

INTEGRATED SYSTEM PROJECT (IT299N)

FINAL REPORT

SESSION : JANUARY – APRIL 2019



SEGi
College

Penang

A member of
SEGi University Group

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Intake	:	JAN 2017
Subject Title	:	INTEGRATED SYSTEM PROJECT
Subject Code	:	IT299N
Assignment Title	:	FINAL REPORT
Name of Lecturer	:	MR SHAHIDH
Due Date	:	14 th April 2019, 6.00pm
College	:	SEGI COLLEGE, PENANG

Declaration by student:

I, NG YUAN SHEN, hereby declare that the attached assignment is my own work and understand that if I am suspected of plagiarism or another form of cheating; my work will be referred to the lecturer who may, as a result recommend to the Examinations Board that my enrolment in the programme be discontinued.

Date 12/4/2019

Signature of student

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Acknowledgement

I might want to express my most profound gratefulness to each one of the individuals who gave me the possibility to finish this final year project. A special appreciation I give to our Integrated System Project lecturer, Mr. Shahidh, whose commitment in giving me suggestions and advices, helped me to arrange my task particularly especially in developing this system. I might also want to extend my appreciation to every one of the individuals who have guided me in developing this system.

Besides, I would also like to acknowledge with Mr. Ryan, who taught me how to integrate PayPal payment system with my system and gave me some advices in solving problems.

Finally, a thank you to my classmates, who have gave me many valuable comments on my system and thus inspire me to improve and enhance my system.

System Planning

i. Introduction

Founded in 2012, LiveTee is a multinational clothing-retail company that based in Malaysia. It is known as one of the fastest growing online clothing retailer in Malaysia. It sells fashion clothing for men, women as well as children. LiveTee is always trying to localize its products to fit the demands of customer by determining the current fashion trends in Malaysia. In order to attract more customers, LiveTee have been using famous cartoon characters, such as Disney characters (with permission), on their clothing. The clothing are sold in concept store based in Penang as well as e-commerce website. LiveTee has about 100 of workers and it produces thousands of clothing per day.

ii. Brief Description of the Current System

Current cloth selling system is an online shopping website that sells clothing that suits everyone. Users have to register for an account and login to it in order to add items to cart and proceed to payment. Users are able to select size and quantity for each product. Admin and staffs are able to add new products, delete products as well as edit information of each product. Online banking to the bank account stated on the webpage is needed to place an order.

iii. Problems and Limitation of the Current System

- Admin and staff are not able to manage and restock stock
- Admin and staff are not able to checkout using payment system such as PayPal
- Customers are not able to make reviews after purchasing the item
- Admin and staff are not able to view sales report
- Admin is not able to add and manage new staff

iv. Objectives of the Proposed System

- Enable customer to view and purchase clothing of our company online
- Manage stock and sales efficiently
- Get reviews and feedback from customers
- Reach more consumers from Malaysia
- Save cost for physical store operation

v. Project Scope Definition

Modules	Description
User Account Management	Customer registration Edit profile information Admin and staff registration View profile
Products (Cloths)	View products with search filters Add products View existing products Restock products View available stocks Delete products Edit products information
Purchase	Add item to cart View cart items Remove item from cart Edit quantity or size in cart Make payment View purchase history Admin manage orders from customers Admin view sales history
Report	Admin is able to view sales using graphs Admin is able to select type of graphs Admin is able to select the range of sales report
Review and rating	User provide review and rating Visitors view review and rating

vi. Hardware and Software selection

Hardware:

Personal computer.

Software:

Programming language: HTML, CSS, JavaScript and PHP.

DBMS: phpMyAdmin

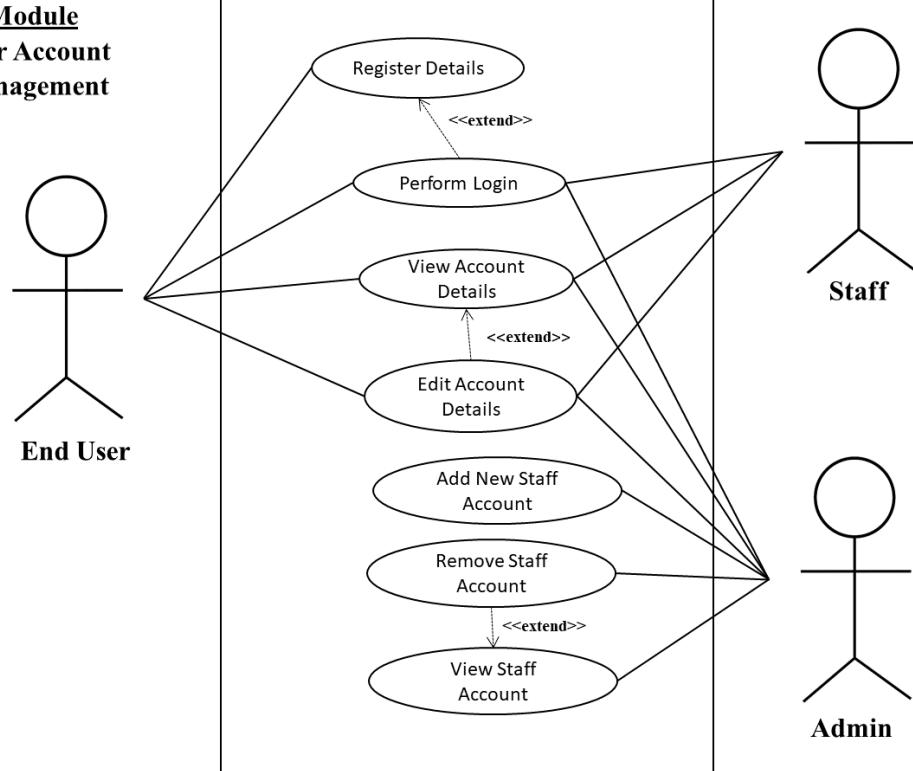
Documentation: Microsoft Office

System Analysis and Design

i. Use Case Diagram

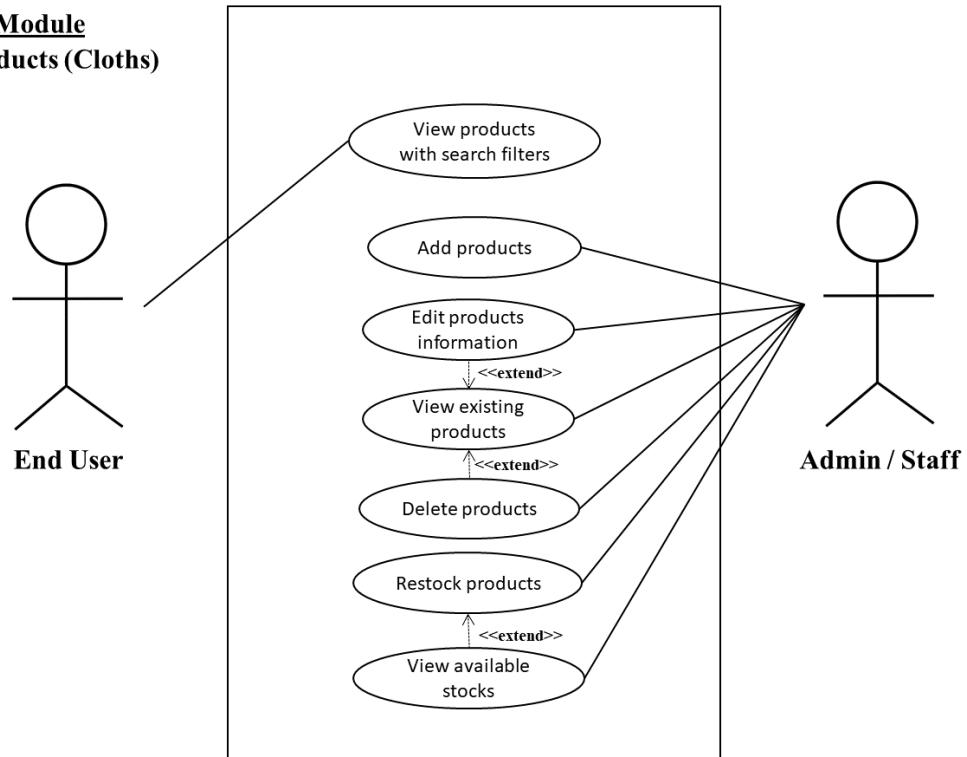
1st Module

User Account Management



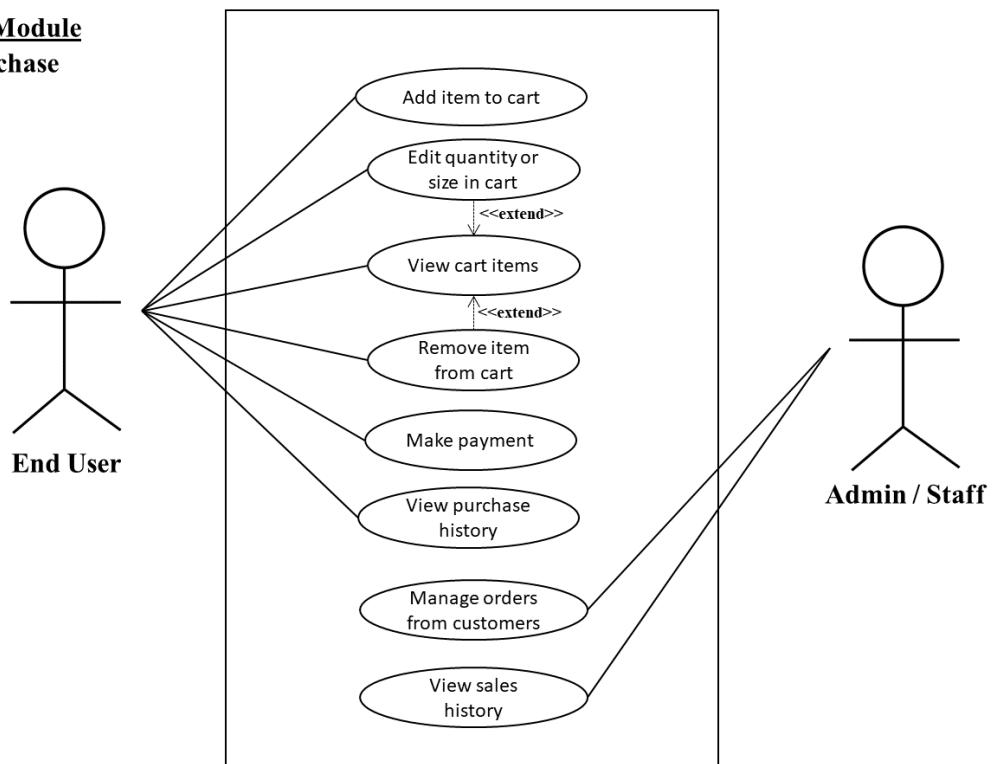
2nd Module

Products (Cloths)



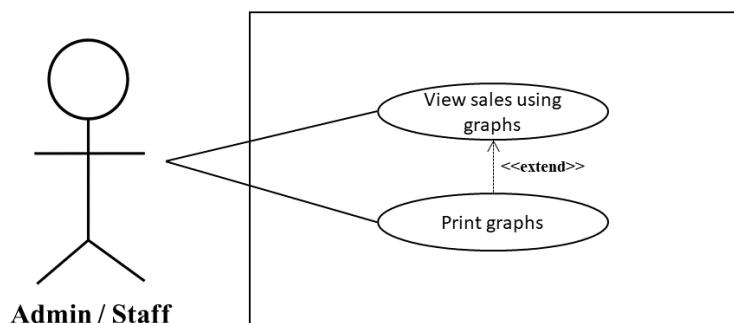
3rd Module

Purchase



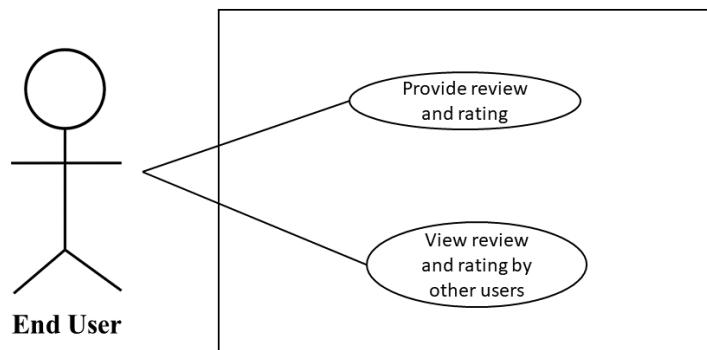
4th Module

Report

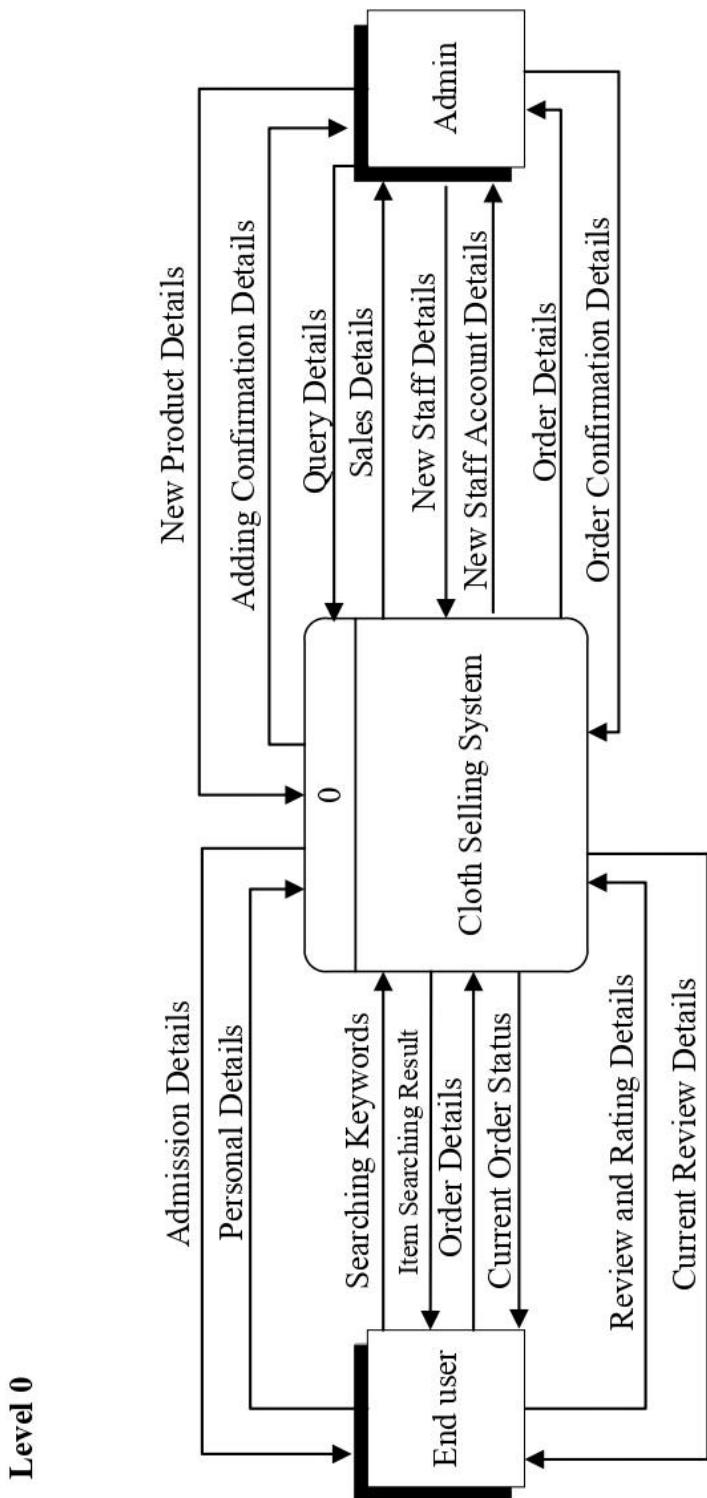


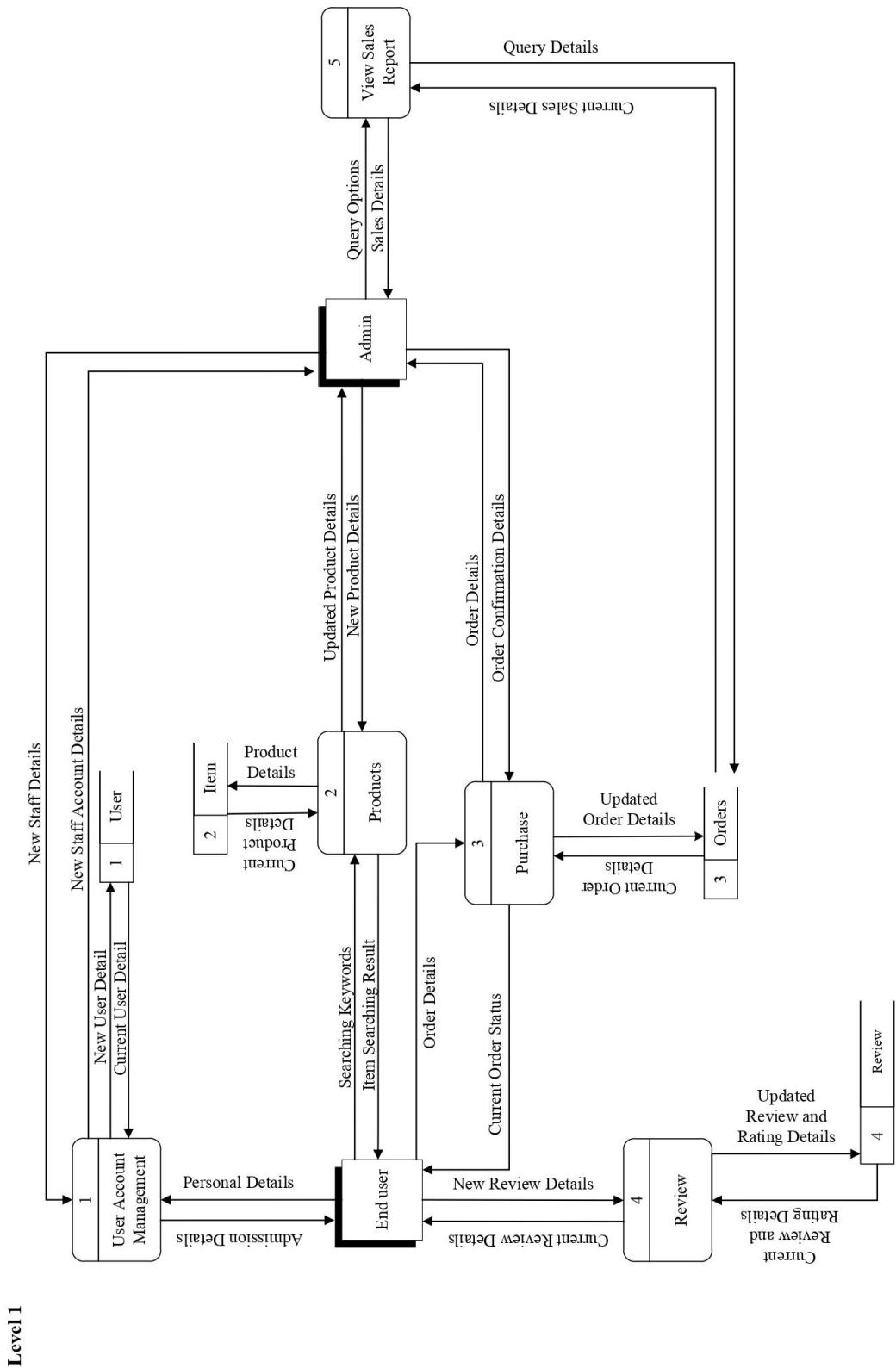
5th Module

Review

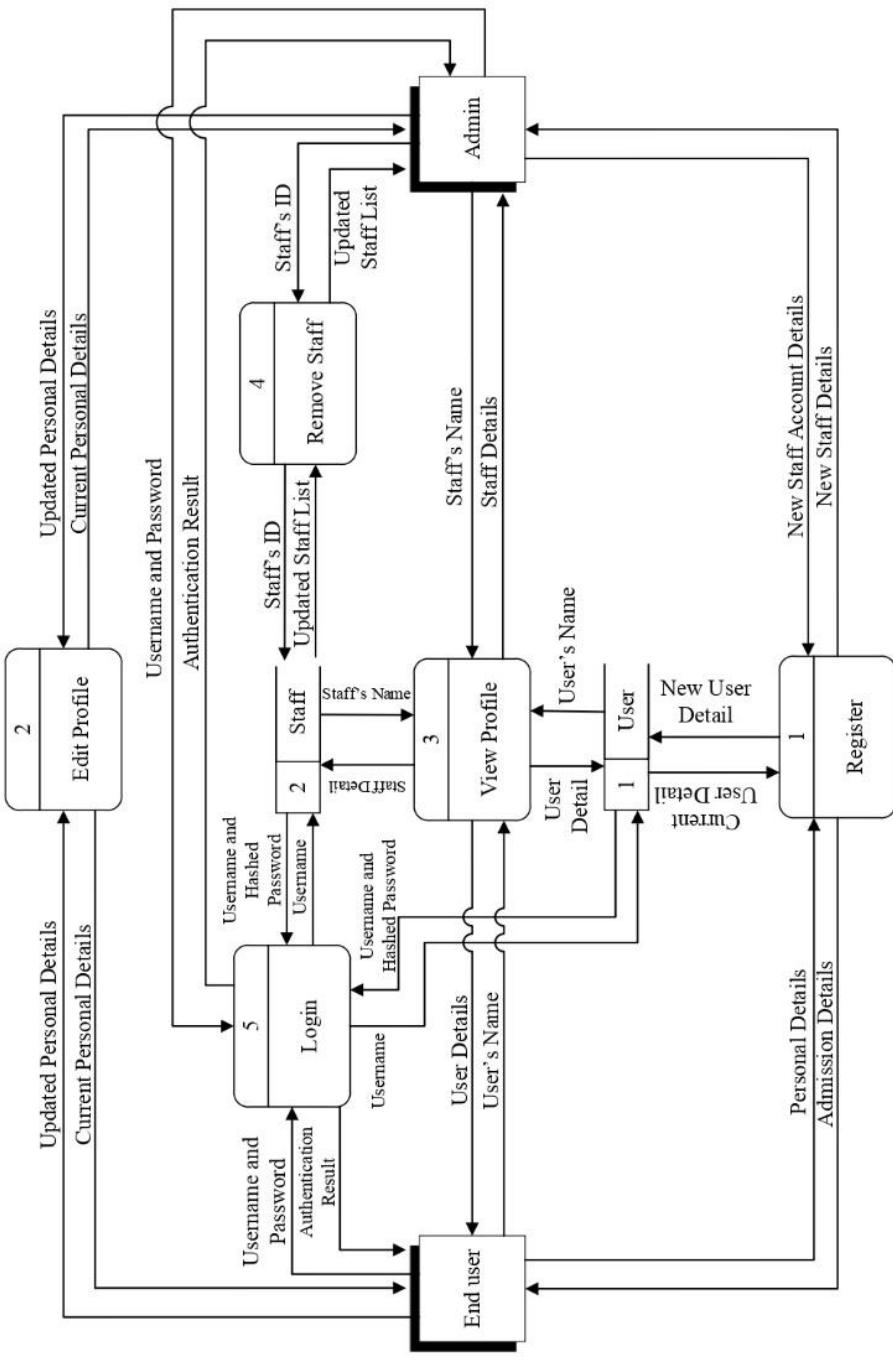


ii. Data Flow Diagram

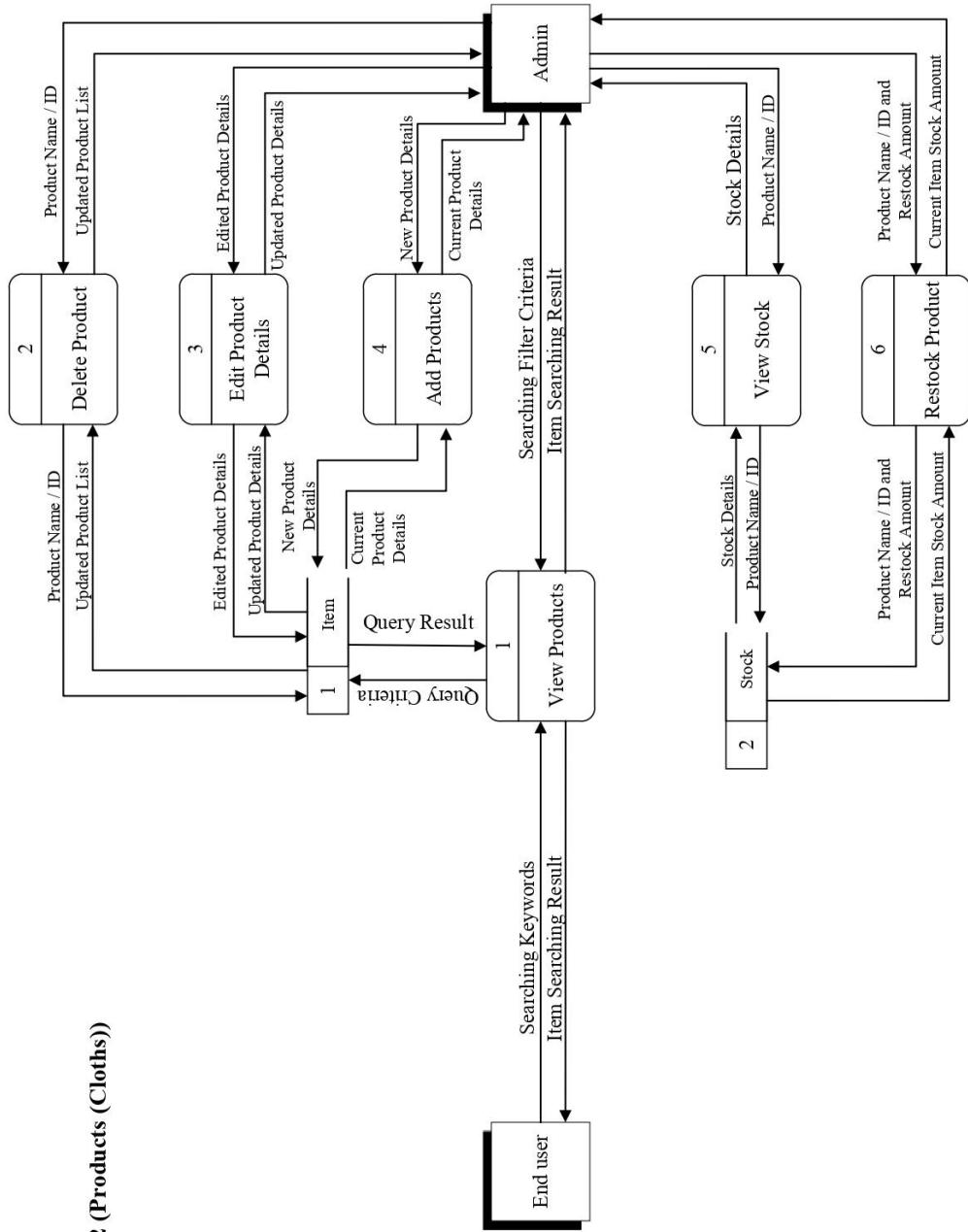




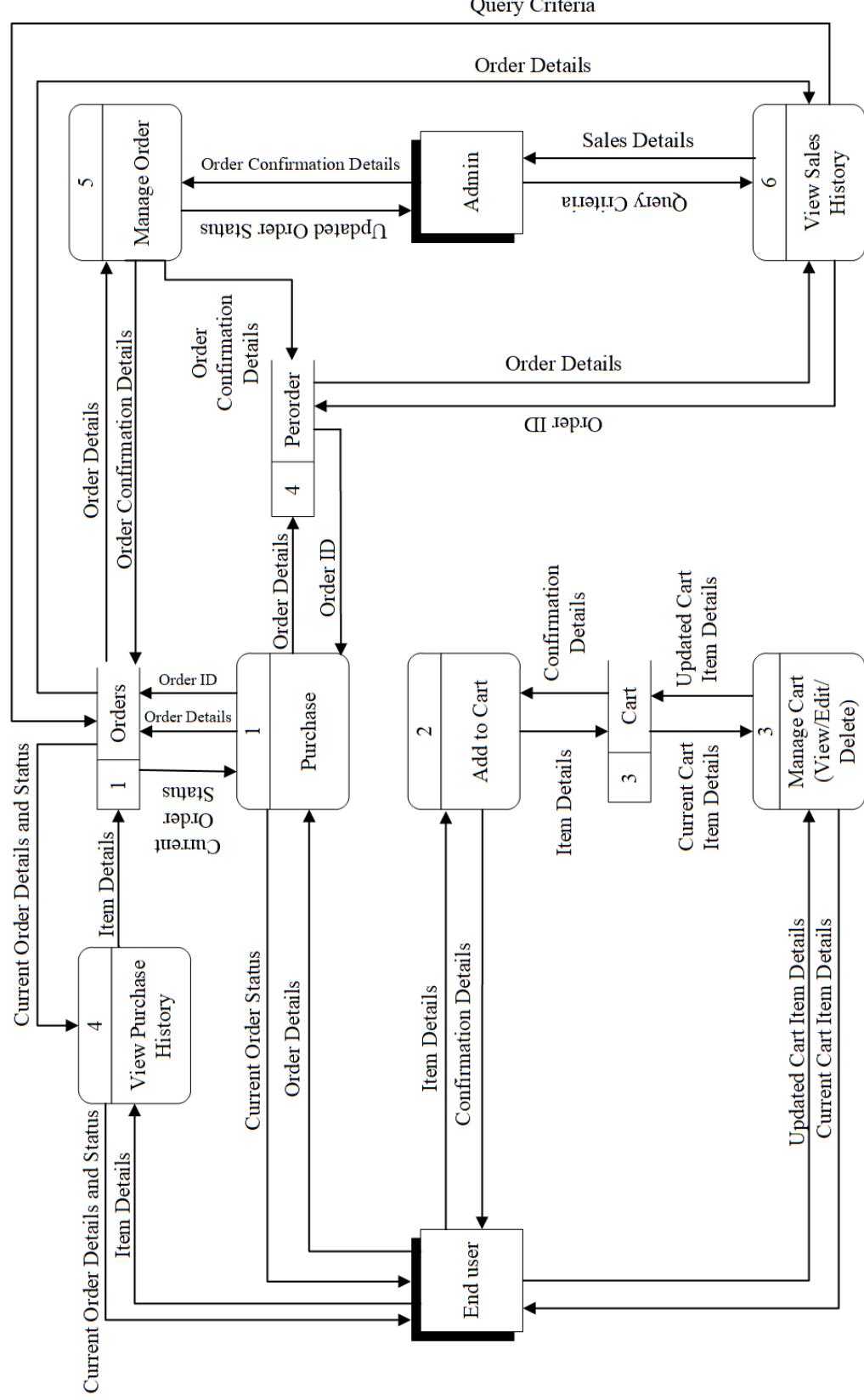
Level 2 (User Account Management)



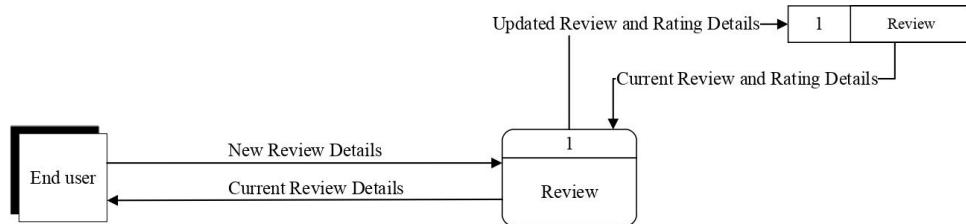
Level 2 (Products (Cloths))



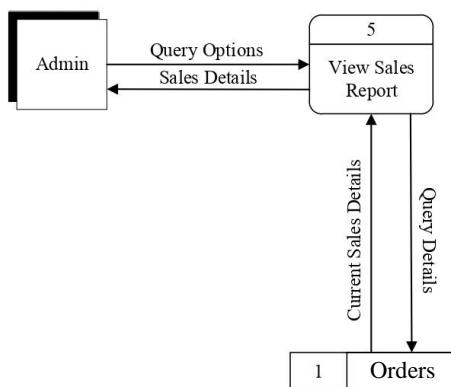
Level 2 (Purchase)



Level 2 (Review)

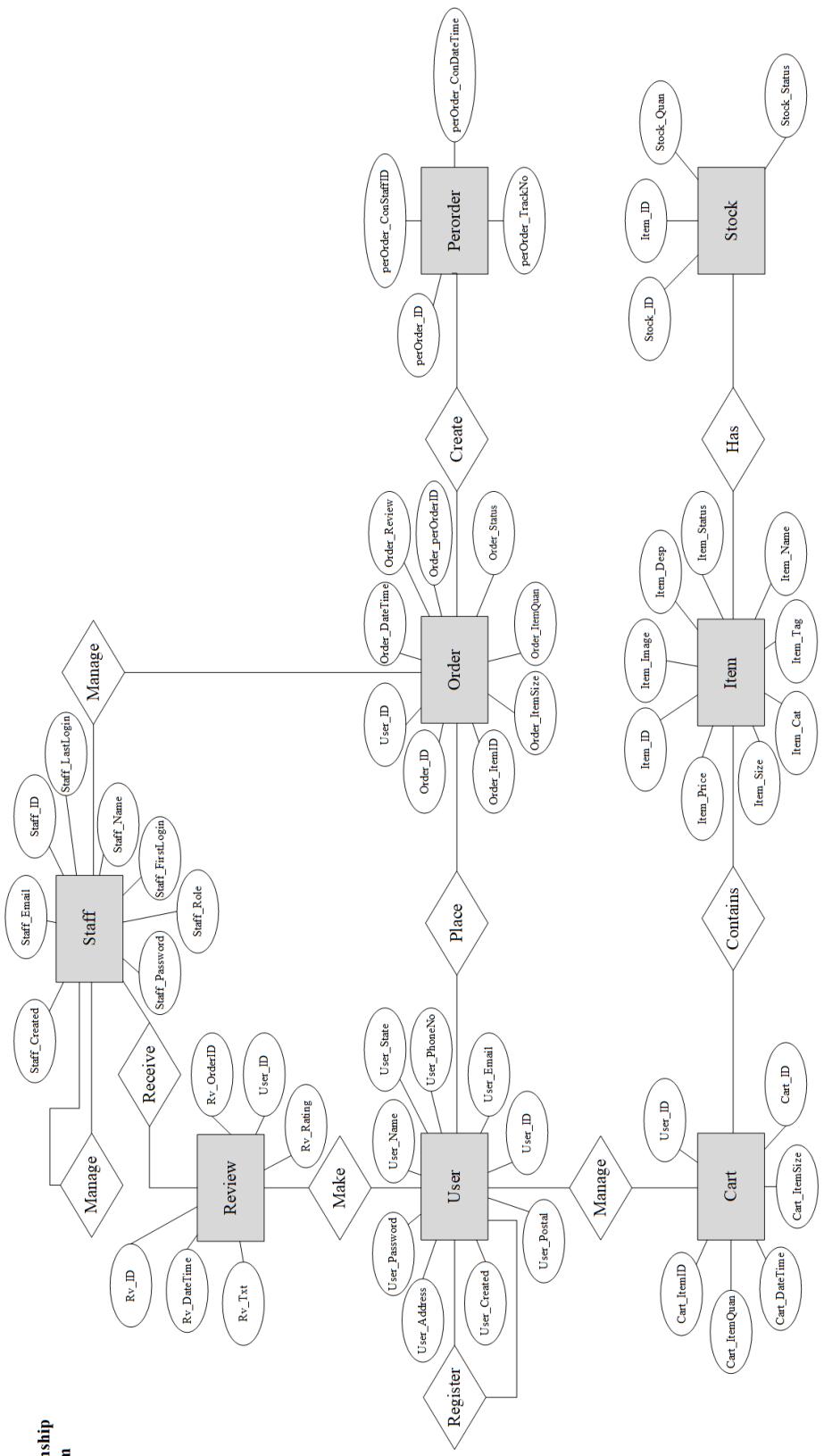


Level 2 (Report)



Entity Relationship Diagram

iii. Entity Relationship Diagram



iv. Data Design

1. Staff

Field Name	Type	Constraint Type	Description
Staff_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every staff
Staff_Email	varchar(100)	Primary Key	Staff's email
Staff_Name	varchar(100)		Staff's name
Staff_FirstLogin	boolean		Determine first login of user and ask them to change a new password
Staff_Password	varchar(20)		Staff's hashed password
Staff_Role	char(1)		Role as staff or admin
Staff_LastLogin	timestamp		Date and time where staff last login
Staff_Created	timestamp		Date and time where staff account is created

2. User

Field Name	Type	Constraint Type	Description
User_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every user
User_Name	varchar(100)		User's name
User_Email	varchar(100)	Primary Key	User's email
User_Password	varchar(20)		User's hashed password
User_PhoneNo	varchar(20)		User's phone number
User_Address	text		User's Birthday
User_Created	timestamp		Date and time where user account is created
User_Postal	varchar(10)		User's postal code for delivery purpose
User_State	varchar(20)		User's state for delivery purpose

3. Item

Field Name	Type	Constraint Type	Description
Item_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every item
Item_Name	varchar(255)	Primary Key	Item's name
Item_Price	decimal(7,2)		Item's price
Item_Desp	text		Item's description
Item_Size	varchar(50)		Item's size
Item_Cat	varchar(20)		Item's category
Item_Image	blob		Item's preview image
Item_Tag	varchar(20)		Item's tag such as “Sales” or “New”
Item_Status	tinyint(1)		Item's status, whether it is available for sale or not

4. Stock

Field Name	Type	Constraint Type	Description
Stock_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every stock
Item_ID	int(11)		Item's ID which the stock belongs to
Item_Size	varchar(11)		Item's size
Stock_Quan	int(11)		Stock's quantity been added

5. Orders

Field Name	Type	Constraint Type	Description
Order_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every order
User_ID	int(11)		User's ID which the order belongs to
Order_ItemID	int(11)		Item's ID in current order
Order_ItemSize	varchar(5)		Item's size in current order
Order_ItemQuan	int(11)		Item's quantity in current order

Order_Status	varchar(20)		Whether the order is still processing, delivering or received
Order_Review	tinyint(1)		Check if current order has written its review
Order_DateTime	timestamp		Date and time when the order is placed
Order_perOrderID	int(11)		

6. Perorder

Field Name	Type	Constraint Type	Description
perOrder_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID for every orders group
perOrder_ConStaffID	varchar(11)		Staff's ID of staff that confirm the order
perOrder_ConDateTime	timestamp		Date and time when order is confirmed
perOrder_TrackNo	varchar(100)		Tracking number for delivered items

7. Cart

Field Name	Type	Constraint Type	Description
Cart_ID	int(11)	Primary Key, AUTO_INCREMENT	Unique ID of every cart of users
User_ID	int(11)		User's ID which the cart belongs to
Cart_ItemID	int(11)		Item's ID in current cart
Cart_ItemQuan	int(11)		Item's quantity in current cart
Cart_ItemSize	varchar(5)		Item's size in current cart

Cart_DateTime	timestamp		Date and time when the item is added to cart
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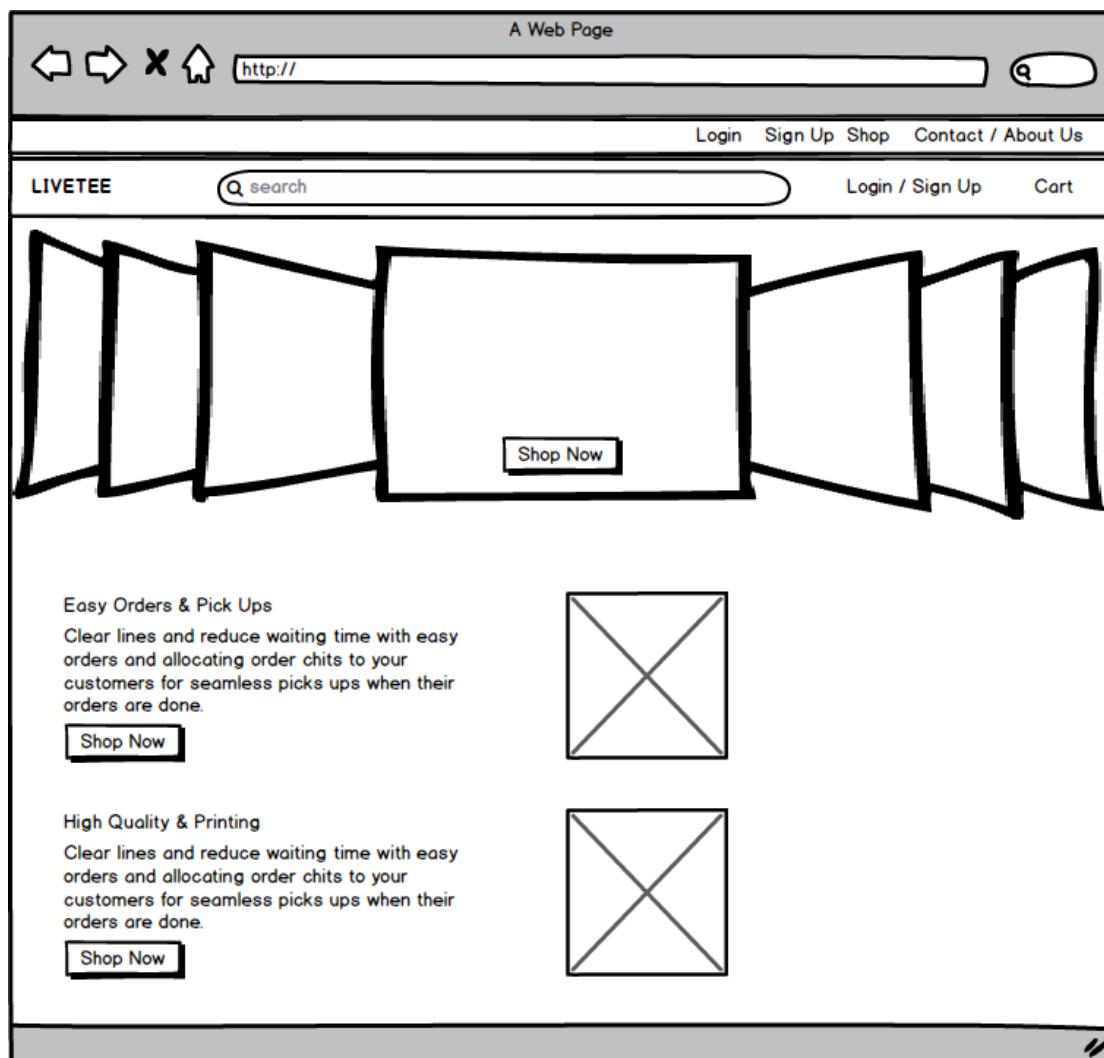
8. Review

Field Name	Type	Constraint Type	Description
Rv_ID	text	Primary Key, AUTO_INCREMENT	Unique ID of every review and rating
Rv_OrderID	int(11)	Primary Key	Item's ID which the review and rating belongs to
User_ID	int(11)		User's ID which the review and rating belongs to
Rv_Txt	text		Review text from user
Rv_Rating	char(1)		Rating by user from 1 star to 5 stars
Rv_DateTime	timestamp		Date and time when the rating and review is submitted
Rv_AprvStatus	varchar(20)		Approval status of review and rating

v. Interface Design (Balsamiq)

Frontend

1. Home page



2. Shop page

A Web Page

http://

Login Sign Up Shop Contact / About Us

LIVETEE search Login / Sign Up Cart

Collection
Sales New

Clothing
Dressing
Tops
T-Shirts
Pants
Shorts
Jeans

Sort By: Popularity

MICKEY CAMERA - BLACK
RM50
S, M, L

1 < 1 > 10

3. Product page

A Web Page

http://

Login Sign Up Shop Contact / About Us

LIVETEE search Login / Sign Up Cart

UA Tech Short Sleeve Tee
RM50

Size M ▾
Quantity 3 ▾

Add To Cart

Details

SKU	A5872AA88B602BGS
Colour	Black/Graphite
Care label	Machine wash cold
Material	100% Polyester
Production country	Mexico

Reviews

Jeslyn Ng

Nice.
2019-04-02 03:19PM

1 < 1 > 4

4. Login page

A Web Page

http://

Login Sign Up Shop Contact / About Us

LIVETEE search Login / Sign Up Cart

Welcome to LiveTee! Please login.

Email

Password

Not a member? Register Here

5. Register page

A Web Page

http://

Login Sign Up Shop Contact / About Us

LIVETEE search Login / Sign Up Cart

Create Your LiveTee Account.

Full Name Phone Number
Email Address
Password Postal Code
Confirm Password State
By clicking "SIGN UP" I agree to LiveTee Privacy Policy

Login Here

6. Profile page

A Web Page

http://

Logout Shop My Purchase My Account Contact / About Us

LIVETEE search Username Cart

My Account
Change Password
My Purchase
My Reviews

My Account

Full Name
Email
Phone Number
Address
Postal Code
State

7. Profile – Change Password page

A Web Page

Logout Shop My Purchase My Account Contact / About Us

LIVETEE Username Cart

Profile Change Password My Purchase My Reviews

Change Password

Current Password

New Password

Confirm New Password

Confirm

8. My Purchase page

A Web Page

Logout Shop My Purchase My Account Contact / About Us

LIVETEE Username Cart

Profile Change Password My Purchase My Reviews

My Purchase

Order #210052490896819 Placed on 11 Nov 2018 12:19:52 Track
Clothing Name Qty: 1 M RM16 Delivering

Order #210052490896819 Placed on 11 Nov 2018 12:19:52 Received Write Review

9. Write Review page

A Web Page

http://

Logout Shop My Purchase My Account Contact / About Us

LIVETEE search Username Cart

Profile Change Password My Purchase My Reviews

Write Review
Order #14
Placed on 2019-03-13 08:50PM
Confirmed on 2019-03-13 08:50PM

Tsum Tsum - Winnie White Qty: 2 Size: S RM32

Review

Rating

Submit < Back

10. View Review page

A Web Page

http://

Logout Shop My Purchase My Account Contact / About Us

LIVETEE search Username Cart

Profile Change Password My Purchase My Reviews

View Review
Order #14
Placed on 2019-03-13 08:50PM
Confirmed on 2019-03-13 08:50PM

Tsum Tsum - Winnie White Qty: 2 Size: S RM32

Review ...

Rating ...

< Back

11. My Review page

A screenshot of a web browser window titled "A Web Page". The address bar shows "http://". The navigation bar includes links for Logout, Shop, My Purchase, My Account, Contact / About Us, and a search bar. The main content area is titled "My Reviews" and contains a table showing five reviews for "Mickey Camera - Black" with a rating of ***** and the review "Nice printing".

Rating	Review	Item Name	Submitted Date Time
*****	Nice printing	Mickey Camera - Black	2019-04-05 08:36AM
*****	Nice printing	Mickey Camera - Black	2019-04-05 08:36AM
*****	Nice printing	Mickey Camera - Black	2019-04-05 08:36AM
*****	Nice printing	Mickey Camera - Black	2019-04-05 08:36AM
*****	Nice printing	Mickey Camera - Black	2019-04-05 08:36AM

12. Cart page

A screenshot of a web browser window titled "A Web Page". The address bar shows "http://". The navigation bar includes links for Logout, Shop, My Purchase, My Account, Contact / About Us, and a search bar. The main content area displays a shopping cart with one item: "Clothing Name" (checkbox checked), Size "M" (dropdown menu), Price "RM 10", Quantity "3" (dropdown menu), and Total "RM 30". At the bottom, there are buttons for "Select All", "Subtotal (1 items) : RM30", "Total: RM 30", and "Checkout".

Backend

1. Login page

The wireframe shows a web browser window titled "LiveTee | Home". The address bar contains "http://livetee.com/home". The main content area is divided into two sections. On the left is a large empty space with a close button in the top-left corner. On the right is the "LiveTee Admin Panel" with a "SIGN IN" heading. It features two input fields labeled "Email" and "Password", and a "Log In" button at the bottom.

2. Dashboard page

The wireframe shows a web browser window titled "LiveTee | Home". The address bar contains "http://livetee.com/home". The main content area has a header "Dashboard" with close and minimize buttons. On the left is a sidebar menu with the following items:

- Dashboard
- Clothing
 - Add
 - Edit
- Stock
 - Add
 - View
- Order
 - Manage
 - History
- Sales Report
- Staff
 - Add
 - Edit

3. Clothing – Add page

The screenshot shows a web browser window titled "LiveTee | Home" with the URL "http://livetee.com/home". The main content area is titled "Clothing - Add". On the left, there is a sidebar with navigation links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main form contains fields for Item Name (text input), Price (text input with "RM" prefix), Description (text input), Available Size (checkboxes for XS, S, M, L), Category (dropdown menu set to "T-Shirts"), Image (input field with "Upload Image" placeholder and a file icon), Tag (dropdown menu set to "Sales"), Status (checkboxes for Available, Not Available), and a "Submit" button.

4. Clothing – Edit page

The screenshot shows a web browser window titled "LiveTee | Home" with the URL "http://livetee.com/home". The main content area is titled "Clothing - Edit". On the left, there is a sidebar with a single link. The main form has two sections: one for filtering with "Category" and "Status" dropdown menus, and another for displaying a grid of clothing items. The grid has columns: Clothing Name, Category, Size Available, Status, and Action. The rows represent multiple clothing items.

5. Clothing – Edit_Edit page

The screenshot shows the 'Clothing - Edit' page. On the left is a sidebar with links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main area has a back button and fields for Item Name (text input), Price (text input with 'RM' prefix), Description (text input), Available Size (checkboxes for XS, S, M, L), Category (dropdown menu set to 'T-Shirts'), Image (input field with 'Upload Image.' placeholder and a file icon), Tag (dropdown menu set to 'Sales'), and Status (checkboxes for Available and Not Available). A 'Submit' button is at the bottom.

6. Stock – Add page

The screenshot shows the 'Stock - Add' page. The sidebar includes links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main area features a search bar with 'Category' and 'Status' dropdowns, a 'Search' button, and a table with columns: ID, Clothing Name, Category, Size Available, Status, and Action. The table rows are currently empty.

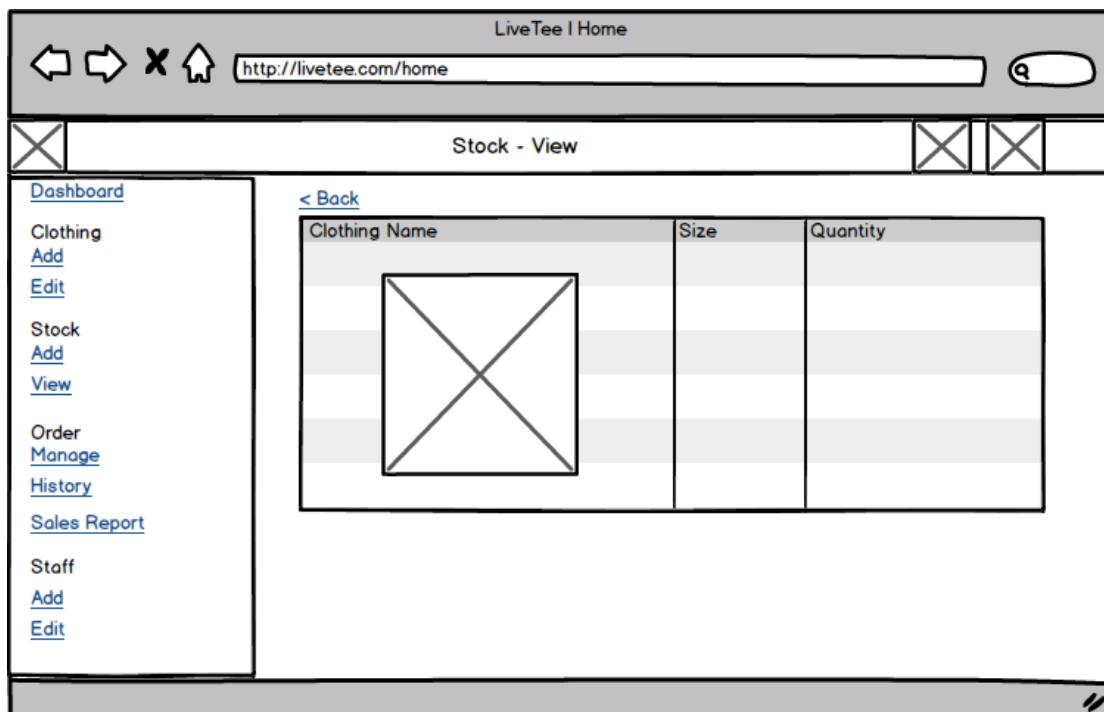
7. Stock – Add_Add page

The screenshot shows a web browser window titled "LiveTee | Home" with the URL "http://livetee.com/home". The main content area is titled "Stock - Add". On the left, there is a sidebar with navigation links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main form contains fields for Item Name ("Mickey Camera - Black"), Size ("M"), and Quantity ("2"). A large "Add Stock" button is at the bottom, and a "[< Back](#)" link is to its right.

8. Stock – View page

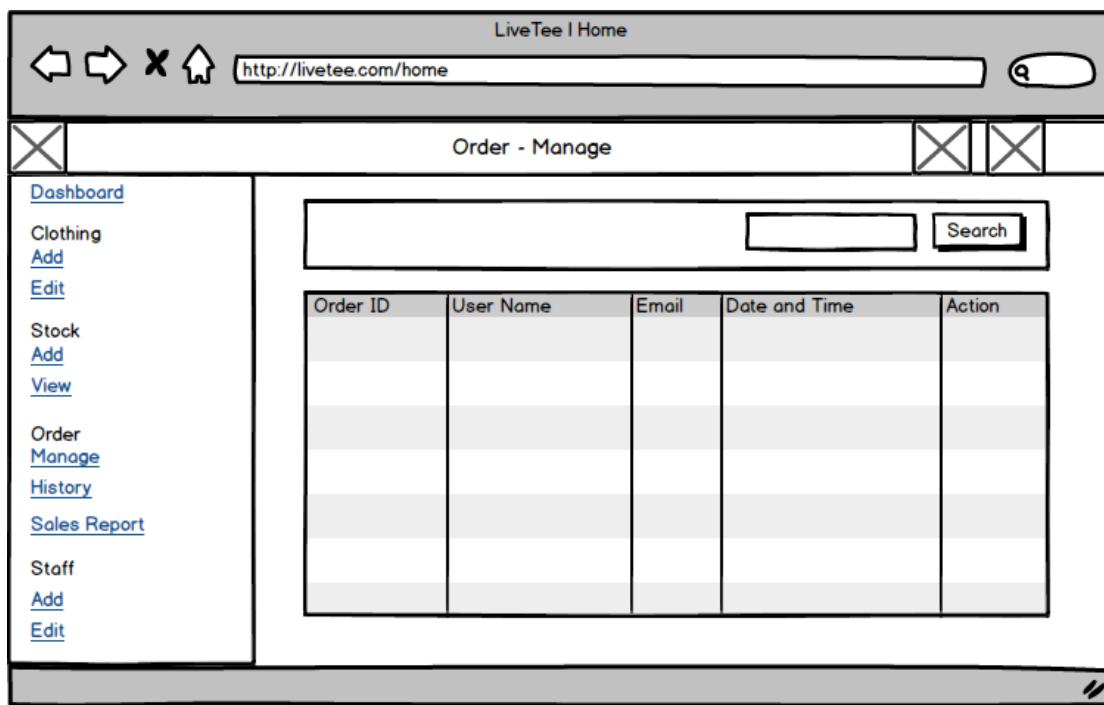
The screenshot shows a web browser window titled "LiveTee | Home" with the URL "http://livetee.com/home". The main content area is titled "Stock - View". The sidebar on the left includes the same navigation links as the previous page. The main area features search filters for Category (ComboBox) and Status (ComboBox), followed by a "Search" button. Below these is a table with columns: ID, Clothing Name, Category, Size Available, Status, Total Stock, and Action. The table rows are currently empty.

9. Stock – View_View page



The wireframe shows a web browser window for 'LiveTee | Home' at 'http://livetee.com/home'. The title bar says 'Stock - View'. The left sidebar has links for Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main content area has a 'Back' link and a table with columns: Clothing Name, Size, and Quantity. A large 'X' is drawn over the first row of the table.

10. Order Manage page



The wireframe shows a web browser window for 'LiveTee | Home' at 'http://livetee.com/home'. The title bar says 'Order - Manage'. The left sidebar has links for Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main content area has a search bar with a 'Search' button and a table with columns: Order ID, User Name, Email, Date and Time, and Action.

11. Order Manage_Manage page

LiveTee | Home <http://livetee.com/home>

Order - Manage

Dashboard	Order ID	#41
Clothing	Username	Jeslyn Ng
Add	Email	jeslyn_ng11@hotmail.com
Edit	Address	98-11-18, Jalan Bukit, 11700 Penang
Stock	Order Date & Time	2019-04-07 03:52PM
Add		
View		
Order		
Manage		
History		
Sales Report		
Staff	Tracking Number	<input type="text"/>
Add		
Edit		<input type="button" value="Confirm Order"/>

12. Order History page

LiveTee | Home <http://livetee.com/home>

Order - History

Dashboard	<input type="text"/>	<input type="button" value="Search"/>
Clothing		
Add		
Edit		
Stock		
Add		
View		
Order		
Manage		
History		
Sales Report		
Staff		
Add		
Edit		

13. Order – History_View page

LiveTee | Home <http://livetee.com/home>

Order - History

Item ID	Item Name	Size	Quantity	Price (Total)
---------	-----------	------	----------	---------------

Username: Jeslyn Ng
Email: jeslyn_ng11@hotmail.com
Staff in Charge: Jes Jes (2)
Order Confirmed on: 2019-04-07 03:52PM
Order Date & Time: 2019-04-07 03:52PM

[Back](#)

[Dashboard](#)
[Clothing](#)
[Add](#)
[Edit](#)
[Stock](#)
[Add](#)
[View](#)
[Order](#)
[Manage](#)
[History](#)
[Sales Report](#)
[Staff](#)
[Add](#)
[Edit](#)

14. Sales Report page

LiveTee | Home <http://livetee.com/home>

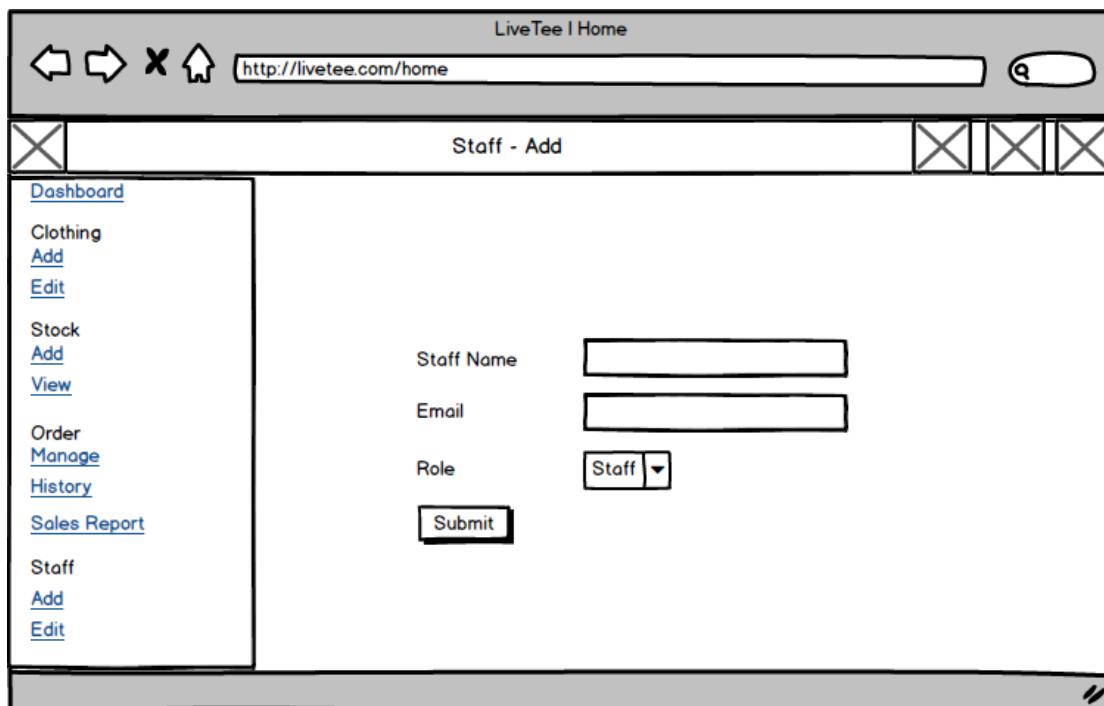
Sales

Period: Graph Type: Save As Image



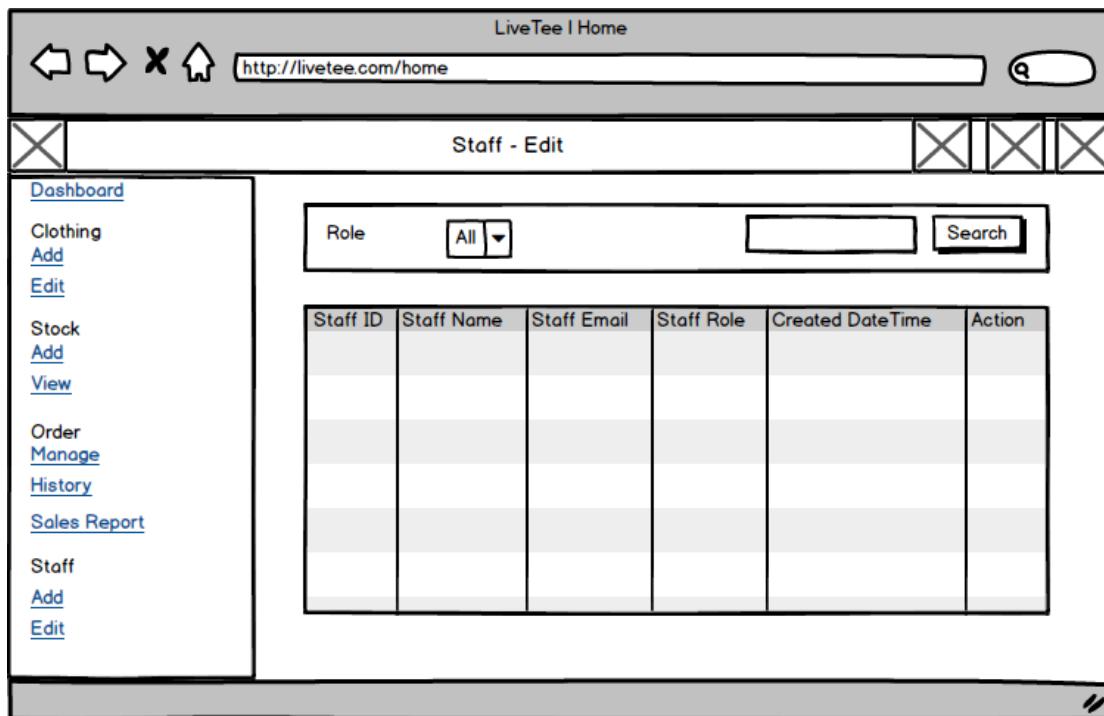
[Dashboard](#)
[Clothing](#)
[Add](#)
[Edit](#)
[Stock](#)
[Add](#)
[View](#)
[Order](#)
[Manage](#)
[History](#)
[Sales Report](#)
[Staff](#)
[Add](#)
[Edit](#)

15. Staff – Add page



The screenshot shows a web browser window for 'LiveTee | Home' at the URL <http://livetee.com/home>. The title bar says 'Staff - Add'. On the left is a sidebar with links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main area has fields for Staff Name (text input), Email (text input), Role (dropdown menu set to 'Staff'), and a 'Submit' button.

16. Staff – Edit page



The screenshot shows a web browser window for 'LiveTee | Home' at the URL <http://livetee.com/home>. The title bar says 'Staff - Edit'. On the left is a sidebar with links: Dashboard, Clothing (Add, Edit), Stock (Add, View), Order (Manage, History), Sales Report, Staff (Add, Edit). The main area has a 'Role' dropdown set to 'All', a search bar, and a table with columns: Staff ID, Staff Name, Staff Email, Staff Role, Created DateTime, Action. The table rows are shaded grey.

17. My Account – Change Password

The screenshot shows a web browser window for 'LiveTee | Home' at <http://livetee.com/home>. The main content area is titled 'Profile'. On the left, there's a sidebar with 'Dashboard' and links for 'Clothing', 'Stock', 'Order', 'Sales Report', and 'Staff'. The main area displays user information: ID (2), Name (Jes Jes), Email (jeslyn_ng11@hotmail.com), Role (1), and Created On (2019-03-07 11:03PM). Below this are fields for 'Current Password', 'New Password', and 'Confirm New Password', each with an associated input box. A 'Confirm' button is located below the password fields.

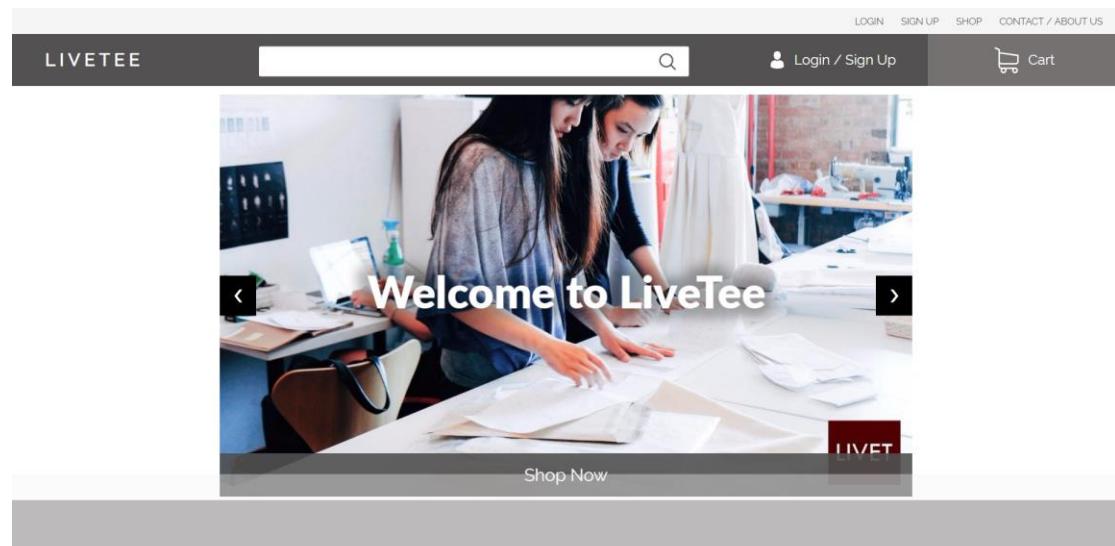
18. First Login – Change Password page

The screenshot shows a web browser window for 'LiveTee | Home' at <http://livetee.com/home>. The main content area is titled 'First Login - Change Password'. It contains three input fields: 'Current Password', 'New Password', and 'Confirm New Password', each with an associated input box. A 'Confirm' button is located below the password fields.

vi. Interface Design (Actual System)

Frontend

1. Home page



01

Easy Orders & Pick Ups

Clear lines and reduce waiting time with easy orders and allocating order slots to your customers for seamless picks ups when their orders are done.

[SHOP NOW](#)

A graphic featuring a delivery person in a blue uniform holding a clipboard and several cardboard boxes. To the left of the delivery person is a black truck icon with the word "FREE" written on it.

02

High Quality & Printing

Clear lines and reduce waiting time with easy orders and allocating order slots to your customers for seamless picks ups when their orders are done.

[SHOP NOW](#)

A graphic showing a large industrial printer printing a design onto a white t-shirt. To the right of the printer is a close-up inset showing a single ink cartridge with a label.

2. Shop page

The screenshot shows the LiveTee shop page. At the top, there's a navigation bar with links for LOGIN, SIGN UP, SHOP, and CONTACT / ABOUT US. Below the navigation is a search bar and a user login/sign up button. A cart icon is also present. On the left, there's a sidebar with categories like Collection, Sales New, and Clothing, with sub-options for Dresses, Tops, T-Shirts, Pants, Shorts, and Jeans. The main content area displays a grid of t-shirts. The first row contains four t-shirts: Mickey Camera - Black (RM 16.00), Spiderman - Black (RM 15.00), Super Heroes (RM 16.00), and Tsum Tsum - Winnie White (RM 16.00). The second row contains three t-shirts: a dark blue t-shirt, a yellow t-shirt, and a white t-shirt.

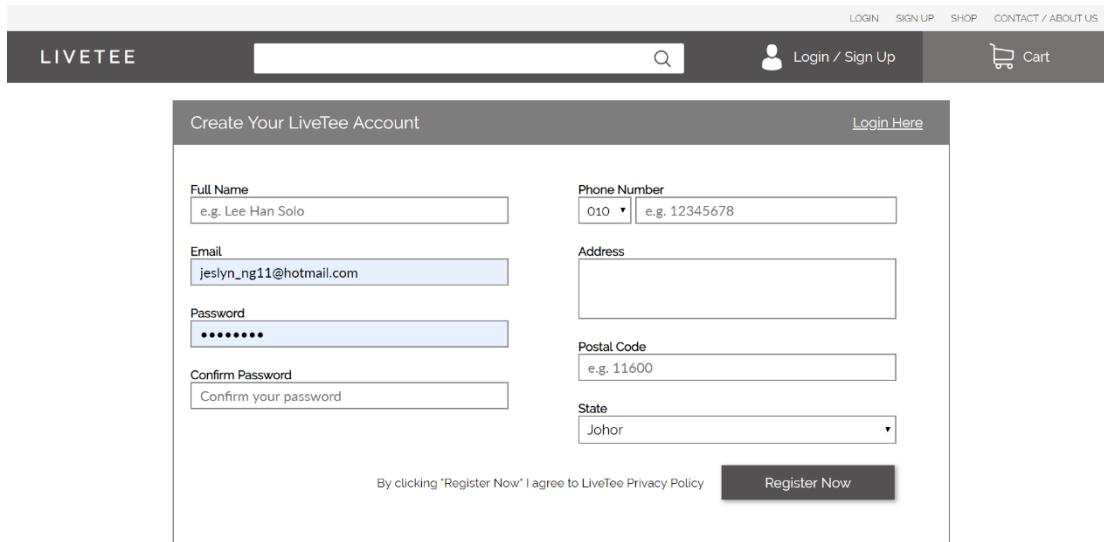
3. Product page

The screenshot shows the product page for a "BAYMAX - BLUE" t-shirt. The product image is a blue t-shirt featuring a white Baymax face on the front and a small red logo on the chest. To the right of the image, the product name "BAYMAX - BLUE" is displayed, along with the price "RM 25.00". Below the price are dropdown menus for "Size" (set to XS) and "Quantity" (set to 1, with a note that 10 pieces are available). A "ADD TO CART" button is located at the bottom of this section. At the bottom of the page, there are tabs for "DETAILS" and "REVIEWS", and a note that the item is made of "92% Cotton, 8% elastane".

4. Login page

The screenshot shows the LiveTee login page. At the top, there's a navigation bar with links for LOGIN, SIGN UP, SHOP, and CONTACT / ABOUT US. Below the navigation is a search bar and a user login/sign up button. A cart icon is also present. The main content area has a message "Welcome to LiveTee! Please login." and two input fields: "Email" (containing "jeslyn_ng11@hotmail.com") and "Password" (containing a masked password). Below these fields is a "Login" button. At the bottom, there's a note "Not a member? [Register Here](#)".

5. Register page

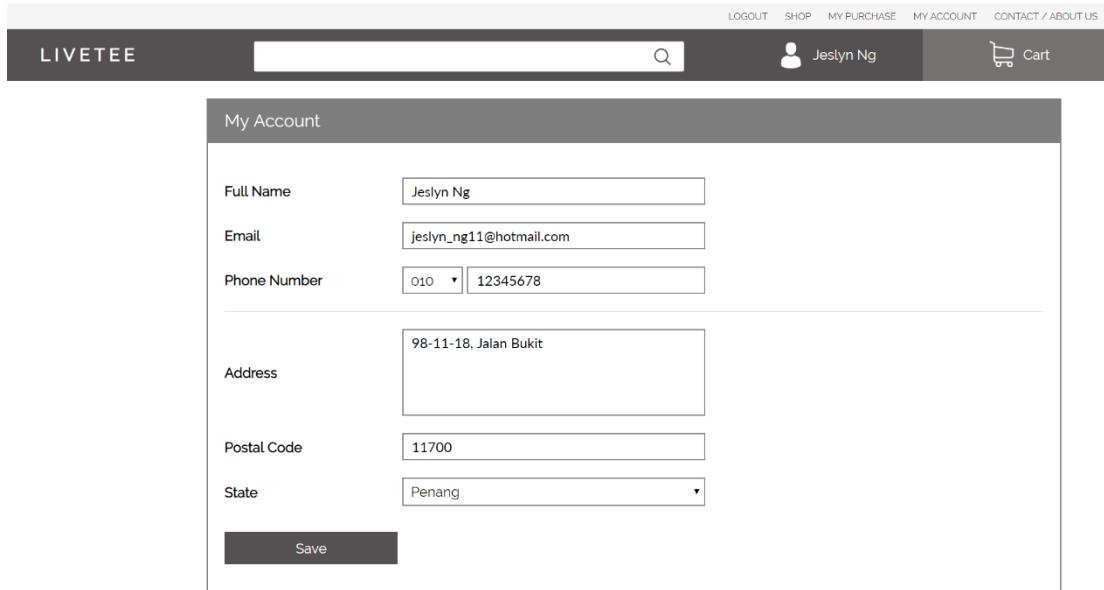


The screenshot shows the 'Create Your LiveTee Account' registration form. At the top right, there is a 'Login Here' link. The form fields include:

- Full Name: e.g. Lee Han Solo
- Email: jeslyn_ng11@hotmail.com
- Password: [REDACTED]
- Confirm Password: Confirm your password
- Phone Number: 010 e.g. 12345678
- Address: [REDACTED]
- Postal Code: e.g. 11600
- State: Johor

At the bottom left, there is a note: "By clicking 'Register Now' I agree to LiveTee Privacy Policy". On the right, there is a "Register Now" button.

6. Profile page



The screenshot shows the 'My Account' profile editing page. At the top right, it displays the user's name: Jeslyn Ng. The form fields include:

- Full Name: Jeslyn Ng
- Email: jeslyn_ng11@hotmail.com
- Phone Number: 010 12345678
- Address: 98-11-18, Jalan Bukit
- Postal Code: 11700
- State: Penang

At the bottom left, there is a "Save" button.

7. Profile – Change Password

The screenshot shows the Livetee website's user profile section. At the top, there is a navigation bar with links for LOGOUT, SHOP, MY PURCHASE, MY ACCOUNT, and CONTACT / ABOUT US. Below the navigation is a header bar with the brand name 'LIVETEE' on the left, a search icon in the center, and a user profile icon 'Jestlyn Ng' on the right. A shopping cart icon with the number 'Cart' is also present. The main content area is titled 'Change Password'. It contains three input fields: 'Current Password' (placeholder: 'Current Password'), 'New Password' (placeholder: 'At least 8 characters'), and 'Confirm New Password' (placeholder: 'Confirm your password'). A 'Confirm' button is located at the bottom of the form.

8. My Purchase page

The screenshot shows the 'My Purchase' page on the Livetee website. The page displays two recent orders. Order #49, placed on 2019-04-09 10:53PM, includes a product image of a Spiderman - Black t-shirt, quantity 1, RM15 price, size S, and status 'Delivering'. There is a 'Confirm Receive' button. Order #48, placed on 2019-04-09 07:53PM, includes a product image of a Spiderman - Black t-shirt, quantity 2, RM30 price, size S, and status 'Processing'. The page also features a sidebar with links for My Account, Change Password, My Purchase, and My Reviews.

9. Write Review page

The screenshot shows the 'Write Review' page on the Livetee website. It starts with a summary of Order #26: Placed on 2019-03-27 11:47AM and Confirmed on 2019-03-28 11:27PM. It shows a product image of an OK Find Whatever T-Shirt, quantity 3, XXL size, and RM45 price. Below this, there is a 'Review' text area and a 'Rating' section with five stars. At the bottom are 'Submit' and 'Back' buttons. The sidebar on the left includes links for My Account, Change Password, My Purchase, and My Reviews.

10. View Review page

LIVETEE

Logout Shop My Purchase My Account Contact / About Us

My Account Change Password My Purchase My Reviews

Order #14
Placed on 2019-03-13 08:50PM
Confirmed on 2019-03-13 08:50PM

Tsum Tsum - Winnie White Qty: 2 Qty: S RM32

Review: Wow. Good product.
Nice quality.

Rating: ★★★★★

< Back

11. My Review page

LIVETEE

Logout Shop My Purchase My Account Contact / About Us

My Account Change Password My Purchase My Reviews

Rating	Review	Item Name	Submitted Date Time
★★★★★	Testing 123 123 Testing	OK Find Whatever T-Shirt	2019-04-09 02:53AM
★★★★★	Nice quality. Nice printing.	Mickey Camera - Black	2019-04-05 08:36AM
★★★★★	1234 qwer	Mickey Camera - Black	2019-04-02 03:19PM
★★★★★	QWERTY123123	OK Find Whatever T-Shirt	2019-03-26 10:11AM
★★★★★	99999	Super Heroes	2019-03-19 09:12AM
★★★★★	123456	Super Heroes	2019-03-19 09:11AM

12. Cart page

LIVETEE

Logout Shop My Purchase My Account Contact / About Us

Cart

Item	Size	Price (Each)	Quantity	Total
Super Heroes	XS	RM16.00	1	RM16

Select All Subtotal (1 items): RM16 Total: RM16 CHECKOUT

Backend

1. Login page

The image consists of two parts. On the left, there is a photograph of two women in a workspace; one is at a desk with a laptop, and they are both looking at a document on the table. On the right is a screenshot of the "LiveTee Admin Panel" login interface. It features a blue header with the text "LiveTee Admin Panel" and "SIGN IN". Below this is a form with fields for "Email" containing "jeslyn_ng11@hotmail.com" and "Password" containing "*****". A blue "Log In" button is at the bottom.

2. Dashboard page

This is a screenshot of the "LiveTee Admin Panel" dashboard. The left sidebar has a dark background with white text and icons. It includes links for "Dashboard", "Clothing", "Stock", "Order", "Sales Report", and "Staff", each preceded by a plus sign. At the bottom of the sidebar is a red "Logout" button. The main area has a light gray background and contains four colored boxes representing different modules: a dark gray box for "Orders", a cyan box for "Items", an orange box for "Sales Report", and a dark blue box for "Staff". The top navigation bar is dark blue with the "LIVET" logo on the left, a "Dashboard" title in the center, and a bell and user icon on the right.

3. Clothing – Add page

This is a screenshot of the "Clothing - Add" page. The left sidebar is identical to the dashboard, with a dark background and white text. The main area has a light gray background and contains a form for adding a new item. The form fields include "Item Name" (text input), "Price" (text input with "RM 0.00"), "Description" (text area), "Available Size" (checkboxes for XS, S, M, L, XL, XXL), "Category" (dropdown menu set to "Dresses"), "Image" (file input with placeholder "Choose File No file chosen"), "Tag" (dropdown menu set to "Sales"), and "Status" (checkboxes for "Available" and "Not Available"). A blue "Submit" button is at the bottom of the form.

4. Clothing – Edit page

The screenshot shows the 'Clothing - Edit' page. On the left is a dark sidebar with a red 'LIVET' logo at the top. Below it are links: Dashboard, Clothing (+), Stock (+), Order (+), Sales Report, Staff (+), and Logout. The main area has a header 'Clothing - Edit' with a search bar. Below is a table with columns: Clothing ID, Clothing Name, Category, Size Available, Status, and Action. The table contains 8 rows of clothing items.

Clothing ID	Clothing Name	Category	Size Available	Status	Action
43	Mickey Camera - Black	Dresses	XS,S,M	Available	
44	Spiderman - Black	Tops	S,M,L,XL	Available	
45	Super Heroes	T-Shirts	XS,S,M,L,XL	Available	
48	Tsum Tsum - Winnie White	T-Shirts	S,M,L,XL	Available	
49	OK Find Whatever T-Shirt	T-Shirts	XS,S,M,L,XL,XXL	Available	
50	Dinosaur - Yellow	T-Shirts	XS,S,M,L	Available	
51	Donald Duck - White	T-Shirts	XS,S,M,L,XL,XXL	Available	
52	Baymax - Blue	T-Shirts	XS,S,M,L,XL,XXL	Available	

5. Clothing – Edit_Edit page

The screenshot shows the 'Clothing - Edit' page with a 'Back' link. The sidebar and table from the previous screenshot are visible. The main area has a form for editing an item. Fields include: Item Name (Mickey Camera - Black), Price (RM 16.00), Description (Mickey Camera - Black), Available Size (XS, S, M, L, XL, XXL), Category (Dresses), Image (Choose File), Tag (Sales), and Status (Available). There is also a note: '* Uploading a new image will replace current image.' and a preview image of a t-shirt. At the bottom are 'Update' and 'Cancel' buttons.

6. Stock – Add page

The screenshot shows the 'Stock - Add' page. The sidebar and table from the previous screenshots are visible. The main area has a header 'Stock - Add' with a search bar. Below is a table with columns: Clothing ID, Clothing Name, Category, Size Available, Status, and Action. The table contains 8 rows of clothing items. Each row has an 'Add Stock' button in the Action column.

Clothing ID	Clothing Name	Category	Size Available	Status	Action
43	Mickey Camera - Black	Dresses	XS,S,M	Available	Add Stock
44	Spiderman - Black	Tops	S,M,L,XL	Available	Add Stock
45	Super Heroes	T-Shirts	XS,S,M,L,XL	Available	Add Stock
48	Tsum Tsum - Winnie White	T-Shirts	S,M,L,XL	Available	Add Stock
49	OK Find Whatever T-Shirt	T-Shirts	XS,S,M,L,XL,XXL	Available	Add Stock
50	Dinosaur - Yellow	T-Shirts	XS,S,M,L	Available	Add Stock
51	Donald Duck - White	T-Shirts	XS,S,M,L,XL,XXL	Available	Add Stock
52	Baymax - Blue	T-Shirts	XS,S,M,L,XL,XXL	Available	Add Stock

7. Stock – Add_Add page

LIVET

Stock - Add

[Stock - Add](#) [Back](#)

Item Name	Mickey Camera - Black
Size	XS
Quantity	1

Add Stock

Logout

8. Stock – View page

LIVET

Stock - View

[Stock - View](#)

Category	All
Status	All

Search

Clothing ID	Clothing Name	Category	Size Available	Status	Total Stock	Action
43	Mickey Camera - Black	Dresses	X.S.S.M	Available	38	View Stock
44	Spiderman - Black	Tops	S.M.L.XL	Available	13	View Stock
45	Super Heroes	T-Shirts	X.S.S.M.L.XL	Available	3	View Stock
48	Tsum Tsum - Winnie White	T-Shirts	S.M.L.XL	Available	0	View Stock
49	OK Find Whatevver T-Shirt	T-Shirts	X.S.S.M.L.XL.XXL	Available	20	View Stock
50	Dinosaur - Yellow	T-Shirts	X.S.S.M.L	Available	0	View Stock
51	Donald Duck - White	T-Shirts	X.S.S.M.L.XL.XXL	Available	0	View Stock
52	Baymax - Blue	T-Shirts	X.S.S.M.L.XL.XXL	Available	10	View Stock

1 < 1 >

Logout

9. Stock View _View page

LIVET

Stock - View

[Stock - View](#) [Back](#)

Clothing Name	Size	Quantity
Mickey Camera - Black	XS	23
	S	5
	M	10

Logout

10. Order Manage page

The screenshot shows the 'Order - Manage' page. On the left is a dark sidebar with a red header 'LIVET'. The sidebar contains links: 'Dashboard', 'Clothing +', 'Stock +', 'Order +', 'Sales Report', 'Staff +', and 'Logout'. The main area has a blue header 'Order - Manage' with a search bar and user icons. Below is a table titled 'Order - Manage' with columns: Order ID, Username, Email, Date & Time, and Action. The table lists 10 orders from Jeslyn Ng. At the bottom are navigation buttons: 1, <, 1, >, and 2.

Order ID	Username	Email	Date & Time	Action
#48	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 07:53PM	Manage Order
#47	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 07:14PM	Manage Order
#46	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 04:11PM	Manage Order
#45	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 04:06PM	Manage Order
#44	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 04:05PM	Manage Order
#43	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 02:48PM	Manage Order
#42	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 10:06AM	Manage Order
#41	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-07 03:52PM	Manage Order

11. Order Manage_Manage page

The screenshot shows the 'Order - Manage' page with a detailed view of order #48. The sidebar and header are identical to the previous page. The main area shows order details: Order ID (#48), Username (Jeslyn Ng), Email (jeslyn_ng11@hotmail.com), Address (98-11-18, Jalan Bukit, 11700 Penang), Order Date & Time (2019-04-09 07:53PM), and a table of item details. The table has columns: Item ID, Stock Available, Item Name, Size, and Quantity. It shows 1 item: Spiderman - Black, Size S, Quantity 2. Below is a tracking number input field and a 'Confirm Order' button.

Item ID	Stock Available	Item Name	Size	Quantity
44	13	Spiderman - Black	S	2

12. Order History page

The screenshot shows the 'Order - History' page. The sidebar and header are identical to the previous pages. The main area has a blue header 'Order - History' with a search bar and user icons. Below is a table titled 'Order - History' with columns: Order ID, Username, Email, Order Confirmed On, Tracking Number, Order Status, and Action. The table lists 13 past orders from Jeslyn Ng. At the bottom are navigation buttons: 1, <, 1, >, and 2.

Order ID	Username	Email	Order Confirmed On	Tracking Number	Order Status	Action
49	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-10 03:22PM	MY890128390935PS	Delivering	View Order
39	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-05 08:26AM	MY890128390166PS	Received	View Order
37	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-05 08:27AM	MY890128390167PS	Received	View Order
27	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-02 03:18PM	MY8988888888PS	Received	View Order
26	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-28 11:27PM	MY890128390789PS	Received	View Order
21	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY890128390117PS	Delivering	View Order
20	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY890128327213PS	Delivering	View Order
18	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY89012213067PS	Delivering	View Order
17	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-19 09:09AM	MY890128390999PS	Received	View Order
16	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-14 10:38PM	MY890128390888PS	Received	View Order

13. Order – History_View page

LIVET Order - History [Back](#)

Username: Jeslyn Ng
Email: jeslyn_ng11@hotmail.com
Staff in Charge: Jes Jes (2)
Order Confirmed on: 2019-03-19 09:09AM

Order Date & Time: 2019-03-19 09:09AM

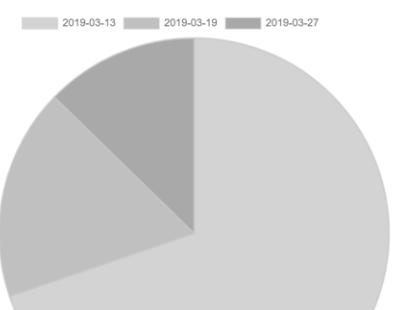
Item ID	Item Name	Size	Quantity	Price (Total)
45	Super Heroes	XS	1	RM16
45	Super Heroes	XS	1	RM16
49	OK Find Whateve T-Shirt	XL	2	RM30
				RM62

Logout

14. Sales Report page

LIVET Sales Report

Period: Last Month
Graph Type: Pie
[Save as Image](#)



2019-03-13 2019-03-19 2019-03-27

Logout

15. Staff – Add page

LIVET Staff - Add

Staff - Add

Full Name:
Email:
Role:

[Submit](#)

Logout

16. Staff – Edit page

The screenshot shows the 'Staff - View' page. On the left is a dark sidebar with a 'Logout' button at the bottom. The main area has a header 'Staff - View' with a search bar and filter dropdown. A table lists staff details: Staff ID, Staff Name, Staff Email, Staff Role, Created DateTime, and Action (edit/delete). Two entries are shown: Staff ID 1 (Wayne) and Staff ID 2 (Jes Jes).

Staff ID	Staff Name	Staff Email	Staff Role	Created DateTime	Action
1	Wayne	wayne.ng6010@gmail.com	Admin	2019-02-16 05:17PM	
2	Jes Jes	jeslyn_ng11@hotmail.com	Admin	2019-03-07 11:03PM	

17. My Account – Change Password

The screenshot shows the 'My Account' page. The sidebar includes a 'Logout' button. The main area displays account information: ID (2), Name (Jes Jes), Email (jeslyn_ng11@hotmail.com), Role (1), and Created On (2019-03-07 11:03PM). Below this is a 'Change Password' section with fields for Current Password, New Password, and Confirm New Password, along with a 'Confirm' button.

18. First Login – Change Password page

The screenshot shows the 'First Login - Change Password' page. The sidebar includes a 'Logout' button. The main area has a form for changing the password, with fields for Old Password, New Password, and Confirm New Password, and a 'Save' button.

Literature Review

Topic 1: The Effect of Perceived Risk on Online Shopping in Jordan

Online shopping may have perceived risks, such as consumers are not able to ensure the quality of the product directly and the security of payment through online (Salo and Karjaluoto, 2007; Zhou et al., 2008). Consumers have to rely and trust on the product information and image shown online to examine the quality of product (Jarvenpaa and Tractinsky, 1999). Time risks during purchasing online including slow delivery time and difficulty on placing orders (Forsythe et al., 2006). Consumers have to worry that the goods will be damaged during delivery due to improper packaging or handling of goods (Claudia, 2012). Consumers are concern about the security risk of using credits cards and revealing personal information online (Pallab, 1996). Consumers will avoid websites that require them to provide personal information for registration (Kayworth and Whitten, 2010).

Topic 2: Literature derived reference models for the adoption of online shopping

Perceived risk on online shopping, such as credit cards problem and receiving wrong items, will negatively affect consumers' shopping intention (A. Bhatnagar, S. Misra, H.R. Rao, 2000). Website accessibility will influence the shopping intention of consumers (H. Li, C. Kuo, M.G. Russell, 1999). Trust issue also became a major problem in adoption of online shopping (B. Friedman, P.H. Kahn, D.C. Howe ,2000). The higher of trustfulness, the higher the shopping intention of consumers (A.M. Chircu, G.B. Davis, R.J. Kauffman, 2000). The knowledge of using computer and online shopping of consumers are positively related to online shopping adoption (C.V. Slyke, 2002). Hence, consumers with higher understanding in technology and its operation process will lead to higher rate of online shopping. Online selling system that managed and operated by acknowledged companies will have higher competitive advantage over other companies (K. McKinsey, 2001).

Topic 3: What Makes Consumers Buy from Internet? A Longitudinal Study of Online Shopping

Discounts, coupons or other offers should be given to consumers in order to attract them to shop online (Gehrke and Turban, 1999). Customers' confidence on the online shopping system can be increased by using keywords such as "Secure Server" (Gehrke and Turban, 1999). Checkout process should not be too complicated as customers will get frustrated (Lohse and Spiller, 1998). Guarantees and warranties should be offered to customers so that the customer service can be improved (Dholakia and Rego, 1998). In order to reach higher sales, Frequently Asked Question (FAQ) about the company and its products should be implemented (Lohse and Spiller, 1988). Showing certain benefit of a product is able to increase the quality of content on online shopping system (Dholakia and Rego, 1998).

Topic 4: An empirical analysis of online shopping adoption in Beijing, China

A website with poor design makes consumers not to shop online (Shergill and Chen, 2005). Security and privacy features are able to attract consumers to shop online (Suki, 2007). Poor service quality in e-commerce will negatively affect the decision of

consumers to purchase online (Vijayasarathy and Jones, 2000). A good price is able to attract consumers to purchase online (Ahuja et al., 2003). The main reason of why consumers shop online is because the wide variety of products (Szymanski and Hise, 2000). Lack of product guarantee will prevent consumer to buy goods online, especially for product with high price (Koyuncu and Bhattacharya, 2004). Koyuncu and Bhattacharya (2004) also stated that consumers would lower the rate of purchasing online if they do not receive the item within guaranteed time.

Topic 5: Factors influencing consumers' online shopping in China

Most of the consumers that shop online are male as it involve using computer (Dholakis and Chiang, 2003). The higher the education level of consumers, the higher their exposure to internet technology as they have more confidence (Hui and Wan, 2007). Consumers that shop online tend to have higher income compared to traditional store shoppers (Mahmood et al., 2004). The number of children of married Chinese can be used to predict their shopping intention on clothing (Kim and Kim, 2004). The consumers will only choose to shop online on a channel if they are confident with that channel and the perceived risk is low (Black et al., 2002). As the internet availability is getting higher and higher nowadays, more Chinese consumers tend to use the internet for information, communication and entertainment purpose (Gong et al., 2013).

System Development and Implementation

i. Functional Requirement

Module Name: User Account Management

- Customer is able to register an new account
- Able to edit profile information
- Admin is able to register an new account for admin or staff
- Able to view profile

Module Name: Products (Cloths)

- Able to view products with search filters
- Able to add products
- Able to view existing products
- Able to restock products
- Able to view available stocks
- Able to delete products
- Able to edit products information

Module Name: Purchase

- Able to add item to cart
- Able to view cart items
- Able to remove item from cart
- Able to edit quantity or size in cart
- Able to make payment
- Able to view purchase history

- Admin is able to manage orders from customers
- Admin is able to view sales history

Module Name: Report

- Admin is able to view sales using graphs
- Admin is able to select type of graphs
- Admin is able to select the range of sales report

Module Name: Review and rating

- User is able to provide review and rating
- Visitors are able to view review and rating

ii. Conversion Plan

Phased Conversion

Phased conversion means replacing the current system with new one in phases until the current system is fully replaced by new system. New system is broken down by smaller modules and replace corresponding modules in current system. The reason of choosing this conversion plan is that it allows the users to get familiar with the system gradually. Users do not need to worry about using the complete new system without any prior knowledge as they can be trained stage by stage. By doing this, mistakes made by user can be decreased as well. Besides, phased conversion allows developers to detect and resolve the errors and bugs without a lot of down time. The new system will be tested modules by modules, which mean resolution of an error is focused on a module and hence time needed for debugging will be shorten. Although using phased conversion will require much of time for complete implementation of new system, but the risk of getting system catastrophe is able to decrease.

Program Listing

Modules	Pages Created
1.0 User Account Management	userLogin.php userLogout.php userRegister.php userAccount.php userChangePassword.php adminLogin.php adminStaffAdd.php adminStaffView.php adminAccount.php adminFirstLogin.php
2.0 Products (Cloths)	adminClothingAdd.php adminClothingEdit.php adminClothingEdit_Edit.php adminStockAdd.php adminStockAdd_Add.php adminStockView.php adminStockView_View.php userShop.php userProduct.php
3.0 Purchase	adminOrderHistory.php adminOrderHistory_View.php adminOrderManage.php adminOrderManage_Manage.php userCart.php userPurchase.php checkout.php
4.0 Report	adminSales.php
5.0 Review and rating	userReview.php userViewReview.php userWriteReview.php

System Testing and Maintenance

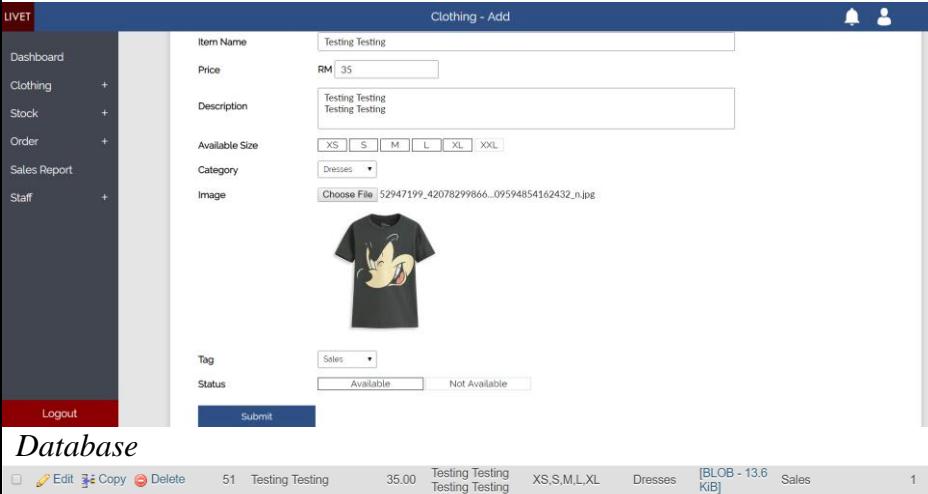
i. Test Plan and Test Case

Test Plan

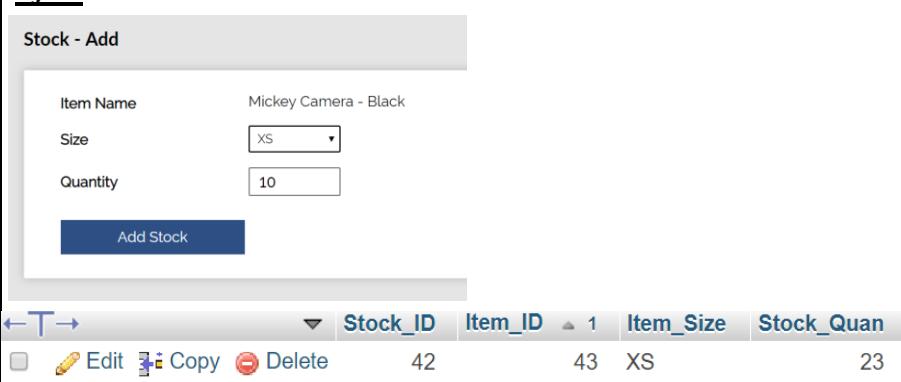
Test Case No.	Description
1.0	To test the Add Clothing Button. Details of new clothing will be saved in database.
2.0	To test the Add Stock Button. New stock amount will be updated in database.
3.0	To test the Search Button for clothing. Clothing name or ID that match with the keyword entered by user will be displayed.
4.0	To test the Delete Button for clothing. Clothing will be deleted from database.
5.0	To test the Save Button for sales report. Sales report will be downloaded to local computer from database.
6.0	To test the Register Now Button on user page. Details entered by new user will be saved in database.
7.0	To test the Checkout Button on cart page. The webpage will be redirected to PayPal page to proceed with payment.
8.0	To test the Confirm Button on change password page. New password will be saved in database.
9.0	To test the Submit Review Button. Reviews and rating submitted by user will be displayed on respective product page.
10.0	To test the Add To Cart Button. Item selected by user along with the size and quantity will be inserted to database.

Test Case

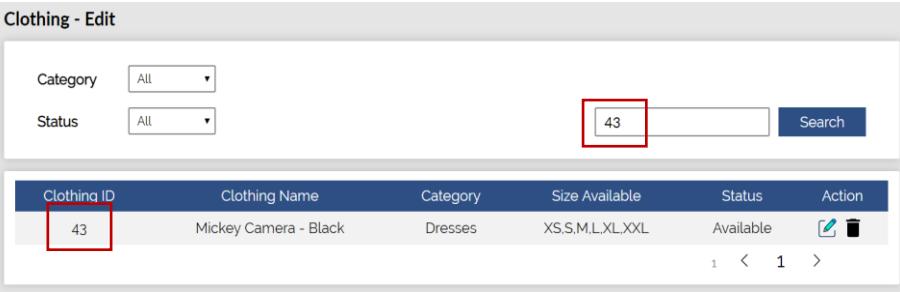
Module Name: Products (Cloths)

Test Case no.	1.0
Test Objective	To test the Add Clothing Button.
Test Data	Add Button
Expected result	Details of new clothing will be saved in database.
Actual result	 <p>The screenshot shows the 'Clothing - Add' form. The left sidebar has 'LIVET' at the top, followed by 'Dashboard', 'Clothing +', 'Stock +', 'Order +', 'Sales Report', and 'Staff +'. At the bottom are 'Logout' and 'Database' buttons. The main area has fields for 'Item Name' (Testing Testing), 'Price' (RM 35), 'Description' (Testing Testing Testing Testing), 'Available Size' (XS, S, M, L, XL, XXL), 'Category' (Dresses), and 'Image' (choose file: 52947199_4207829966_09594854162432_n.jpg). Below the image is a preview of a black t-shirt with a yellow cartoon character. The 'Status' dropdown is set to 'Available'. A 'Submit' button is at the bottom. The status bar at the bottom shows: 51 Testing Testing, 35.00 Testing Testing, XS,S,M,L,XL Dresses [BLOB - 13.6 Kib], Sales 1.</p>
Remark	Successful

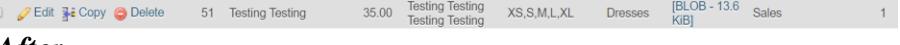
Module Name: Products (Cloths)

Test Case no.	2.0
Test Objective	To test the Add Stock Button.
Test Data	Add Button
Expected result	New stock amount will be updated in database.
Actual result	<p><u>Before</u></p>  <p><u>After</u></p> 
Remark	Successful

Module Name: Products (Cloths)

Test Case no.	3.0
Test Objective	To test the Search Button for clothing.
Test Data	Search Button
Expected result	Clothing name or ID that match with the keyword entered by user will be displayed.
Actual result	 <p>The screenshot shows a search interface for clothing items. At the top, there are filters for Category (All) and Status (All). Below these is a search input field containing the value '43', which is also highlighted with a red box. To the right of the input field is a 'Search' button. The main area displays a table of clothing items. One item in the table has its 'Clothing ID' (43) and 'Category' (Dresses) highlighted with red boxes. The table columns include Clothing ID, Clothing Name, Category, Size Available, Status, and Action. The status for the highlighted item is 'Available'. At the bottom of the table, there are navigation arrows and a page number indicator showing '1 < 1 >'.</p>
Remark	Successful

Module Name: Products (Cloths)

Test Case no.	4.0
Test Objective	To test the Delete Button for clothing.
Test Data	Delete Button
Expected result	Clothing will be deleted from database.
Actual result	<p><u>Before</u></p>  <p>The screenshot shows a list of clothing items. At the top, there are buttons for Edit, Copy, and Delete. Item ID 43, 'Mickey Camera - Black', is highlighted with a red box. The table columns include Item_ID, Item_Name, Item_Price, Item_Descrip, Item_Size, Item_Cat, Item_Image, Item_Tag, and Item_Status. The status for item 43 is 'Available'. At the bottom right, there is a delete icon, which is also highlighted with a red box.</p> <p><u>After</u></p>  <p>The screenshot shows the same list of clothing items after item ID 43 has been deleted. The row for 'Mickey Camera - Black' is missing from the table. The delete icon at the bottom right is highlighted with a red box.</p>
Remark	Successful

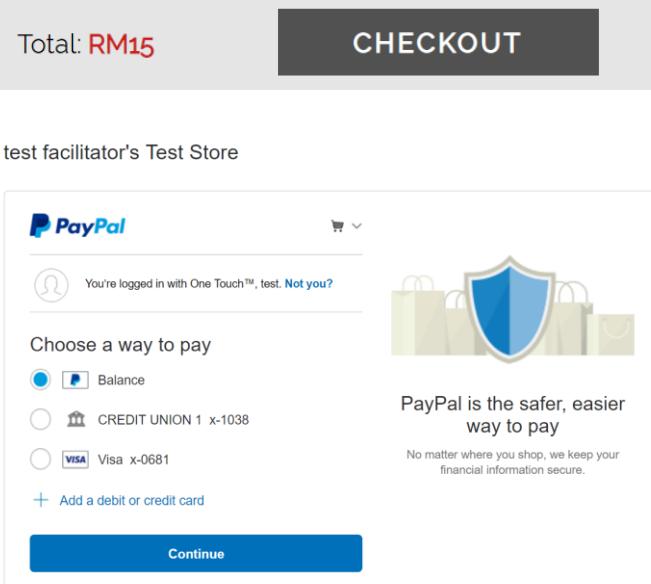
Module Name: Report

Test Case no.	5.0
Test Objective	To test the Save Button for sales report.
Test Data	Download Button
Expected result	Sales report will be downloaded to local computer from database.
Actual result	<p>Period <input type="button" value="This Month ▾"/></p> <p>Graph Type <input type="button" value="Bar ▾"/></p> <p><input type="button" value="Save as Image"/></p> <p>chart_1.jpg</p>
Remark	Successful

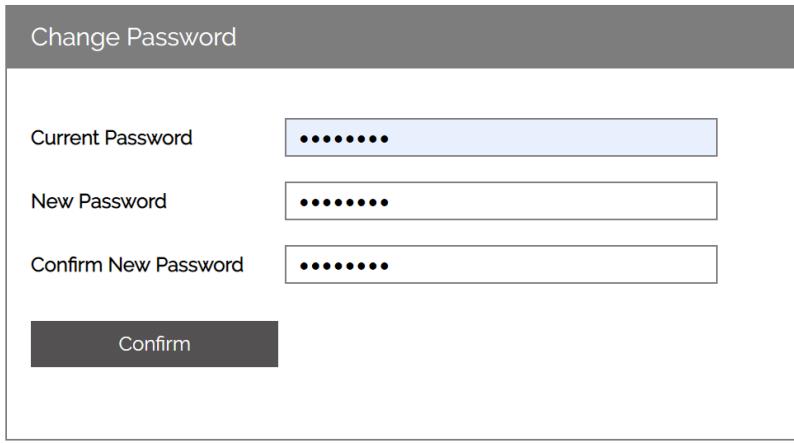
Module Name: User Account Management

Test Case no.	6.0									
Test Objective	To test the Register Now Button on user page.									
Test Data	Register Button									
Expected result	Details entered by new user will be saved in database.									
Actual result	<p>Create Your LiveTee Account Login Here</p> <p>Database</p> <table border="1"> <tr> <td>11</td> <td>Testing Test</td> <td>testing123@hotmail.com</td> <td>\$2y\$10\$HzTa9I</td> <td>01012345678</td> <td>11, Jalan Kumar, Gelugor</td> <td>2019-04-09 02:42:00</td> <td>11700</td> <td>Penang</td> </tr> </table>	11	Testing Test	testing123@hotmail.com	\$2y\$10\$HzTa9I	01012345678	11, Jalan Kumar, Gelugor	2019-04-09 02:42:00	11700	Penang
11	Testing Test	testing123@hotmail.com	\$2y\$10\$HzTa9I	01012345678	11, Jalan Kumar, Gelugor	2019-04-09 02:42:00	11700	Penang		
Remark	Successful									

Module Name: Purchase

Test Case no.	7.0
Test Objective	To test the Checkout Button on cart page.
Test Data	Checkout Button
Expected result	The webpage will be redirected to PayPal page to proceed with payment.
Actual result	<p>Total: RM15</p> <p style="text-align: center;">CHECKOUT</p> 
Remark	Successful

Module Name: User Account Management

Test Case no.	8.0																
Test Objective	To test the Confirm Button on change password page.																
Test Data	Save Button																
Expected result	New password will be saved in database.																
Actual result	 <u>Old Password</u> <table border="1"> <thead> <tr> <th>User_ID</th> <th>User_Name</th> <th>User_Email</th> <th>User_Password</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Ng Yuan Shen</td> <td>wayne.ng6010@gmail.com</td> <td>\$2y\$10\$8xXf.u6Id9.fYu9zzNtTr.kquVnNfa/qTozHoQlfOb3...</td> </tr> </tbody> </table> <u>New Password</u> <table border="1"> <thead> <tr> <th>User_ID</th> <th>User_Name</th> <th>User_Email</th> <th>User_Password</th> </tr> </thead> <tbody> <tr> <td>6</td> <td>Ng Yuan Shen</td> <td>wayne.ng6010@gmail.com</td> <td>\$2y\$10\$Q8g6LHYNVHJvrrc9J.TIEOejJNh4gViNdppRkb1e0jv...</td> </tr> </tbody> </table>	User_ID	User_Name	User_Email	User_Password	6	Ng Yuan Shen	wayne.ng6010@gmail.com	\$2y\$10\$8xXf.u6Id9.fYu9zzNtTr.kquVnNfa/qTozHoQlfOb3...	User_ID	User_Name	User_Email	User_Password	6	Ng Yuan Shen	wayne.ng6010@gmail.com	\$2y\$10\$Q8g6LHYNVHJvrrc9J.TIEOejJNh4gViNdppRkb1e0jv...
User_ID	User_Name	User_Email	User_Password														
6	Ng Yuan Shen	wayne.ng6010@gmail.com	\$2y\$10\$8xXf.u6Id9.fYu9zzNtTr.kquVnNfa/qTozHoQlfOb3...														
User_ID	User_Name	User_Email	User_Password														
6	Ng Yuan Shen	wayne.ng6010@gmail.com	\$2y\$10\$Q8g6LHYNVHJvrrc9J.TIEOejJNh4gViNdppRkb1e0jv...														
Remark	Successful																

Module Name: Review and Rating

Test Case no.	9.0
Test Objective	To test the Submit Review Button.
Test Data	Submit Button
Expected result	Reviews and rating submitted by user will be displayed on respective product page.
Actual result	<p>Write Review</p> <p>Order #37 Placed on 2019-04-04 10:59PM Confirmed on 2019-04-05 08:27AM</p>  <p>OK Find Whatever T-Shirt</p> <p>Review Testing 123 123 Testing</p> <p>Rating ★ ★ ★ ★ ★</p> <p>Submit Back</p> <p> </p> <p> Jeslyn Ng ★★★★★ Testing 123 123 Testing 2019-04-09 02:53AM</p>
Remark	Successful

Module Name: Purchase

Test Case no.	10.0										
Test Objective	To test the Add To Cart Button.										
Test Data	Add Button										
Expected result	Item selected by user along with the size and quantity will be inserted to database.										
Actual result	<p>MICKEY CAMERA - BLACK RM 16.00</p> <p>Size <input type="button" value="M ▾"/></p> <p>Quantity <input type="text" value="3"/> 10 piece available</p> <p>ADD TO CART</p> <p>Cart</p> <table border="1"> <thead> <tr> <th>Item</th> <th>Size</th> <th>Price (Each)</th> <th>Quantity</th> <th>Total</th> </tr> </thead> <tbody> <tr> <td></td> <td>M ▾</td> <td>RM16.00</td> <td><input type="text" value="3"/> Stock: 10</td> <td>RM48</td> </tr> </tbody> </table>	Item	Size	Price (Each)	Quantity	Total		M ▾	RM16.00	<input type="text" value="3"/> Stock: 10	RM48
Item	Size	Price (Each)	Quantity	Total							
	M ▾	RM16.00	<input type="text" value="3"/> Stock: 10	RM48							
Remark	Successful										

ii. Test Result

Test Case No.	Remark
1.0	Successful
2.0	Successful
3.0	Successful
4.0	Successful
5.0	Successful
6.0	Successful
7.0	Successful
8.0	Successful
9.0	Successful
10.0	Successful

Conclusions

i. Problems and Solutions

During the development of the system, I found that each group of orders by user does not have a unique ID, which is important for customers and admins to check back the orders. To resolve this problem, I have created a new table in database that store the order ID of each group of orders placed. While in table that contains all the orders details, a new column is added to store the order ID and the data in this column is linked with order ID in new table. By doing so, all the orders with same order ID can be group together.

Besides, the system requires a payment system but I do not have any knowledge of integrating PayPal or other payment method with the system. In order to develop the payment function, I have carried out researches on Internet. I watched several YouTube tutorials, reading documentations and seek solutions from forums. Besides, I have also seek advice from lecturers on how should I implement PayPal in my system. Eventually, I am able to integrate a working PayPal payment system with my system.

While developing the product page, I realised that the stock quantity of each clothing size should be displayed according to what users selected on the size option tag. However, I do not want the page refreshes every time users change the clothing size on the size option tag, as it will make visitors frustrated. This issue also happens

on cart page when users want to edit the item's details. In order to solve this, I have learnt how to user AJAX to run SQL queries and reload certain part of the webpage without refreshing the whole webpage.

ii. Critical Appraisal

The strength of the new system is user can make payment using PayPal instead of transferring the money to owner's bank account manually. By using PayPal, the system will place the orders automatically once the customer has made the payment, without the need of confirmation by the owner. Besides, the sales report generated can be in various form, such as pie graph, bar graph or line graph. Different type of graphs may be used for different purposes and ease the interpretation of results. User can also adjust the range of the sales report according to his or her own preference, such as sales for this month or sales for last month. Furthermore, the new system is using AJAX (Asynchronous JavaScript and XML) to enhance the user experience. For instance, user can edit the quantity or size of their items in shopping cart without refreshing the page after doing so. For the product page, the use of AJAX also enable the user to view the stock quantity of each size without page refreshing when selecting their preferred size.

For the weakness of the new system is the sales report can only display the amount of sales for each day but not the overall revenue earned on each day and sales on each product. Besides, users of the system are not able to upload their own profile picture to the system, which will cause difficulty of users in identifying each other. Furthermore, users are not able to sort the table by clicking on the headers. Only limited important field can be sorted. In addition, reviews submitted by customers will be posted on the product page directly instead of granting approval by admins. Without prior checking on the reviews, customers may submitted something that is nonsense or vulgar on the system. Finally, users are not provided with suggestions while entering keywords on search bar. Lacking of this function will cause users to perform inaccurate queries (spelling errors), which will also affect the result received.

For the future enhancements, the system should generated sales report in aspects of overall sales and revenue as well as sales and revenue of each item. By doing so, the trend of each item can be identified and the sales of each item can be used to determine what kind of business strategy should be implemented. Besides, the system should enable users to upload their profile picture. Furthermore, tables displayed on the system

should be able to sort by clicking on the table headers. For example, clicking on ‘Name’ header should sort the names in ascending order (A to Z) and by clicking again the ‘Name’ header should sort the names in descending order (Z to A). In addition, the system should enable admins to check all of the reviews by the costumer before posting the review to the product page of the system. Finally, the system should provide users with suggestions while they are typing on the search bar.

User Manual

Frontend

1 Product

BAYMAX - BLUE
RM 25.00

Size
XS

Quantity
1 10 piece available

Select size

Stock Available

ADD TO CART

Product details

DETAILS REVIEWS

g/cotton, 8% elastane

Reviews by other user

2 Login

Welcome to LiveTee! Please login.

Email
jeslyn_ng11@hotmail.com

Password

Login

Not a member? [Register Here](#)

Enter email and password

Register an account

3 Register

Create Your LiveTee Account

Full Name
e.g. Lee Han Solo

Phone Number
010 e.g. 12345678

Email
jeslyn_ng11@hotmail.com

Address

Postal Code
e.g. 11600

Password

Confirm Password
Confirm your password

State
Johor

Enter personal information

By clicking 'Register Now' I agree to LiveTee Privacy Policy

Register Now

Login Here

4 Cart

Logout Shop My Purchase My Account Contact / About Us

Cart

Cart

Item	Size	Price (Each)	Quantity	Total
Super Heroes	XS	RM16.00	1	RM16

Select All

Subtotal (1 items): RM16

Total: RM16

CHECKOUT

5 Checkout

You're logged in with One Touch™, test. [Not you?](#)

Ship to [Change >](#)

test buyer
Level 01, No 1, First Avenue Bandar Utama, 47800 Petaling Jaya, Selangor Malaysia

Pay with [Manage >](#)

PayPal Balance Make PayPal balance my preferred way to pay

Visa x-1776 [Set payment method](#)

[Continue](#)

PayPal is the safer, faster way to pay

No matter where you shop, we keep your financial information secure.

6

My Account -> My Purchase

Logout Shop My Purchase My Account Contact / About Us

Cart

My Purchase

Order #49
Placed on 2019-04-09 10:53PM

Spiderman - Black Qty: 1 RM15 S [Delivering](#) [Track >](#)

Order #48
Placed on 2019-04-09 07:53PM

Spiderman - Black Qty: 2 RM30 S [Processing](#)

Order tracking

7

My Account -> My Purchase -> Write Review

Write Review

Order #26
Placed on 2019-03-27 11:47AM
Confirmed on 2019-03-28 11:27PM



OK Find Whatever T-Shirt Qty: 3 Qty: XXL RM45

Review

Rating ★ ★ ★ ★ ★ Give rating Write review

Submit Back

8

My Account -> My Purchase -> View Review

Write Review

Order #14
Placed on 2019-03-13 08:50PM
Confirmed on 2019-03-13 08:50PM



Tsum Tsum - Winnie White Qty: 2 Qty: S RM32

Review

Wow. Good product.
Nice quality.

Rating ★ ★ ★ ★ ★ Rating given Review given

< Back

9

My Account

My Account

Full Name

Email

Phone Number

Address

Postal Code

State

Edit personal information

Save

10 My Account -> Change Password

Logout Shop My Purchase My Account Contact / About Us

My Account Jeslyn Ng Cart

Change Password

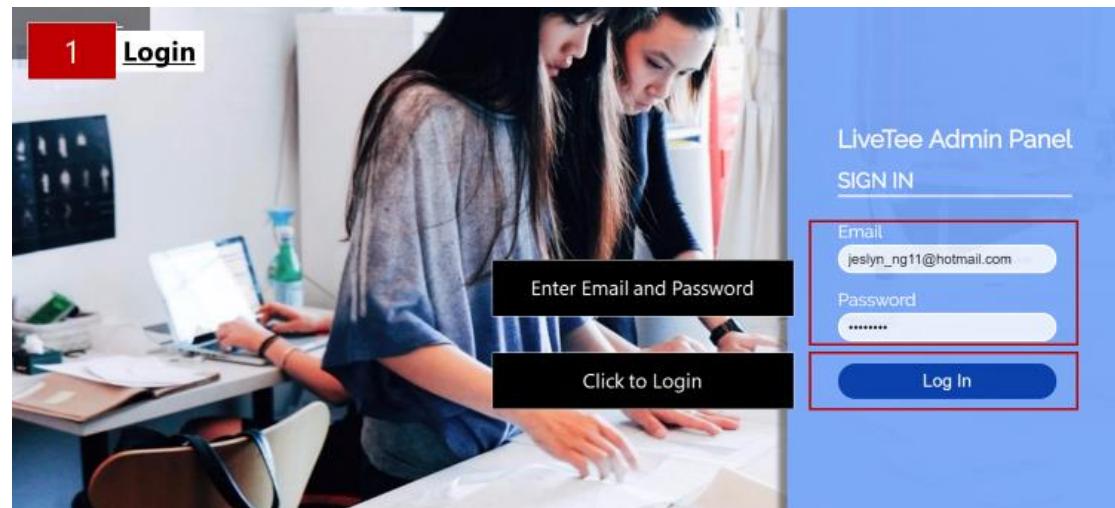
Current Password

New Password At least 8 characters

Confirm New Password Confirm your password

Confirm

Backend



2 Clothing -> Add

Clothing - Add

Clothing - Add

Dashboard

- Clothing +
- Stock +
- Order +
- Sales Report
- Staff +

Logout

Clothing - Add

Item Name

Price RM 0.00

Description

Available Size XS S M L XL XXL

Category Dresses

Image Choose File No file chosen

Tag Sales

Status Available Not Available

Enter Clothing Details

Submit

3 Clothing -> Edit

Clothing -> Edit					
Clothing -> Edit					
Category	All				
Status	All				
Search filter					
Clothing ID	Clothing Name	Category	Size Available	Status	Action
43	Mickey Camera - Black	Dresses	XS	Available	
44	Spiderman - Black	Tops	S,M,L,XL	Available	
45	Super Heroes	T-Shirts	XS,S,M,L,XL	Available	
48	Tsum Tsum - Winnie White	T-Shirts	S,M,L,XL	Available	
49	OK Find Whatever T-Shirt	T-Shirts	XS,S,M,L,XL,XXL	Available	
50	Dinosaur - Yellow	T-Shirts	XS,S,M,L	Available	
51	Donald Duck - White	T-Shirts	XS,S,M,L,XL,XXL	Available	
52	Baymax - Blue	T-Shirts	XS,S,M,L,XL,XXL	Available	

4 Clothing -> Edit -> Edit Item

Item Name	<input type="text" value="Mickey Camera - Black"/>
Price	<input type="text" value="RM 16.00"/>
Description	<input type="text" value="Mickey Camera - Black
Mickey Camera - Black
Mickey Camera - Black"/>
Available Size	<input type="checkbox"/> XS <input type="checkbox"/> S <input type="checkbox"/> M <input type="checkbox"/> L <input type="checkbox"/> XL <input type="checkbox"/> XXL
Category	<input type="button" value="Dresses"/>
Image	<input type="button" value="Choose File"/> No file chosen <small>*Uploading a new image will replace current image.</small>
Tag	<input type="button" value="Sales"/>
Status	<input type="button" value="Available"/> <input type="button" value="Not Available"/>
<input type="button" value="Change item details"/>	
<input type="button" value="Update"/>	

5 Stock -> Add

Stock -> Add					
Stock -> Add					
Category	All				
Status	All				
Search filter					
Clothing ID	Clothing Name	Category	Size Available	Status	Action
43	Mickey Camera - Black	Dresses	XS	Available	
44	Spiderman - Black	Tops	S,M,L,XL	Available	
45	Super Heroes	T-Shirts	XS,S,M,L,XL	Available	
48	Tsum Tsum - Winnie White	T-Shirts	S,M,L,XL	Available	
49	OK Find Whatever T-Shirt	T-Shirts	XS,S,M,L,XL,XXL	Available	
50	Dinosaur - Yellow	T-Shirts	XS,S,M,L	Available	
51	Donald Duck - White	T-Shirts	XS,S,M,L,XL,XXL	Available	
52	Baymax - Blue	T-Shirts	XS,S,M,L,XL,XXL	Available	

6 Stock -> Add -> Add Stock

Stock - Add

Dashboard

Clothing +

Stock +

Order +

Sales Report

Staff +

Logout

STOCK - ADD STOCK

Item Name Mickey Camera - Black

Size XS Size of item to be restock

Quantity 1 Restock quantity

Add Stock

7 Stock -> View

Stock - View

Dashboard

Clothing +

Stock +

Order +

Sales Report

Staff +

Logout

STOCK - VIEW STOCK

Category	All					
Status	All					
Search filter						
View stock for this item						
Clothing ID	Clothing Name	Category	Size Available	Status	Total Stock	Action
43	Mickey Camera - Black	Dresses	XS	Available	13	View Stock
44	Spiderman - Black	Tops	S.M.LXL	Available	3	View Stock
45	Super Heroes	T-Shirts	XS.S.M.LXL	Available	0	View Stock
48	Tsum Tsum - Winnie White	T-Shirts	S.M.LXL	Available	0	View Stock
49	OK Find Whatever T-Shirt	T-Shirts	XS.S.M.LXL.XXL	Available	20	View Stock
50	Dinosaur - Yellow	T-Shirts	XS.S.M.L	Available	0	View Stock
51	Donald Duck - White	T-Shirts	XS.S.M.LXL.XXL	Available	0	View Stock
52	Baymax - Blue	T-Shirts	XS.S.M.LXL.XXL	Available	10	View Stock

1 < 1 >

8 Stock -> View -> View Item Stock

Stock - View

Dashboard

Clothing +

Stock +

Order +

Sales Report

Staff +

Logout

STOCK - VIEW STOCK

Clothing Name
Mickey Camera - Black

Stock quantity for each size

Size	Quantity
XS	23
S	5
M	10

9 Order -> Manage

Order - Manage

Order ID	Username	Email	Date & Time	Action
#48	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 07:53PM	Manage Order
#47	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 07:14PM	Manage Order
#46	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 04:06PM	Manage Order
#45	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 04:05PM	Manage Order
#44	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 02:48PM	Manage Order
#43	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 10:06AM	Manage Order
#42	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-07 03:52PM	Manage Order
#41	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-07 03:52PM	Manage Order

Search filter Search

Logout

10 Order -> Manage -> Manage Order

Order - Manage

Order ID	#48
Username	Jeslyn Ng
Email	jeslyn_ng11@hotmail.com
Address	98-11-18, Jalan Bukit, 11700 Penang

Customer Details

Order Date & Time	2019-04-09 07:53PM			
Item ID	Stock Available	Item Name	Size	Quantity
44	13	Spiderman - Black	S	2

Order Details

Tracking Number	<input type="text"/>
-----------------	----------------------

Enter tracking number for delivery

Confirm Order

Logout

11 Order -> History

Order - History

Order ID	Username	Email	Order Confirmed On	Tracking Number	Order Status	Action
49	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-10 03:22PM	MY890128390935PS	Delivering	View Order
39	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-05 08:26AM	MY890128390935PS	Received	View Order
37	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-05 08:27AM	MY890128390935PS	Delivering	View Order
27	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-02 03:18PM	MY898842327213PS	Received	View Order
26	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-28 11:27PM	MY890128390789PS	Received	View Order
21	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY890128390117PS	Delivering	View Order
20	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY890128327213PS	Delivering	View Order
18	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-04-09 01:12PM	MY89012213067PS	Delivering	View Order
17	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-19 09:09AM	MY890128390999PS	Received	View Order
16	Jeslyn Ng	jeslyn_ng11@hotmail.com	2019-03-14 10:38PM	MY890128390888PS	Received	View Order

View order details for this item

Search filter Search

Logout

12 Order -> History -> View Order Details

Order - history

Username	Jeslyn Ng	Order Information		
Email	jeslyn_ng11@hotmail.com			
Staff in Charge	Jes Jes (2)			
Order Confirmed on	2019-03-19 09:09AM			
Order Date & Time	2019-03-19 09:09AM			
Item ID	Item Name	Size	Quantity	Price (Total)
45	Super Heroes	XS	1	RM16
45	Super Heroes	XS	1	RM16
49	OK Find Whatever T-Shirt	XL	2	RM30
			Total Payment	RM62

13 Sales Report

Sales Report

Period: Last Month
Graph Type: Pie

Search Filter

Save as Image **Download Report**

2019-03-13 2019-03-19 2019-03-27

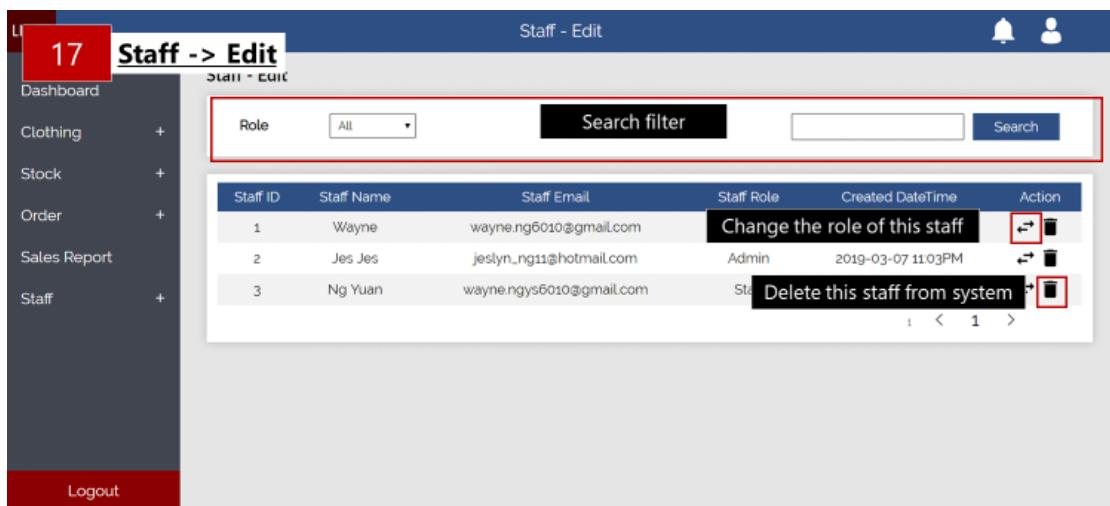
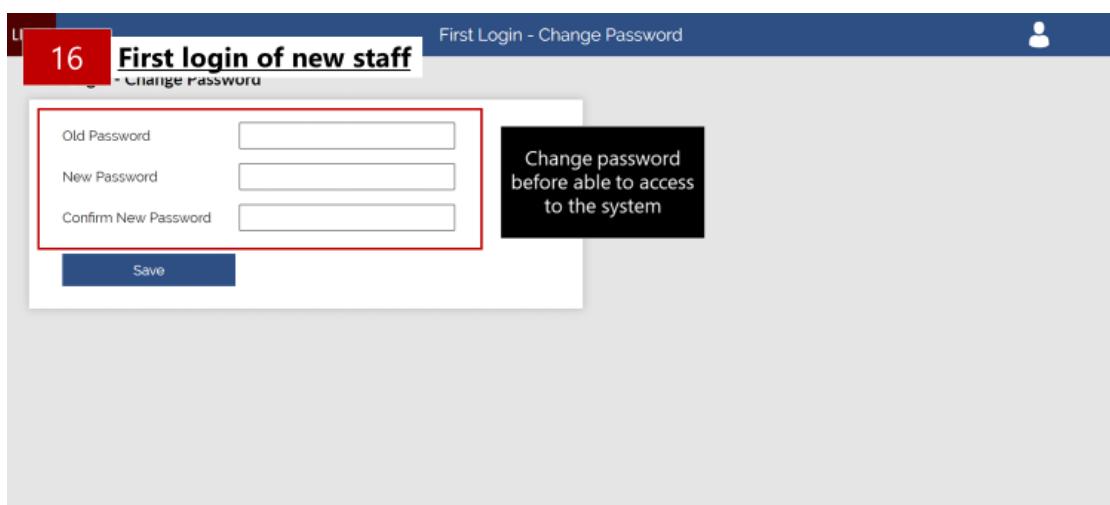
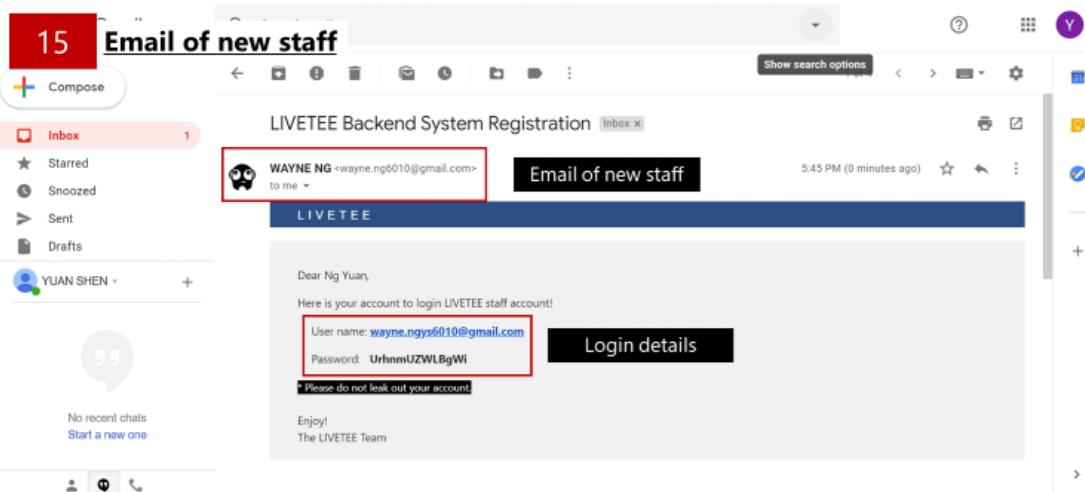
14 Staff -> Add

Staff - Add

Full Name:
Email:
Role: Staff

New Staff Details

Submit **Email will be sent**



18 My Account (Change Password)

My Account

Dashboard

Clothing +

Stock +

Order +

Sales Report

Staff +

Logout

ID 2
Name Jes Jes
Email jeslyn_ng11@hotmail.com
Role 1
Created On 2019-03-07 11:03PM

Account Details

Change Password

Current Password Current Password

New Password At least 8 characters

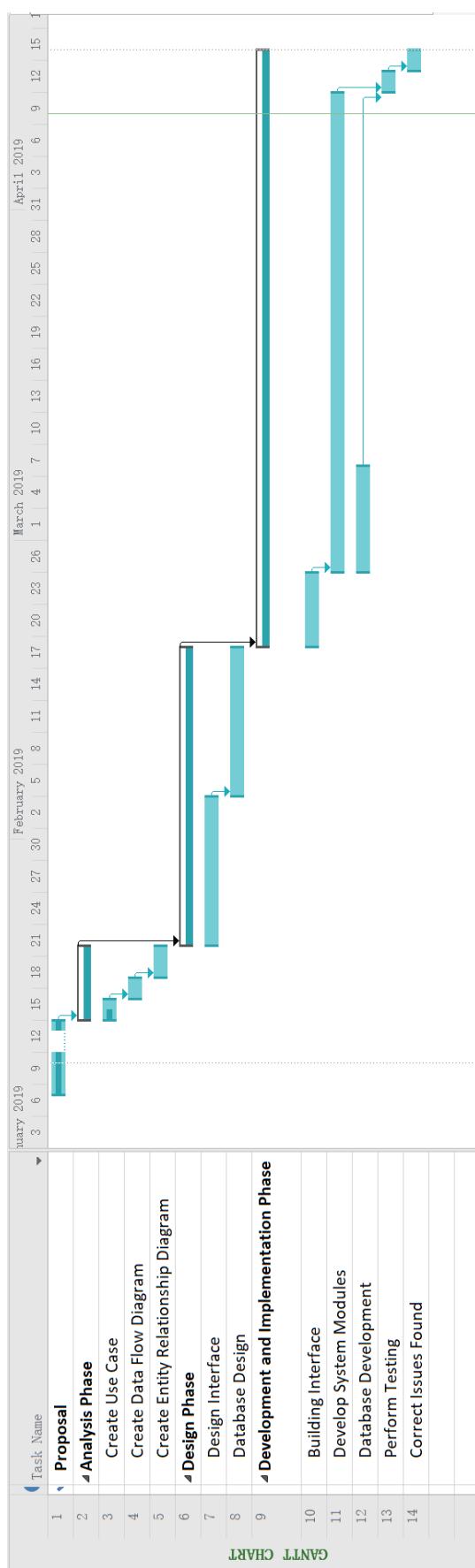
Confirm New Password Confirm your password

Enter current password and new password

Confirm

The screenshot shows a user interface for managing account details. On the left, there's a sidebar with navigation links like Dashboard, Clothing, Stock, Order, Sales Report, Staff, and Logout. A red box highlights the 'Account Details' section which contains personal information: ID (2), Name (Jes Jes), Email (jeslyn_ng11@hotmail.com), Role (1), and Created On (2019-03-07 11:03PM). Below this is a 'Change Password' form with three input fields: 'Current Password', 'New Password' (with a note 'At least 8 characters'), and 'Confirm New Password'. A red box surrounds the password input fields. To the right of the password form is a black box containing the instruction 'Enter current password and new password'. At the bottom of the page is a blue 'Confirm' button.

Gantt Chart



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