



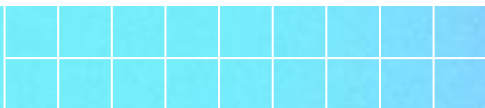
DATABASE MANAGEMENT SYSTEMS

FINAL EVALUATION

PROJECT: ECOMMERCE WEBSITE

MEMBERS-

AAYUSH	20JE0010
NAMAN MUNIYA	20JE0600
NEELANSH BANSIWAL	20JE0608
RAJNEESH MAURYA	20JE0762



Project Statement

Traditionally, customers are used to buying the products from shops, which requires the customers to show up in the shops in person, and walk around different shopping shelves, and travelling cost. It takes labour, time and space to process these operations.

Furthermore, the spread of the Covid-19 pandemic has caused a lot of changes in our lifestyle, people fearing to get outside their homes, transportation almost shut down and social distancing becoming all the more important. Big to small scale business that relied on the traditional methods which incur a lot of consequence due to the lockdown issues.

Solution

Best Buy Store is an Online shopping system provides a solution to reduce and optimize these expenses. Authorized Customers do not need to go to the factual shops to choose, and bring the products they need by hands. They simply browse their Personal computers to access shops, and evaluate the products description, pictures on the screen to choose products. In addition, the owners of the shop do not need to arrange or exhibit their stocks products.

They just input the description, prices of products, and upload their pictures. Simply, both customers and shop owners do not need to touch the real products in the whole process of shopping, and management. In the end the logistic centre will distribute the products required by customers, or products ordered by shop owners to their locations. The payment and products' quantity will be saved in database through the data flow. These shopping, management and distribution processes greatly simplify and optimize the retail business.

Project Objective

- An online shop that will allow online shoppers to buy products from formal and informal merchants.
- To design an online shopping store.
- To provides a solution to reduce and optimize the expenses of customer order management
- To create an avenue where people can shop for products online.
- To develop a database to store information on products and services.
- To provide user friendly environment and secure authentication to avoid frauds.

System Requirements

There are two types of users in the system :

- 1) Admin
- 2) Customer

Admin performs following tasks:

- Customer Management.
- Product Management
- Generate Report
- Updating and Removing Content.

Customer performs following tasks:

- View Products.
- Add to Wishlist/Cart.
- Purchase the Product.
- Edit his/her Profile.
- View his/her Order History.


Features for Customers:

- A customer can access any features only after he signs up and login to the system.
- Customer can also add/remove product to cart (if customer try to add same product in cart. It will add only one).
- If customer click on checkout button, then their payment will be successful and their order will be placed.
- Customer can check their order details by clicking on My Orders button.
- Customer can add a product either to cart or wishlist , from wishlist he can also add the product to the cart in order to buy.
- A customer can edit/view his profile whenever required.



Features for Admin

After login, there is an Admin Panel where the admin can do the following:

- Admin can add/delete/view/edit the Products.
 - Admin can view/edit/delete Customer details.
 - Admin can view Order details.
 - Admin can view/edit/delete Categories.
 - Admin can view/edit/delete Discounts on Products.
 - Admin can view/edit/delete List of Locations and their respective delivery fees.
 - Admin can Generate Report of Orders Placed.
- 

Design of Site

REGISTER PAGE: New users can register here



Sign Up

Welcome To our BestBuy Store. Sign Up to Enjoy the website

Email

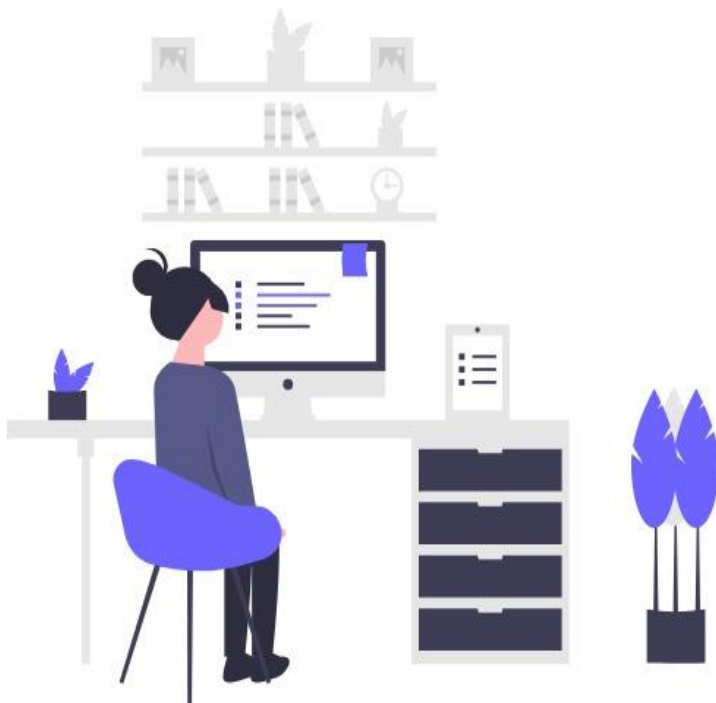
Name

Password

Already Have an Account? [Sign-In](#)

Let Me in!

Login Page : After registering You can login



Log In

Welcome To our BestBuy Store. Sign In below Enjoy the website

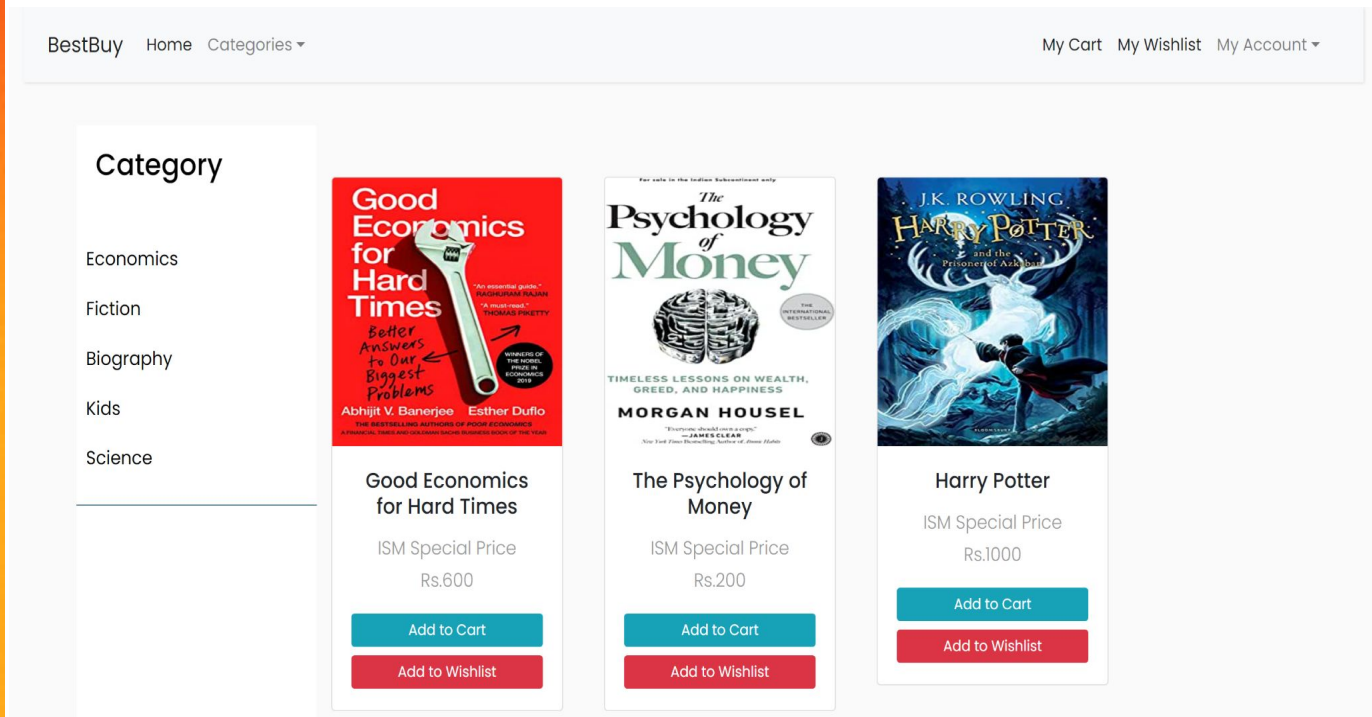
Name

Password

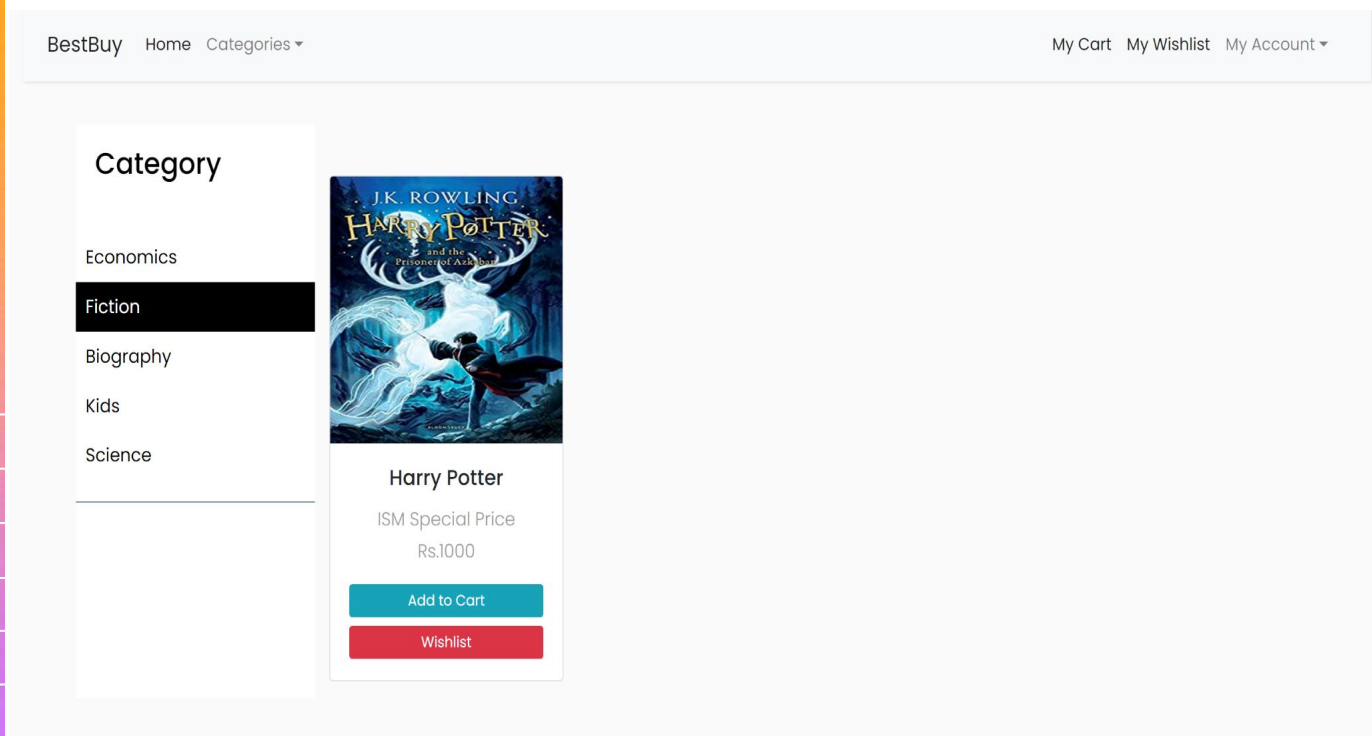
Don't Have an Account? [Sign-Up](#)

Let Me in!

HOME PAGE: The Home Screen will consist of screen where one can browse through the products which we have on our website



Categories Sidebar : Browse through Products of Specific Category.



Drop Bar for User: Facilitates features for logged in users.

BestBuy

Home

Categories ▾

My Cart

My Wishlist

My Account ▾

Category

Good Economics for Hard Times

The Psychology of Money

J.K. ROWLING
HARRY POTTER

Profile

Edit Profile

My Orders

Log Out

My Cart : Shows Products in your cart

BestBuy



Home

Categories ▾

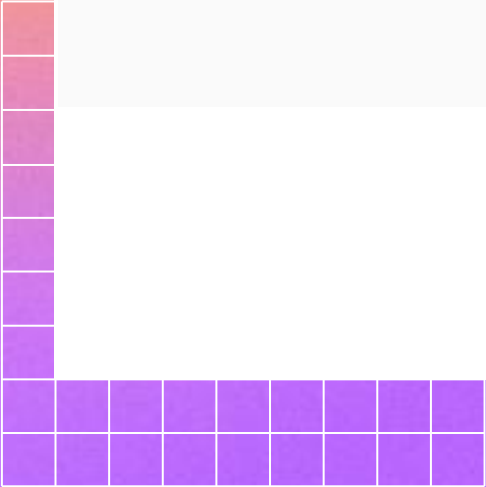
My Cart

My Wishlist

My Account ▾

SNO	Image	Description	Quantity	Price	Total Price	Delete
1		Good Economics for Hard Times	<div>- 1 +</div>	600	600	<div>Delete</div>
2		The Psychology of Money	<div>- 1 +</div>	200	200	<div>Delete</div>


Proceed to Checkout



Wishlist: Shows Products in your Wishlist

[BestBuy](#) [Home](#) [Categories ▾](#)

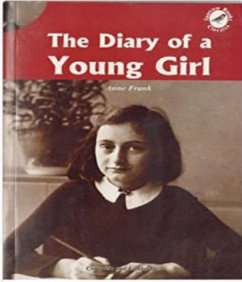
[My Cart](#) [My Wishlist](#) [My Account ▾](#)



Harry Potter

ISM Special Price Rs.1000

[Add to Cart](#) [Delete](#)



Diary of a Young Girl

ISM Special Price Rs.2000

[Add to Cart](#) [Delete](#)

Edit Profile Page: Provides user to edit his/her Profile.

Edit Your Profile

Name:

Rajneesh

Email:

mraneesh723@gmail.com

Password:

.....

Image:

Choose File

No file chosen

Details:

null

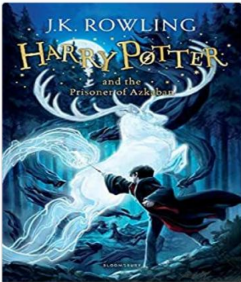
[View User](#)

[Submit](#)

Wishlist: Shows Products in your Wishlist

[BestBuy](#) [Home](#) [Categories ▾](#)

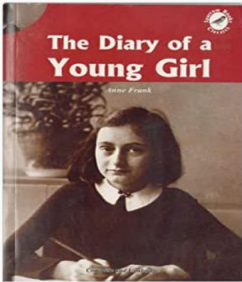
[My Cart](#) [My Wishlist](#) [My Account ▾](#)



Harry Potter

ISM Special Price Rs.1000

[Add to Cart](#) [Delete](#)



Diary of a Young Girl

ISM Special Price Rs.2000

[Add to Cart](#) [Delete](#)

Edit Profile Page: Provides user to edit his/her Profile.

Edit Your Profile

Name:

Rajneesh

Email:

mraneesh723@gmail.com

Password:

.....

Image:

[Choose File](#) No file chosen

Details:

null

[View User](#)

[Submit](#)

Checkout Page: Shows information of orders for Payment.

BestBuy

Home



Categories ▾

About Us

My Cart

My Wishlist

My Account ▾

SNO	Image	Description	Quantity	Price	Total Price
1		Good Economics for Hard Times	1	600	600
2		The Psychology of Money	2	200	400

Delivery Location

New Delhi


Show Total

Total Amount= 1000
Delivery Fee = 50

GRAND TOTAL AMOUNT = 1050
Select Payment Option
☒ Cash On Delivery

Checkout

Profile Page: Views Profile Page of user.


Rajneesh

Information

Email

mrajneesh723@gmail.com

ID

2

User Details

Hello, this is my profile view.

Activate Windows
Go to Settings to activate Window

Admin Panel: Manage Admin Users

Admin Panel

Admin

Users

Products

Orders

Categories

Settings


Report

Add New

Hello

View Admin

Add Admin

ID	Name	Email	Password	Image	Details	Delete	Edit
20	Admin1	admin@mail.com	1234			Delete	Edit

Admin Panel: Manage Customer Records

Admin Panel

Admin

Users

Products

Orders

Categories

Settings




Report

Add New

Hello

View Users

Add User

ID	Name	Email	Password	Image	Details	Delete	Edit
1	Aayush	aayush@mail.com	123		hello	Delete	Edit
2	Rajneesh	mrjneesh723@gmail.com	123456		Hello, this is my profile view.	Delete	Edit
17	Naman	naman@mail.com	1234		hi	Delete	Edit

Admin Panel: Manage Products

Admin Panel

Admin

Users

Products

Orders

Categories

Settings





Report

Add New

Hello

View Products

Add Product

ID	Image	Description	Category	Price	Quantity	Delete	Edit
11		Good Economics for Hard Times	Finance and Economics	600	100	Delete	Edit
12		The Psychology of Money	Finance and Economics	200	50	Delete	Edit
14		Harry Potter	Fiction	1000	200	Delete	Edit
15		Diary of a Young Girl	Biography	2000	10	Delete	Edit

Admin Panel: Manage Categories

Admin Panel

Admin

Users

Products

Orders

Categories

Settings

Report

Add New

Hello

View Categories

Add Category

ID	Name	Delete	Edit
1	Economics	Delete	Edit
2	Fiction	Delete	Edit
3	Biography	Delete	Edit
4	Kids	Delete	Edit
5	Science	Delete	Edit

Admin Panel: Manage Discounts

Admin Panel

Admin

Users

Products

Orders

Categories

Settings

Report

Add New

Hello

Manage Discount

ID	Description	Category	Price	Discount	Discounted Price	Remove Discount	Set Discount
11	Good Economics for Hard Times	Finance and Economics	600	0%	600	Remove	Edit
12	The Psychology of Money	Finance and Economics	200	0%	200	Remove	Edit
14	Harry Potter	Fiction	1000	36%	640	Remove	Edit
15	Diary of a Young Girl	Biography	2000	0%	2000	Remove	Edit

Admin Panel: Manage Delivery Locations and their respective Delivery Fees

Admin Panel

Admin

Users

Products

Orders

Categories

Settings

Report

Add New

Hello

List of Locations

Add Location

ID	Place Name	Pincode	Delivery Fee	Delete	Edit
8	Bombay	100001	120	Delete	Edit
9	New Delhi	200001	50	Delete	Edit
10	Bangalore	300001	190	Delete	Edit
11	Kolkata	400121	300	Delete	Edit

Admin Panel: View Orders

Admin Panel

Admin

Users

Products

Orders







Categories

Settings

Report

Add New

Hello

S.NO.	Image	Description	Buyer Username	Buyer User Id	Quantity	Price	Total Price
1		Good Economics for Hard Times	Aayush	1	1	600	600
2		Diary of a Young Girl	Aayush	1	1	2000	2000
3		Good Economics for Hard Times	Naman	17	1	600	600
4		The Psychology of Money	Naman	17	1	200	200
5		Harry Potter	Naman	17	1	1000	1000
6		Good Economics for Hard Times	Naman	17	1	600	600

Admin Panel: Generate Report

Admin Panel

Admin

Users

Products

Orders

Categories

Settings

Report

Add New

Hello

View Report

From:






mm/dd/yyyy

To:















mm/dd/yyyy

Submit












Category Table: Categories information is stored in table.

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	category_id 	int(5)			No	None		AUTO_INCREMENT	 Change  Drop More
<input type="checkbox"/>	2	category_name	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop More


















User Table: User information is added to database with Unique ID based on their roles.

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	user_id 	int(11)			No	None		AUTO_INCREMENT	 Change  Drop More
<input type="checkbox"/>	2	user_name	varchar(256)	utf8mb4_general_ci		Yes	NULL			 Change  Drop More
<input type="checkbox"/>	3	user_email 	varchar(255)	utf8mb4_general_ci		Yes	NULL			 Change  Drop More
<input type="checkbox"/>	4	user_password	varchar(256)	utf8mb4_general_ci		No	None			 Change  Drop More
<input type="checkbox"/>	5	user_image	varchar(256)	utf8mb4_general_ci		Yes	NULL			 Change  Drop More
<input type="checkbox"/>	6	user_details	varchar(256)	utf8mb4_general_ci		Yes	NULL			 Change  Drop More

Cart Table: Cart information is stored in table.

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	c_id 	int(5)			No	None		AUTO_INCREMENT	 Change  Drop More
<input type="checkbox"/>	2	u_id	int(5)			No	None			 Change  Drop More
<input type="checkbox"/>	3	p_id	int(5)			No	None			 Change  Drop More
<input type="checkbox"/>	4	quantity	int(5)			No	None			 Change  Drop More
<input type="checkbox"/>	5	c_total	int(11)			No	None			 Change  Drop More

Product Table: Product information is added to database with Unique IDs.

	#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
<input type="checkbox"/>	1	product_id 	int(5)			No	None		AUTO_INCREMENT	 Change  Drop More
<input type="checkbox"/>	2	product_desc	varchar(256)	utf8mb4_general_ci		No	None			 Change  Drop More
<input type="checkbox"/>	3	product_quantity	int(5)			No	None			 Change  Drop More
<input type="checkbox"/>	4	product_price	int(10)			No	None			 Change  Drop More
<input type="checkbox"/>	5	product_cat_id	int(5)			No	None			 Change  Drop More
<input type="checkbox"/>	6	product_category	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop More
<input type="checkbox"/>	7	product_image	varchar(50)	utf8mb4_general_ci		No	None			 Change  Drop More
<input type="checkbox"/>	8	product_owner	varchar(30)	utf8mb4_general_ci		No	None			 Change  Drop More

Challenges Faced

Selection of Right DBMS:

criteria which we set

- i. Easy to understand.
- li. In sync to Our course.
- lii. Large Community support.
- Iv. To understand other DBMS with the help of this DBMS

Solution: Preferred RDBMS, more specifically chosen Mysql as it fits to solve the above problems.

Authentication Related problems:

We wanted that a user can't access home page without logging into the home page.

Solution: Used \$_SESSION to solve this problem. A session is a way to store information (in variables) to be used across multiple pages.

So I started the session on logging in and put the condition to open the page only when session is active.

Connecting database with PHP code:

Solution :

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

mysqli_connect() function opens a new connection to the MySQL server.

How we will run codes in Local server:

Solution: Xampp

xampp allows you to work on a local server and test a local copies of websites using PHP code and MySQL databases.

Once xampp is active, you can access your local copy with a browser using localhost. Also Xampp can run over both Windows and Linux.

Selection of Front-end Framework for Smooth interface:

Bootstrap makes responsive web design a reality. It makes it possible for a web page to detect the visitor's screen size and orientation and automatically adapt the display accordingly.

The software is available precompiled or as source code.

Conclusion

The project titled BestBuy was completed successfully. The system has been developed with much care and free of errors and at the same time it is efficient and less time consuming. The purpose of this project was to develop a web application for purchasing items from an online store. This project enabled us to gain valuable information and practical knowledge on several topics like designing web pages using HTML, CSS, usage of Bootstrap's responsive templates, designing of full stack PHP application, and management of database using MySQL.

Also, the project helped us in understanding about the development phases of a project and software development life cycle. We learned how to test different features of a project. This project has given us great satisfaction in having designed an application which can be implemented to any nearby shops or branded shops selling various kinds of products by simple modifications. However, it was very challenging learning and developing an application using a new technology.