="about_box">
        <span>Welcome to sulazz</span>
        <p style="text-align: justify;"> hey, your number one choice of custimzed clothing store. We're ded


            Founded in 2017 by sularaka madurapriya, sulazz creation Store has come a long way from its beg

    </div>
</div>
<div class="col-xl-7 col-lg-7 col-md-7 co-sm-l2">
    <div class="about_box_ ">
        <span>We are there for you</span>
        <p>We hope realize your hoping dress. If you have any questions or comments, please don't hesitate


            <br>Sincerely,</p>

            <p>sularaka madurapriya<br>Founder of su;azz creation</p>

    </div>
</div>
<div class="col-xl-5 col-lg-5 col-md-5 co-sm-l2">
    <div class="about_img">
        <figure><img src="images/about.jpg" alt="img" /></figure>
    </div>
```

This is screen shot about the page of about the sulazz creation. In this slide shows about the sulazz creation

- The address
- phone numbers
- Gmail address
- face book name
- Instagram name

We are start in 2017 and it also mention in this site. We are attach a small description about our company, our services, our history and our specifications.

LOGIN PAGE

```php
$conn = mysqli_connect($servername, $username, $password, $dbname);

if(!$conn) {
    die("Connection Error");
}

if(isset($_POST['submit'])) {


    //retreving values from form
    $username = $_POST['username'];
    $password = $_POST['password'];

    $sql = "SELECT * FROM user WHERE username='$username'";

    $result = mysqli_query($conn, $sql);

    if(mysqli_num_rows($result)>0) {
        $row = mysqli_fetch_assoc($result);

        if(password_verify($password,$row['password'])) {
            $_SESSION['username'] = $username;
            header("location:");
        } else
            echo "You have an issue with your password or username";
    } else {
        echo "You have an issue with your password or username";
    }
}

?>
```

This is the login page backend codes of sulazz creation website. A customer who was already have an account he can login using their email address and password and click the logging button he or she can login sulazz creation website. Someone who doesn't have an account he or she can create a new account using our **create an account** option.

SIGN UP

```php
if(isset($_POST['submit'])) {


    //retreving values from form
    $username = $_POST['username'];
    $password = password_hash($_POST['password'],PASSWORD_DEFAULT);    //Password encription method
    $email = $_POST['email'];
    $telephone = $_POST['telephone'];
    $address = $_POST['address'];



    $sql = "INSERT INTO user (username,password,email,telephone,address)
            VALUES('$username','$password' ,'$email' ,'$telephone', '$address')";

    if(mysqli_query($conn,$sql)===TRUE) {
        $_SESSION['username'] = $username;
        echo "User Registered Successfully!";
    } else {
        echo mysqli_error($conn);
    }
}
```

This is the signup page of sulazz creation website. Someone who doesn't have an account he or she have create a new account and sign with us. If someone wants to sign up first he or she should signup button. After put a username as they wish. After put the username they can create a password for logging we are using password **encrypting methods** for protect customer's privacy and security. Customer should their details.

- Home address
- Telephone number
- Email address

After enter their details we create a new account for that customer and we register he or she in our website.

ACCOUNT

```html
        </li>
    </ul>
    <div class="clearfix"></div>
</div>

<div class="col-md-6 login-right wow fadeInRight" data-wow-delay="0.4s">
    <h3>REGISTERED CUSTOMERS</h3>
    <form action="php/loging.php" method="POST">
        <div>
            <span>Email Address<label></label></span>
            <input type="text" name="email" placeholder="Enter Email"required>
        </div>
        <div>
            <span>Password<label></label></span>
            <input type="password" name="pass" placeholder="Enter passwoed"required>
        </div>
        <input type="submit" value="Login" name="submit">
    </form>
        <div class="account_grid">
            <div class="col-md-5 login-left wow fadeInLeft" data-wow-delay="0.4s">
                <a class="acount-btn" href="register.html">Create an Account</a>
            </div>
        <div class="clearfix"> </div>
</div>
```

This is the account page of sulazz creation website. After the registration customer can create own account in our website. Customer should add their email address it is required. After that customer should create a password to logging. Customer reenter the password and after confirmed it he can finished it account.

DATABASE

```php
<?php
$mysqli = new mysqli("localhost","root","","db_sulazz");

// Check connection
if ($mysqli -> connect_errno) {
  echo "Failed to connect to MySQL: " . $mysqli -> connect_error;
  exit();
}
?>
```

This is the structure of the sulazz creation website database. Its create on using **MySQL** this is the one of the most wanted section in this site we can give connection each other from the database every details of customers, our products, prices and much more are store in this.

CATEGORY

```html
<div class="container">

</div>
<div class="brand-bg">
    <div class="container">
        <div class="row">
            <div class="col-xl-4 col-lg-4 col-md-4 col-sm-6 margin">
                <div class="brand_box">
                    <a href="t-shirts.php"> <img src="images/1.png" alt="img" /></a>
                    <h3><strong class="red">T-shirts</strong></h3>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                </div>
            </div>
            <div class="col-xl-4 col-lg-4 col-md-4 col-sm-6 margin">
                <div class="brand_box">
                    <a href="shirts.php"><img src="images/2.png" alt="img" /></a>
                    <h3><strong class="red">Shirts</strong></h3>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                </div>
            </div>
            <div class="col-xl-4 col-lg-4 col-md-4 col-sm-6 margin">
                <div class="brand_box">
                    <a href="trousers.php"><img src="images/3.png" alt="img" /></a>
                    <h3><strong class="red">Trousers</strong></h3>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
                    <i><img src="images/star.png"/></i>
```

This is the Category page of sulazz creation website. Our website shows every costume category of sulazz creation have. This slide shows t shirts, shirts, trousers. Customer can view our every product category form the using this. We are attached image in every product we sell. Customer can select and purchase the product easily using this

ADD TO CART

```php
    <tr>
        <th>product ID</th>
        <th>Name</th>
        <th>price</th>
        <th></th>
    </tr>
</thead>
<tbody>
    <?php if(isset($_SESSION['cart'])) {
            foreach($_SESSION['cart'] as $item => $qty) {

        $sql = mysqli_query($conn,"SELECT * FROM product WHERE product_id='$item'");
        $row = mysqli_fetch_assoc($sql);

    ?>
        <tr>
            <td><?php echo $row['product_id']; ?></td>
            <td><?php echo $row['Name']; ?> </td>
                    <td><?php echo $row['Price']; ?> </td>
                    <td><?php echo $qty; ?> </td>
            <td><a href="deletefromcart.php?product_id=<?php echo $row['product_id']; ?>" class="btn btn-wa

        </tr>
    <?php
    }
    } ?>

</tbody>
```

This is the Add to cart section of our website. Customer can select their like product and he or she can put it to the cart and can going to another product finally end of the shopping every costumes customers choose is in that cart. Customer just only pay for the value of cart's value. Customer can add item and can remove items form this option.
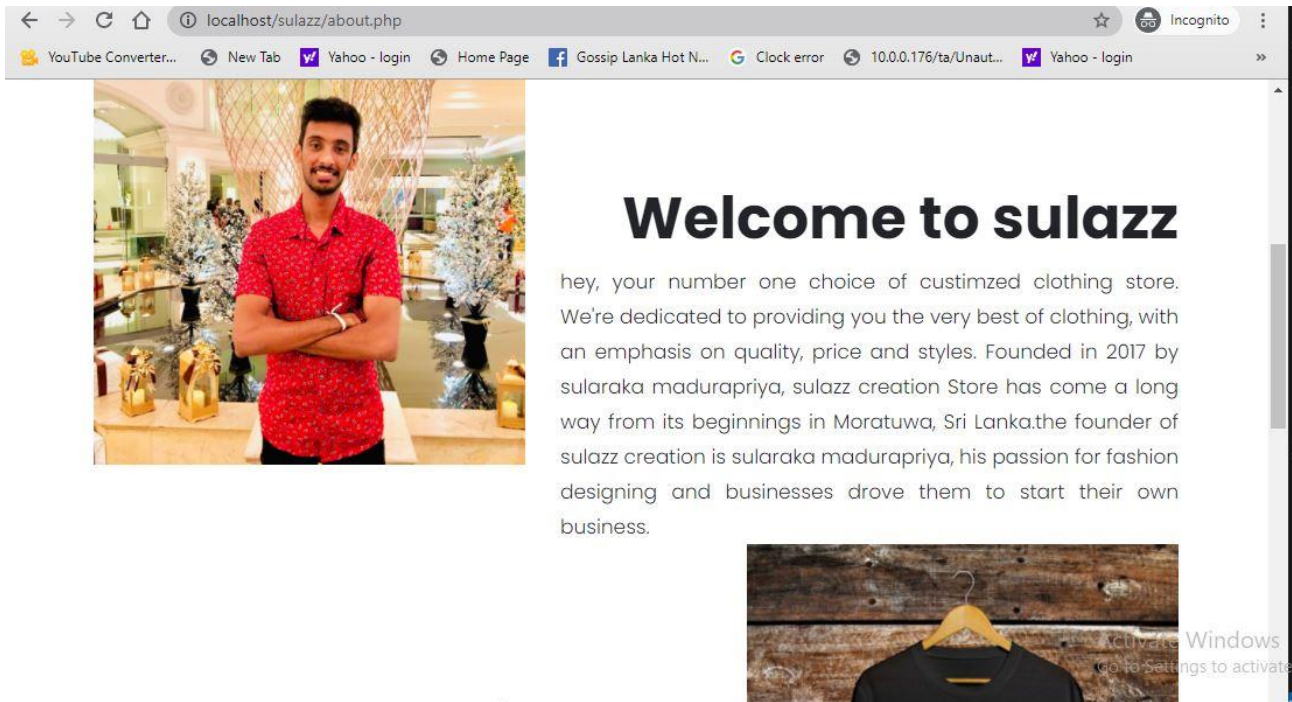
"Sulazz" which was founded in 2017 has become one of the Sri Lanka's most trending clothing stores by the date. This is the first clothing store which is exclusive for men & we have a huge customer base all over the country as we provide the best products with the best price people can ever find in country. Order now and take it to your door step.

Hey, your number one choice of customized clothing store. We're dedicated to providing you the very best of clothing, with an emphasis on quality, price and styles. Founded in 2017 by **Sularaka_Madurapriya**, sulazz creation Store has come a long way from its beginnings in Moratuwa, Sri Lanka. the founder of sulazz creation is sularaka madurapriya, his passion for fashion designing and businesses drove them to start their own business.

2 ONLINE SHOPPING APPLICATION:

Anyone can view Online Shopping portal and available products, but every user must login by his/her Username and password in order to purchase or order products. Unregistered members can register by navigating to registration page. Only Admin will have access to modify roles, by default developer can only be an 'Admin'. Once user register site, his default role will be 'User'.

HOMEPAGE: The Home Screen will consist of screen were one can browse through the products which we have on our website.

Your name		Email
Phone		
Message		

Send

Activate Wi

HOME PAGE
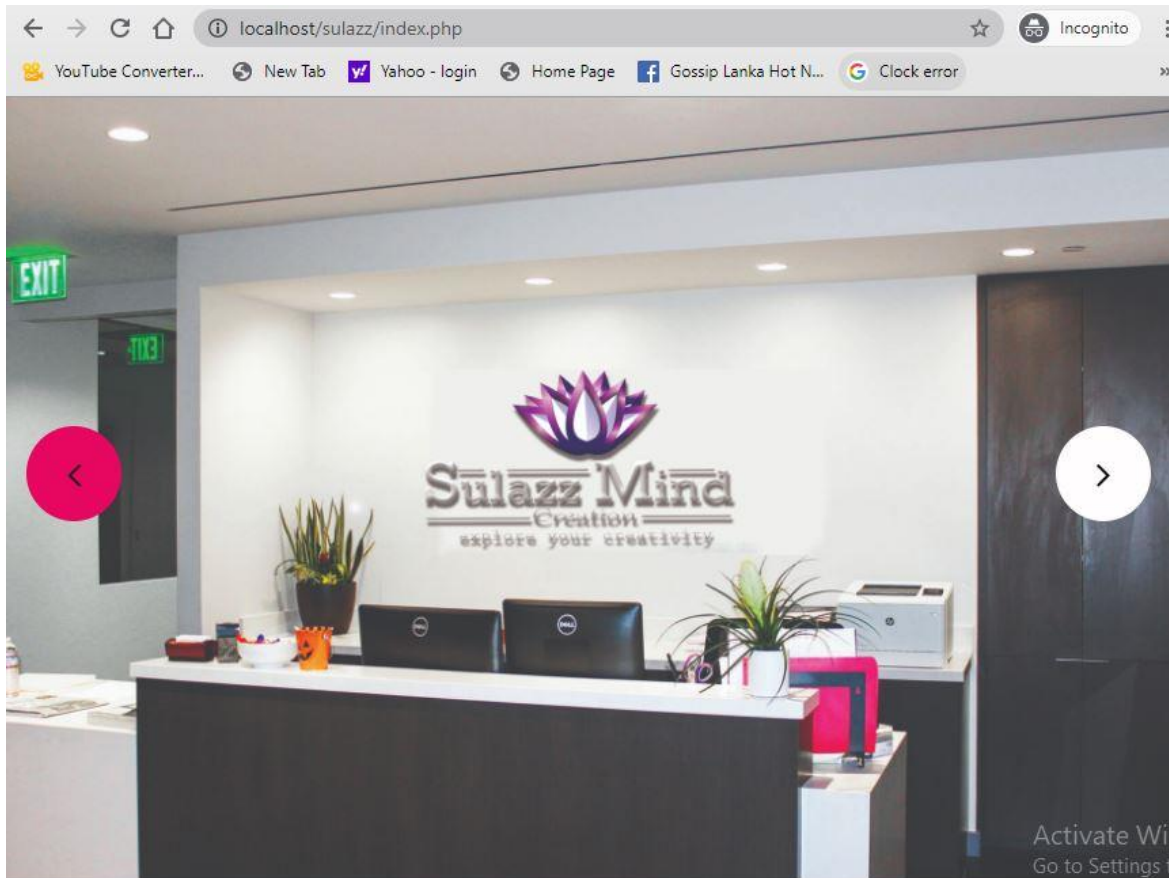
This is sulazz creation our website home page we added a picture of our front office for the cover of our website. We hope to do familiar our logo and our shop for among the customers using attach that type pictures. However we think we can get attraction of customers using cover photo like this
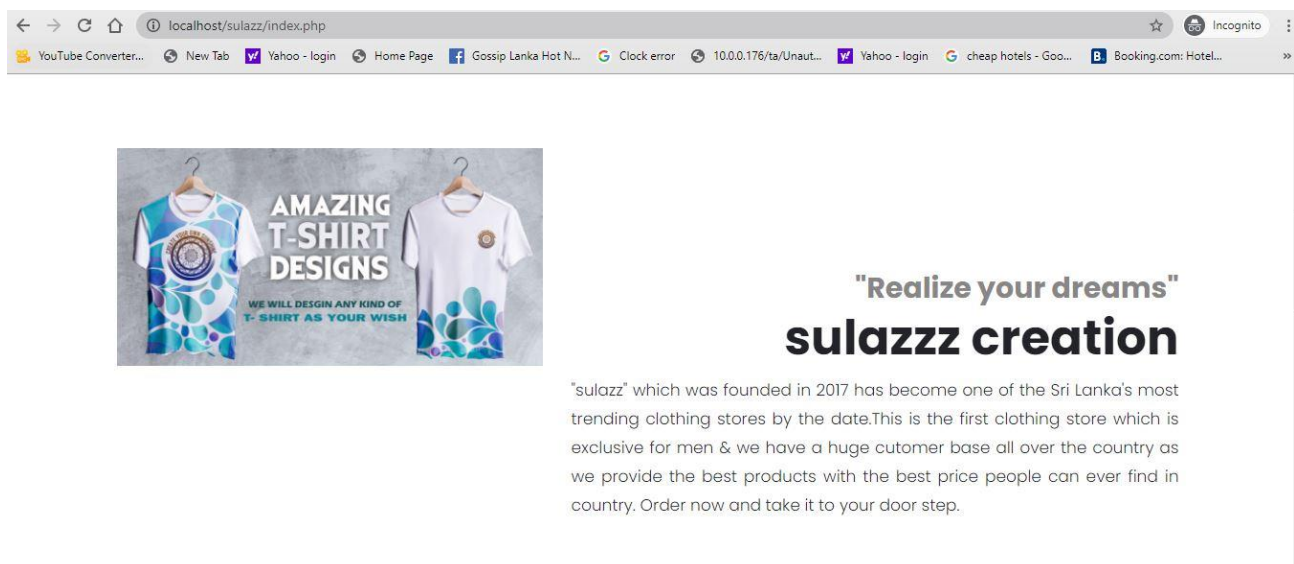
CATEGORY
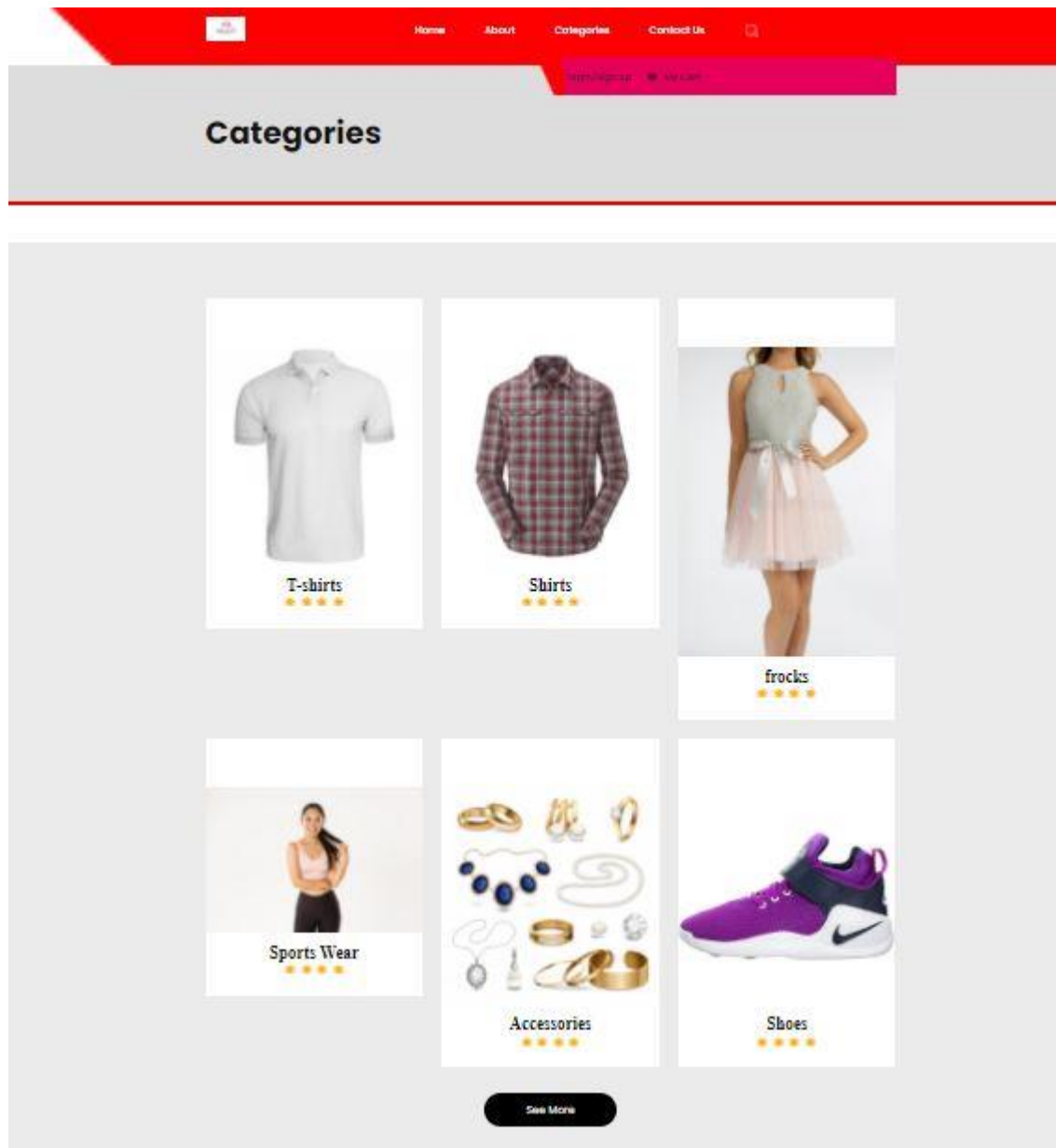
This slide show the categories we have. Sulazz creation are mainly are providing T shorts. But we are provide shirts, frocks, sports, ware accessories, shoes as our sub products. Sulazz creation website has a big fashion collection when you are go thru our site can get next level shopping experience.

← → C ⌂ ⓘ localhost/sulazz/t-shirts.php ☆ 🕶 Incognito

YouTube Converter... 🌐 New Tab Ⓨ Yahoo - login 🌐 Home Page f Gossip Lanka Hot N... G Clock error 🌐 10.0.0.176/ta/Unaut... Ⓨ Yahoo - login

Rs 1700   **Rs 1700**   **Rs 1700**

← → C ⌂ ⓘ localhost/sulazz/trousers.php ☆ 🕶 Incognito

YouTube Converter... 🌐 New Tab Ⓨ Yahoo - login 🌐 Home Page f Gossip Lanka Hot N... G Clock error 🌐 10.0.0.176/ta/Unaut... Ⓨ Yahoo - login

frocks

Shoes

Rs 3200

Rs 3500

Rs 3000

Rs 3500

Rs 4000

Rs 3500

See More

Sports wear

Rs 1200

Rs 1050

Rs 1100

Rs 950

Rs 1600

Rs 1000

See More

ADRESS

This our address line this shows our company address, telephone number our Gmail address and customers can go to our Facebook and Instagram account using click that icon. In bottom of every page in our website you can see this. @2020 all right reserved design by Sularaka Madurapriya

3 Data Management

3.1 Data Description

This database consists of

- ➢ Users: User and Admin information is added to database with Unique ID based on their roles.
- ➢ Shopping: Complete products information is stored in this table.
- ➢ Orders: Customer ordered products, status and delivery information is stored in this table.

3.2 Data Objects

- ➢ User: ID, Username, Password, Email, Role
- ➢ Shopping: ID, Product, Product ID, Cost, Category, Image, Description

➢ Orders: ID, Client, Product, Quantity, Price, Date, Order Shipped

Evolution

3.1 Outline of the assignment

From this web page we hope that all our customers will be able to bring home goods they need from home in this critical time. This will make it easier for the customer community to get what they want.

3.2 Strength and weakness

3.3 Strength

1. Improved user experience
2. An increase in mobile traffic
3. Faster website development
4. Easier maintenance
5. No duplicate content penalty
6. Simpler website analytic
7. Better website loading times
8. Lower bounce rates

3.4 Weakness

1. There's no clear path
2. Outdated design
3. Overused stock images and icons
4. Too many textures and colors
5. Design for the wrong reasons
6. Cute that doesn't cut it
7. My site isn't optimized for mobile
8. My play hard to get.