

PROJECT REPORT
ON
Super Stockies to Direct Retailer/Distributor selling Web
Application
SUBMITTED IN FULFILLMENT FOR AWARD OF DEGREE
IN
M.Sc. Information Technology & CA
(BATCH 2020-2023)

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I would like to acknowledge that this project was completed entirely by me and not by someone else.

ABSTRACT

In this project we tried to cover all the aspects relating to the profiles of the people. This project unique blend combining the modern technology and also keeping in mind that messaging ways of data processing considering all minute exchanges, we have tried to include different facilities to enhance the process of person.

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Project Profile

Brief and Complete Project Definition

Definition: Super Stockies to Direct Retailer/Distributor selling Web Application

Generally, the company who produces products, sells it to super stockies. Then after, super stockies have to sell to “Salesmen” in order to make it reach to Retailer/Distributor. This increases not only cost for customers but also for Retailers/Distributors, and increases an extra step in the business.

But this project is an attempt to remove the Salesmen step in between so that Distributors/Retailers can directly buy products from Super Stockies, and in turn sell the products for cheaper price to the customer, and it's a win-win situation for Super Stockies, Retailers/Distributors and Customers.

Complete Project Requirements

Hardware Requirements

Processor: 486 D*2 or Higher Processor.

Storage: Free Disk Space 100 MB.

Misc.: Color Monitor & Multimedia Kit.

Printer: Any printer to print reports

Software Requirements

Operating System :~ Windows 7, 8.1, 10, 11

Web Server :~ XAMPP (Apache)

Web Browser :~ Mozilla Firefox, Google Chrome, Opera.

Editor :~ Microsoft Visual Studio Code

Network Requirements

Internet Required? : Yes

Internet: One Free comport For Modem (56 Kbps)

Modem: 4Mbps or higher

Internet Speed: 2 Mbps or higher

Analysis About Existing System

Generally, the company who produces products, sells it to super stockies. Then after, super stockies have to sell to “Salesmen” in order to make it reach to Retailer/Distributor. This increases not only cost for customers but also for Retailers/Distributors, and increases an extra step in the business.

So, the problem with this system is

- Time taken for product to reach from company to customer increases
- Cost for customer and retailer/distributor increases as the salesman takes his profit in between.
- The super stockies have to do an extra step of selling products to salesman
- The product loses its value because of more cost

Feasibility Study

Feasibility study provides us information about cost of our project. This work on three feature: technical, economical, operational feasibility study.

- **Technical:**

Technical feasibility check the project is technically possible or not. Technical feasibility can work for the project to be done with current equipment, existing software technology & available personnel. There is need for new technology.

- **Economical:**

Economical Feasibility check, there are sufficient benefits to creating the system. It determines costs and expected of each of the alternative

- **Operational:**

Will the system be used if it is developed & implemented?

Will there be resistance from user that will undermine the possible application the possible application benefits?

Limitations of Existing System

- Time taken for product to reach from company to customer increases
- Cost for customer and retailer/distributor increases as the salesman takes his profit in between.
- The super stockies have to do an extra step of selling products to salesman
- The product loses its value because of more cost

Scope of the Proposed Systems

Currently, after the implementation, the proposed system will be at the scope of state level. We have made this decision because the super stockies may need to deal with retailers/distributors living outside of their home town.

In future, if more people will adapt to this technology, we can expand to country level, or even global level.

Features of the Proposed System

Admin:

- Login
- Add Category
- Add Item
- Manage Item
- Manage Order
- Logout

User:

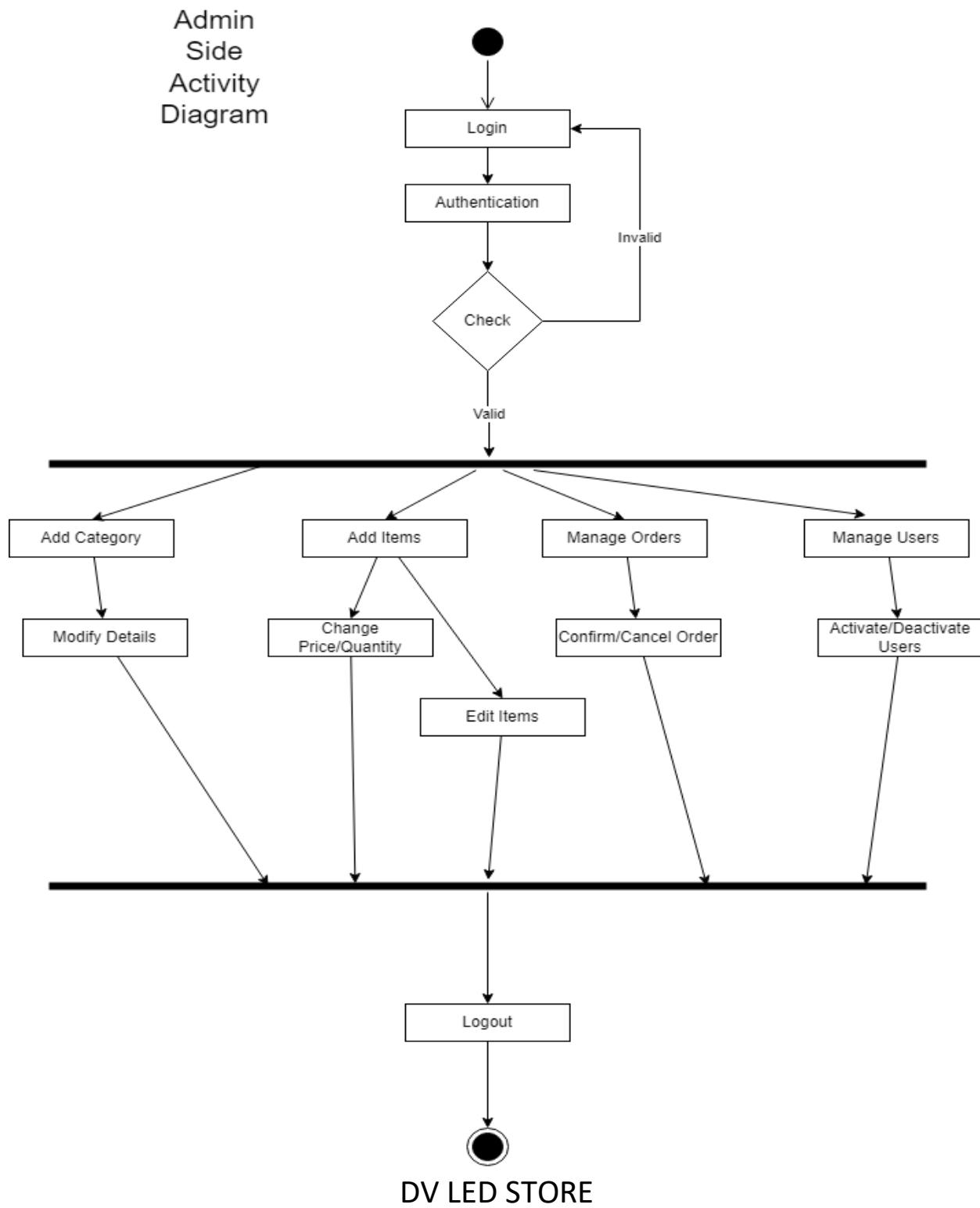
- Login
- Registration
- View Item
- Make order
- Make payment
- Change Password
- Logout

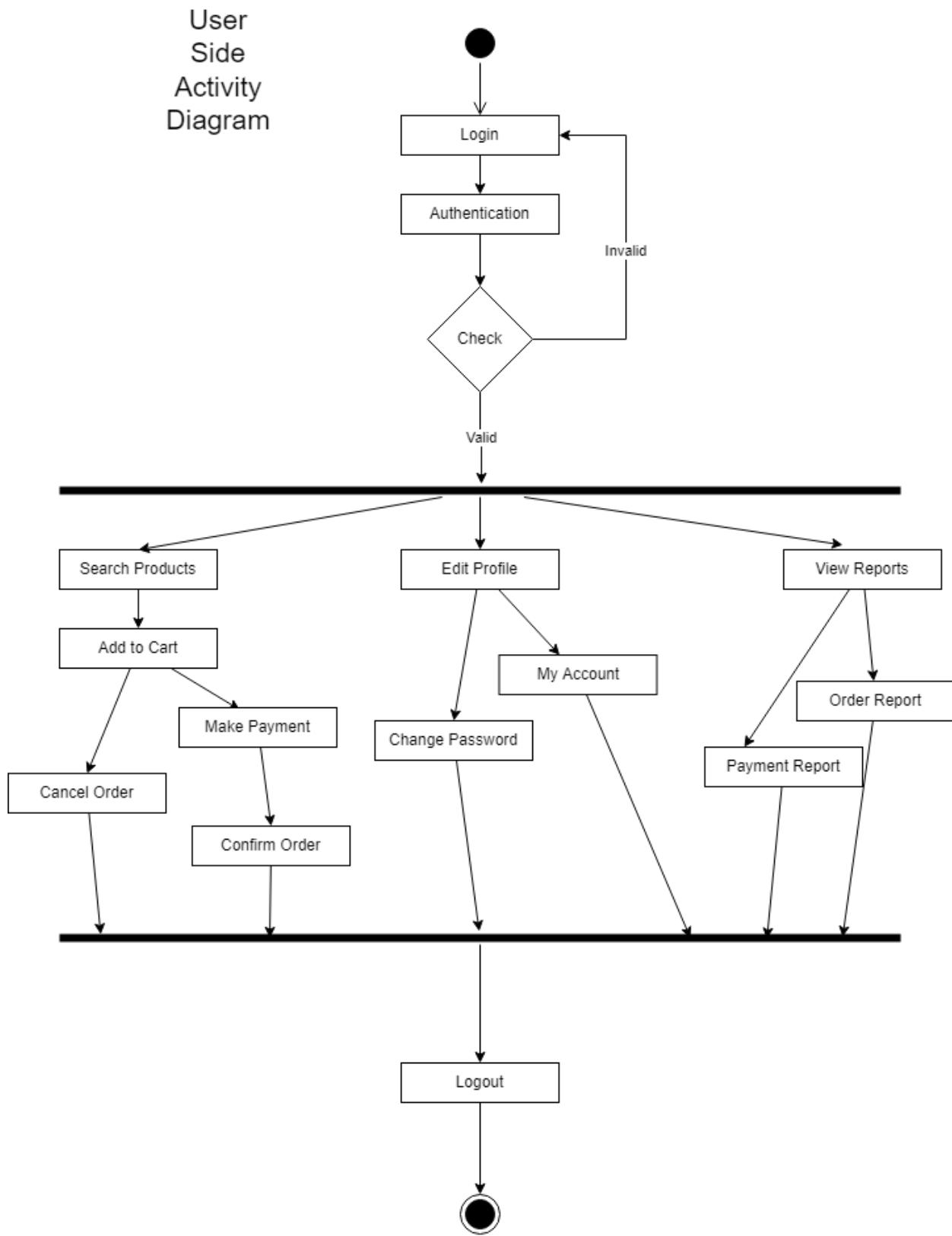
Use Case Diagram



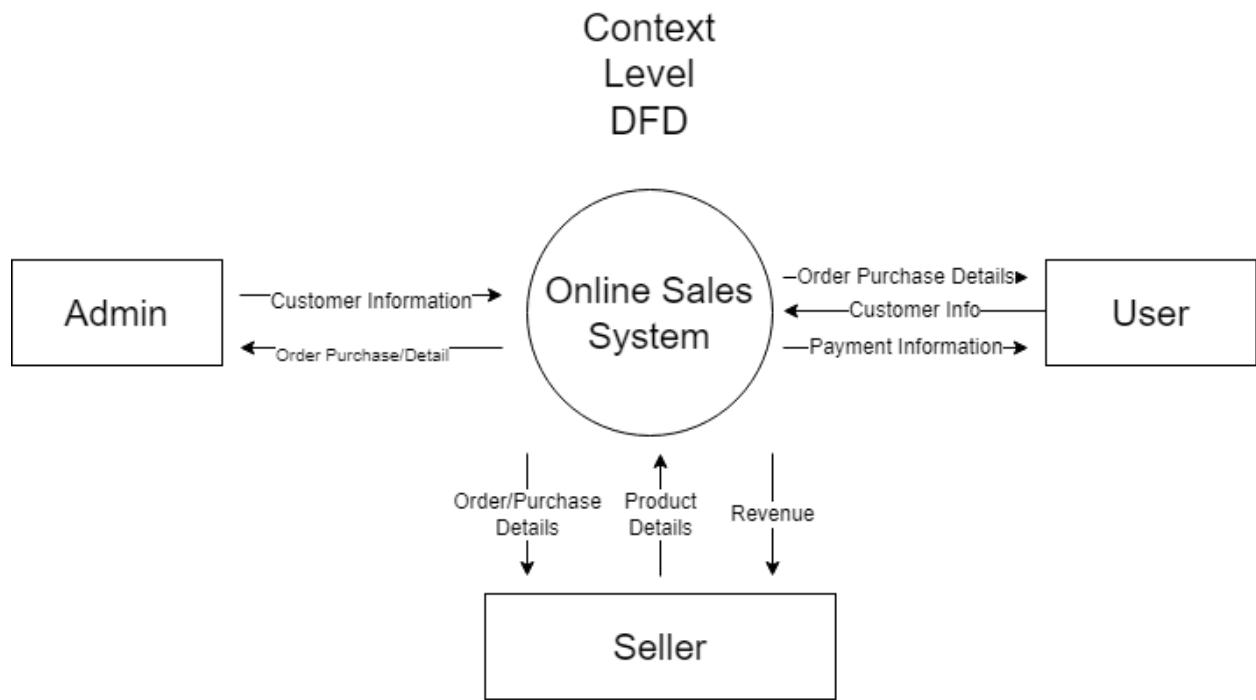
Design

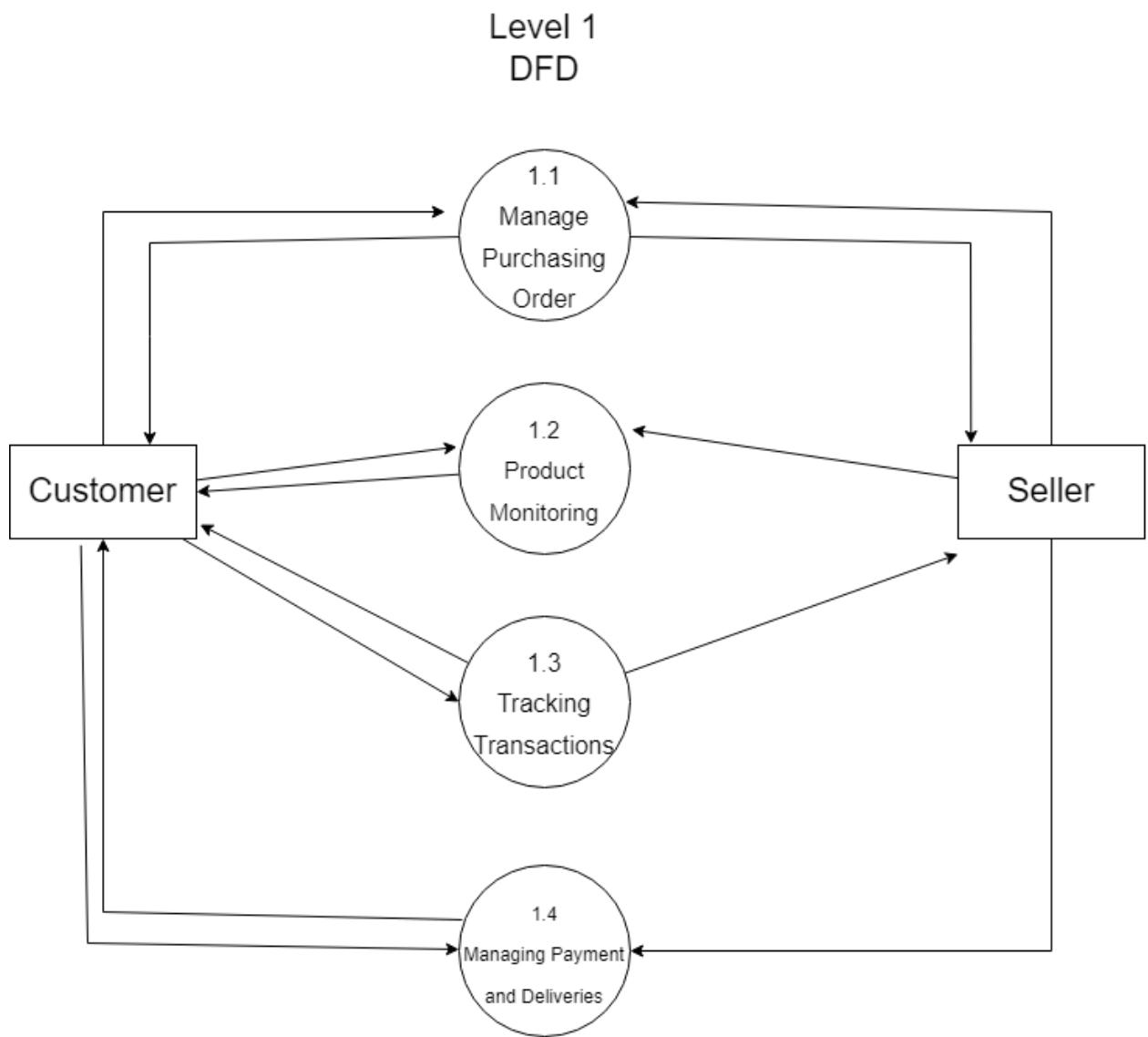
Activity Diagram

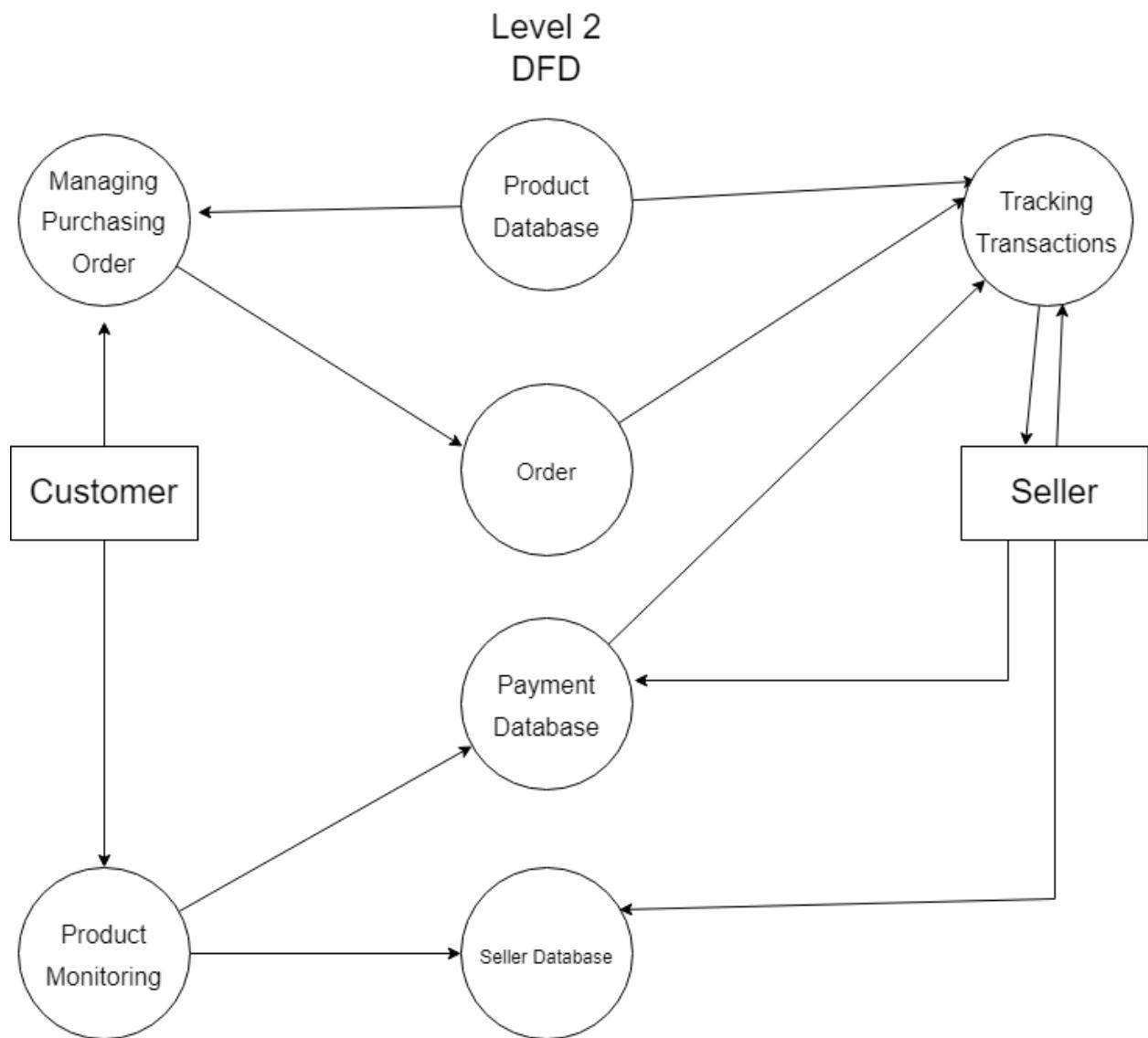




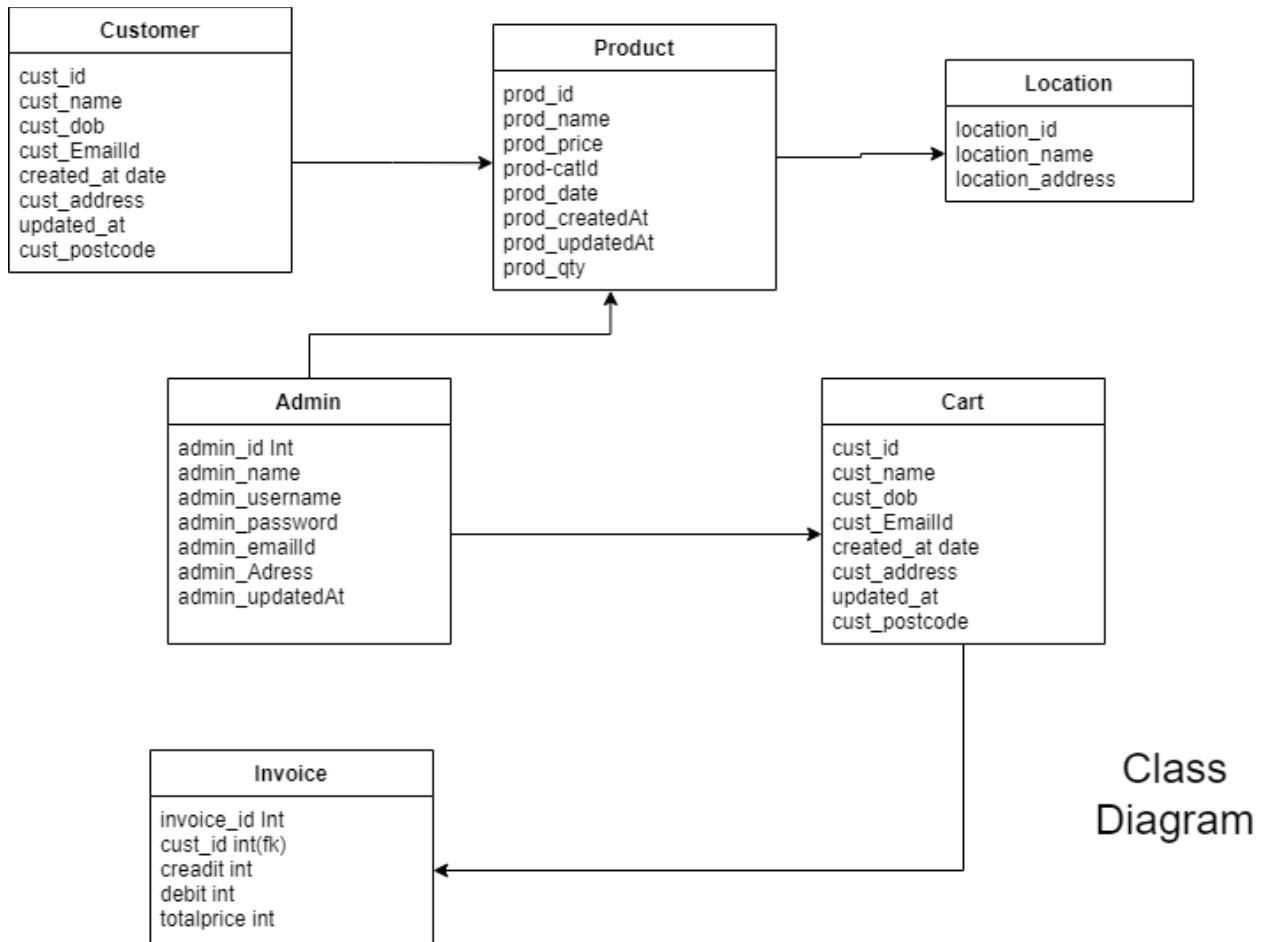
Data Flow Diagram



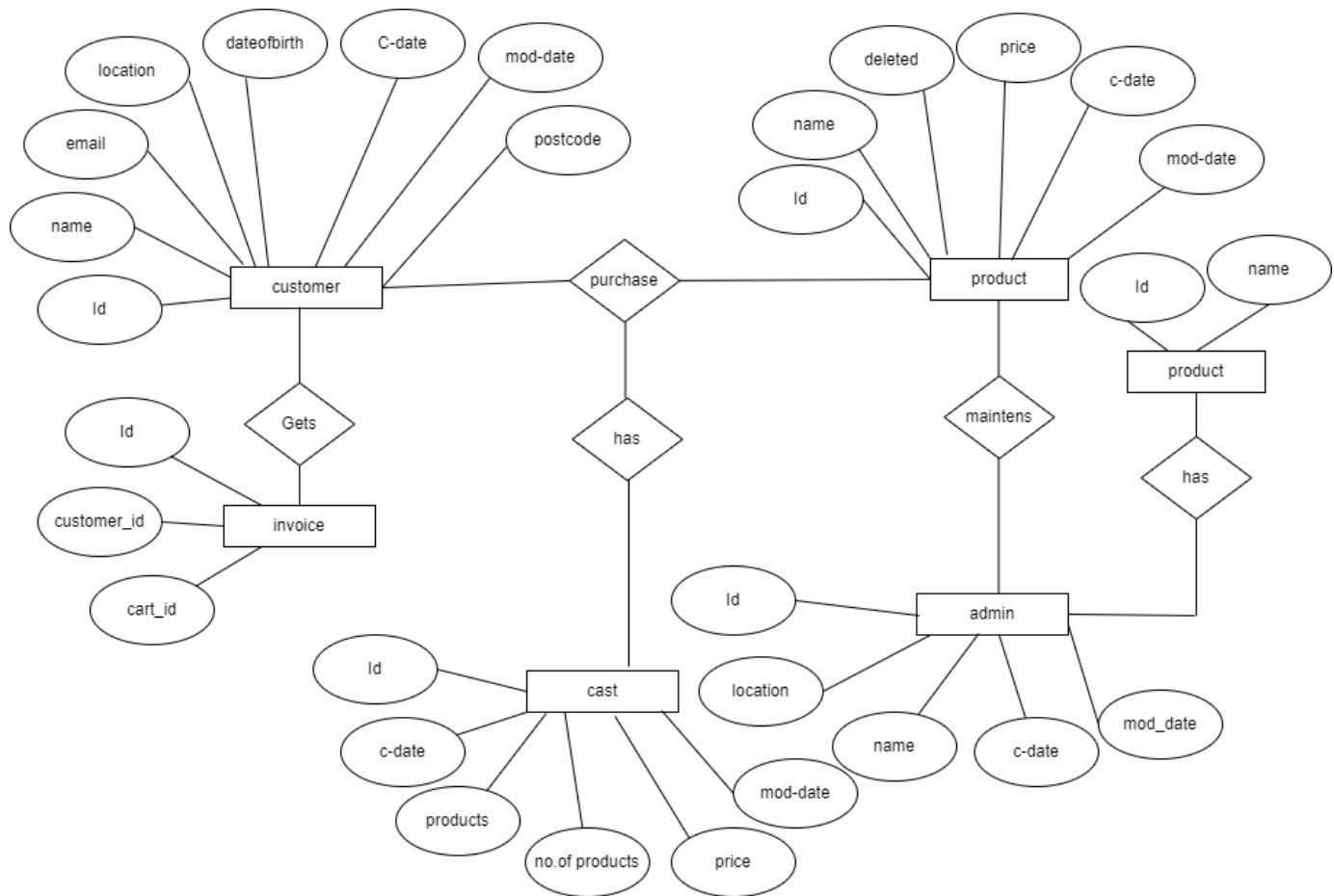




Class Diagram



E-R Diagram



Data Dictionary

1. users

Field Name	Data Type	Size	Attributes
cust_id	Int	11	Primary Key
cust_name	Varchar	100	
cust_dob	Varchar	100	
cust_EmailId	Varchar	100	
created_at	Varchar	100	
cust_address	Varchar	100	
updated_at	Varchar	100	
cust_postcode	Varchar	100	
cust_city	Varchar	100	

2. product

Field Name	Data Type	Size	Attributes
prod_id	Int	11	Primary Key
prod_name	Varchar	100	
prod_price	Varchar	100	
prod_date	Varchar	100	
prod_createdAt	Varchar	100	
prod_updatedAt	Varchar	100	
Prod_stock	Varchar	100	

4. admin

Field Name	Data Type	Size	Attributes
admin_id	Int	11	Primary Key
admin_name	Varchar	100	
admin_number	Varchar	100	
admin_email	Varchar	100	
admin_password	Varchar	100	

5. orders

Field Name	Data Type	Size	Attributes
cart_id	Int	11	Primary Key
cart_noProd	Varchar	100	
cart_totalPrice	Varchar	100	
cart_updatedAt	Varchar	100	
Cart_customerid	varchar	100	Foreign key
Cart_productid	varchar	100	Foreign key

6. invoice

Field Name	Data Type	Size	Attributes
invoice_id	Int	11	Primary Key
cust_id	Varchar	100	Foreign Key
creadit	Varchar	100	
debit	Varchar	100	
totalprice	Varchar	100	

```

public function authenticate(Request $request)
{
    $this->validate($request, [
        'email' => 'required|email',
        'password' => 'required'
    ]);

    if(Auth::guard('admin')->attempt(['email' => $request->email, 'password' => $request-
>password], $request->get('remember')))
    {
        return redirect()->route('admin.dashboard');
    }
    else
    {
        session()->flash('error', 'Either Email or Password is Incorrect!');
        return back()->withInput($request->only('email'));
    }
}

```

5. IMPLEMENTATION

```

public function single($id)
{
    if(Auth::guard('web')->check())
    {
        $cartCount = count(Cart::where('user_id',Auth::user()->id)->get());
    }
    else
    {
        $cartCount = null;
    }
    $product = Product::find($id);
    return view('client_side.single',compact('product','cartCount'));
}

```

```
public function update(Request $request)
{
    $user = User::find(Auth::guard('web')->user()->id);
    $user->name = $request->input('name');
    $user->dob = $request->input('dob');
    $user->contact = $request->input('contact');
    $user->email = $request->input('email');
    $user->address = $request->input('address');
    $user->city = $request->input('city');
    $user->pincode = $request->input('pincode');
    if($request->input('password'))
    {
        $user->password = Hash::make($request->input('password'));
    }
    $user->update();
    return redirect('/');
}
```

```
public function addToCart(Request $request, $id)
{
    $product = Product::find($id);

    if(count(Cart::where('product_id',$id)->get()) > 0)
    {
        $cart = Cart::where('product_id',$id)->get();
        $cart[0]->qty = $cart[0]->qty + $request->input('qty');
        $cart[0]->update();
        $product->stock = $product->stock - $request->input('qty');
        $product->update();
    }
    else
    {
        $cart = new Cart;
        $cart->user_id = Auth::guard('web')->user()->id;
        $cart->product_id = $id;
        $cart->qty = $request->input('qty');
        $cart->save();
        $product->stock = $product->stock - $request->input('qty');
        $product->update();
    }
    return redirect('/my-cart');
}
```

```
public function index()
{
    $cart = Cart::where('user_id',Auth::user()->id)->get();
    if(Auth::guard('web')->check())
    {
        $cartCount = count($cart = Cart::where('user_id',Auth::user()->id)->get());
    }
    else
    {
        $cartCount = null;
    }
    return view('client_side.my-cart',compact('cart','cartCount'));
}
```

```
public function update(Request $request, $id)
{
    $user = User::find($id);
    $user->name = $request->input('name');
    $user->contact = $request->input('contact');
    $user->city = $request->input('city');
    $user->email = $request->input('email');
    $user->address = $request->get('address');
    $user->dob = $request->input('dob');
    $user->pincode = $request->input('pincode');
    $user->update();
    return redirect('/admin/users/list');
}
```

```
public function update(Request $request)
{
    $admin = Admin::find(Auth::guard('admin')->user()->id);
    $admin->email = $request->input('email');
    if($request->input('password'))
    {
        $admin->password = Hash::make($request->input('password'));
    }
    $admin->update();
    return redirect('/admin/');
}
```

```
public function update(Request $request, $id)
{
    $product = Product::find($id);
    $product->name = $request->input('name');
    $product->price = $request->input('price');
    $product->stock = $request->input('stock');
    if($request->hasFile('image'))
    {
        $destination = 'uploads/products/' . $product->image;
        if(File::exists($destination))
        {
            File::delete($destination);
        }
        $file = $request->file('image');
        $extension = $file->getClientOriginalExtension();
        $filename = time() . '.' . $extension;
        $file->move('uploads/products/', $filename);
        $product->image = $filename;
    }

    $product->update();
    return redirect('/admin/products');
}
```

```
public function destroy($id)
{
    $product = Product::find($id);
    $destination = 'uploads/products/' . $product->image;
    if(File::exists($destination))
    {
        File::delete($destination);
    }
    $product->delete();
    return redirect('/admin/products');
}
```

```
public function store(Request $request)
{
    $product = new Product;
    $product->name = $request->input('name');
    $product->price = $request->input('price');
    $product->stock = $request->input('stock');
    if($request->hasFile('image'))
    {
        $file = $request->file('image');
        $extension = $file->getClientOriginalExtension();
        $filename = time().'.'.$extension;
        $file->move('uploads/products/', $filename);
        $product->image = $filename;
    }

    $product->save();
    return redirect('/admin/products');
}
```

```
public function products()
{
    $products = Product::all();
    return view('admin_side.products', compact('products'));
}
```

```
public function update(Request $request, $id)
{
    $cart = Cart::find($id);
    $cart->user_id = $request->input('user_id');
    $cart->product_id = $request->input('product_id');
    $cart->qty = $request->input('qty');
    $cart->update();
    return redirect('/admin/carts');
}
```

```
public function edit($id)
{
    $cart = Cart::find($id);
    return view('admin_side.updatecart',compact('cart'));
}
```

```
public function destroy($id)
{
    $cart = Cart::find($id);
    $cart->delete();
    return redirect('/admin/carts');
}
```

```
public function store(Request $request)
{
    $cart = new Cart;
    $cart->user_id = $request->input('user_id');
    $cart->product_id = $request->input('product_id');
    $cart->qty = $request->input('qty');
    $cart->save();
    return redirect('/admin/carts');
}
```

```
public function create()
{
    return view('admin_side.addcart');
}
```

```
public function index()
{
    $carts = Cart::all();
    return view('admin_side.carts',compact('carts'));
}
```

```
public function logout()
{
    Auth::guard('admin')->logout();
    return redirect()->route('admin.login');
}
```

5.1 IMPLEMENTATION STATUS

Task	Date
Finding appropriate Templates for User and Admin Side	24/10/2022
Converting HTML Templates into Laravel Blade Template in a single project	30/10/2022
Customizing and Adding Custom Form and Table pages into converted Laravel Templates	31/10/2022
Authentication (Functional)	20/11/2022
Authentication (With Template Design Login/Register Pages)	21/11/2022
Performing all CRUD Operations (Normal)	23/11/2022
Performing CRUD Operations (with Foreign Key)	25/11/2022

5.2. USER SIDE SCREENSHOTS

The screenshot shows the homepage of DV LED STORE. At the top, there's a navigation bar with a shopping cart icon, the store name "DV LED STORE" in red, and buttons for "Login" and "Register". Below the navigation is a menu with links to "Home", "Products", "About Us", and "Contact Us". The main feature is a large image of a long LED light bulb with many small yellow LEDs visible inside. Overlaid on this image is a promotional banner for "advanced Wireless earbuds" and "BEST HEADPHONE", with a "Shop Now" button. Below the main image, there are three smaller product cards: "new name RS.555" (a small LED light), "test RS.100" (a coiled LED strip), and "AB RS.10000" (a large rectangular LED panel). At the bottom of the page, there are three service promises: "Free Shipping on orders over ₹5000", "Fast Delivery All over Gujarat", and "Big Choice of LED Lights". The footer contains "Quick Links" with links to About Us, Contact Us, Help, FAQs, Terms of use, and Privacy Policy. It also includes "Get in Touch" with address, phone numbers, and email addresses. A "Newsletter" section offers free delivery on first orders with a sign-up form. The footer also features social media links for Facebook, Twitter, and Google+.

Quick Links

- About Us
- Contact Us
- Help
- Faqs
- Terms of use
- Privacy Policy

Get in Touch

- 150 ft. Ring Road, Nanavati Chowk, Rajkot.
- +91 76988 24501
- +91 87330 45581
- dbs.vdh1111@gmail.com
- divyrajmehta7698@gmail.com

Newsletter

Free Delivery on your first order!

Email Go

Follow Us on

[Facebook](#) [Twitter](#) [Google+](#)

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DV LED STORE

Hi, Bhavya Popat [Profile](#) [Logout](#) Cart (2)

[Home](#) [Products](#) [About Us](#) [Contact Us](#)

Get flat 10% Cashback

NEW STANDARD

[Shop Now](#)

Shop Now



new name
RS.555



test
RS.100



AB
RS.10000

 **Free Shipping**
on orders over ₹5000

 **Fast Delivery**
All over Gujarat

 **Big Choice**
of LED Lights

Quick Links

- [About Us](#)
- [Contact Us](#)
- [Help](#)
- [FAQs](#)
- [Terms of use](#)
- [Privacy Policy](#)

Get in Touch

-  150 ft. Ring Road, Nanavati Chowk, Rajkot.
-  +91 76988 24501
-  +91 87330 45581
-  dbs.vdh111@gmail.com
-  divyarajmehta7698@gmail.com

Newsletter

Free Delivery on your first order!

[Go](#)

Follow Us on





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DV LED STORE

The screenshot shows the homepage of DV LED STORE. At the top, there's a navigation bar with links for 'Profile', 'Logout', and a shopping cart icon with a '2' notification. Below the header is a banner featuring several LED light fixtures, including a bulb, a panel light, and a recessed light. The main content area has a sub-menu with 'HOME' and 'NEW NAME' options. The central part of the page displays a product listing for a 'new name' LED light, showing a tall, slim vertical light fixture. The listing includes price (Rs. 555), free delivery, availability (2993 units), shipping speed, and a bank offer. Below the listing are purchase options like '1 Year Manufacturer Warranty' and 'Net banking & Credit/ Debit/ ATM card', along with a quantity selector and an 'Add to Cart' button.



new name

Rs. 555 Free delivery

Available Stock: 2993

Shipping Speed to Delivery.

Bank Offer Extra 5% off* with HDFC Bank Buzz Credit Card T&C

1 Year Manufacturer Warranty

Net banking & Credit/ Debit/ ATM card

1



Free Shipping
on orders over ₹5000



Fast Delivery
All over Gujarat



Big Choice
of LED Lights

Quick Links

- [About Us](#)
- [Contact Us](#)
- [Help](#)
- [FAQs](#)
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- [dbs.vdh1111@gmail.com](#)
- [divyrajmehta7698@gmail.com](#)

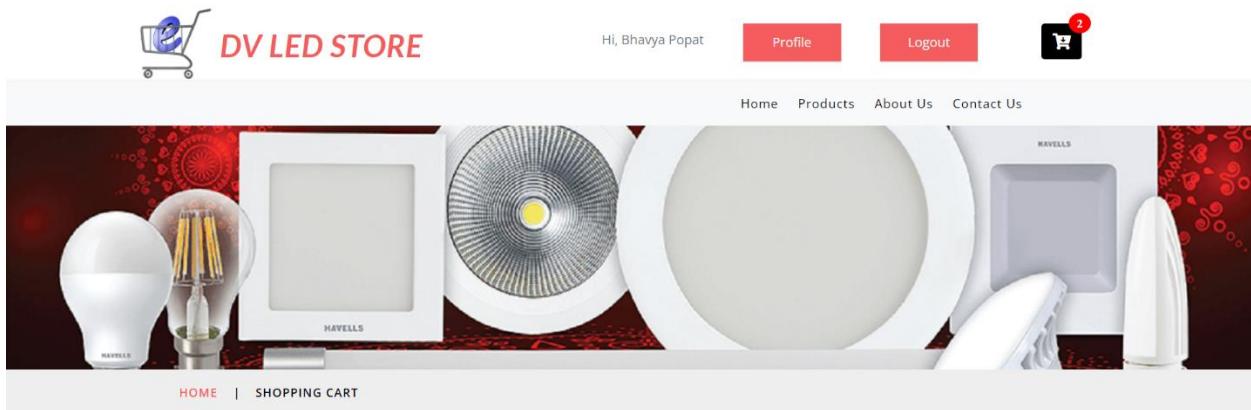
Newsletter

Free Delivery on your first order!

Follow Us on



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Shopping Cart

	new name	8	4440
	AB	1	10000



Free Shipping
on orders over ₹5000



Fast Delivery
All over Gujarat



Big Choice
of LED Lights

Quick Links

- [About Us](#)
- [Contact Us](#)
- [Help](#)
- [FAQs](#)
- [Terms of use](#)
- [Privacy Policy](#)

Get in Touch

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- dbs.vdh1111@gmail.com
- divyrajmehta7698@gmail.com

Newsletter

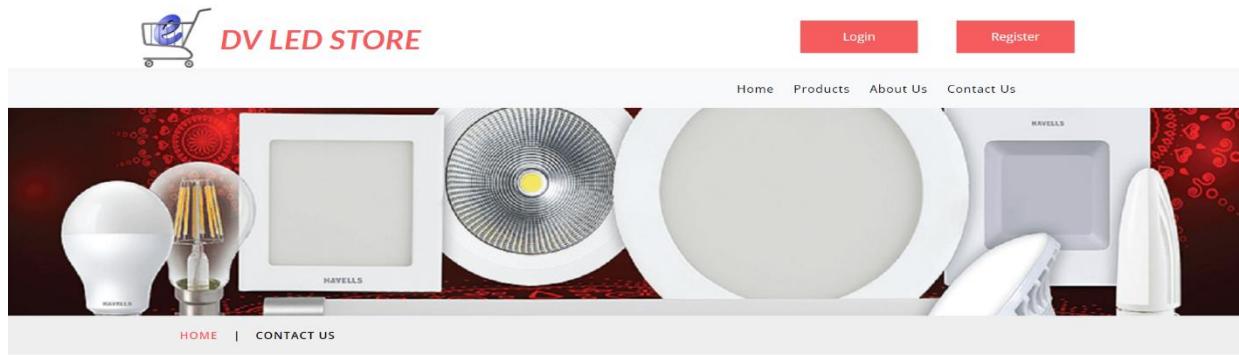
Free Delivery on your first order!

Go

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Contact Us



Address

150ft ring road rajkot
gujarat



Call Us

+91 76988 24501
+91 87330 45581



Email

divyrajmehta7698@gmail.com
vrundavadaliya@gmail.com

Name

E-mail

Message

Submit



Free Shipping
on orders over ₹5000



Fast Delivery
All over Gujarat



Big Choice
of LED Lights

Quick Links

- About Us
- Contact Us
- Help
- Faqs
- Terms of use
- Privacy Policy

Get in Touch

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- 📞 +91 76988 24501
- 📞 +91 87330 45581
- ✉️ dbs.vdh1111@gmail.com
- ✉️ divyrajmehta7698@gmail.com

Newsletter

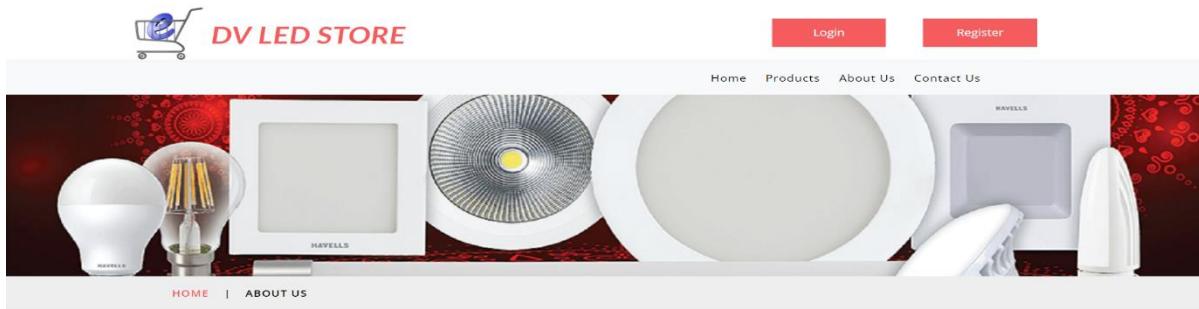
Free Delivery on your first order!

Go

Follow Us on



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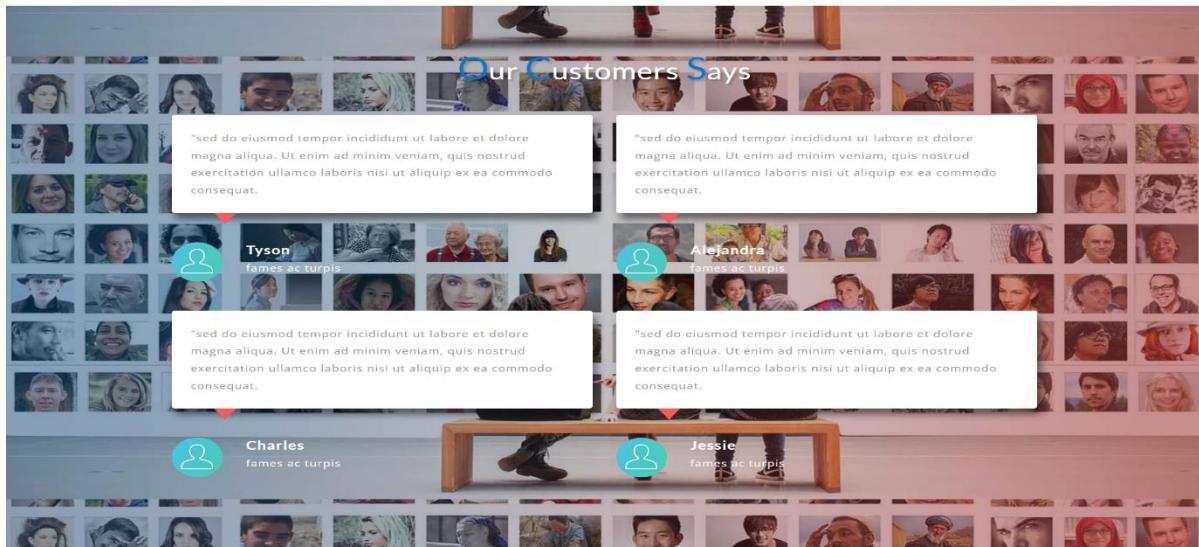


About Us

Welcome

consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat.

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Suspendisse porta erat sit amet eros sagittis, quis hendrerit libero aliquam. Fusce semper augue ac dolor efficitur, a pretium metus pellentesque.



Free Shipping
on orders over ₹5000



Fast Delivery
All over Gujarat



Big Choice
of LED Lights





DV LED STORE

Name

Date of Birth

Mobile No.

Email ID

City

Pin Code

Address

Password

Confirm Password

Register

Sign In

Email ID:

Password:

Remember me **Sign In**

[Back to home](#)

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Name

Date of Birth

Mobile No.

Email ID

City

Pin Code

Address

New Password

[Update Profile](#)

5.3. ADMIN SIDE SCREENSHOTS

The screenshot shows the 'Profile' section of the admin dashboard. The left sidebar includes links for Dashboard, Users, Products, Carts, Orders, Invoices, Gallery, Useful Pages (with 'Profile' selected), and Logout. The main content area has a green header bar with 'Wholesale Online Shop'. Below it, a navigation bar shows 'Home > Profile'. The profile section displays a placeholder user icon, the name 'Divyraj Mehta', and the title 'Administrator'. There are input fields for 'Name' (Divyraj Mehta), 'Email' (divyraj@gmail.com), and 'New Password' (placeholder 'Enter New Password here'). A blue 'UPDATE PROFILE' button is at the bottom. The footer contains the copyright notice: '© 2022 Wholesale Online Shop | All Rights Reserved. Designed by Divyraj Mehta and Vrunda Vadaliya'.

The screenshot shows the 'Add Product' section of the admin dashboard. The left sidebar is identical to the previous screenshot. The main content area has a green header bar with 'Wholesale Online Shop'. Below it, a navigation bar shows 'Home > Add Product'. The product addition form includes fields for 'Add Image' (with a 'Choose File' button and placeholder 'No file chosen'), 'Name', 'Price', and 'Stock'. A blue 'ADD PRODUCT' button is at the bottom. The footer contains the copyright notice: '© 2022 Wholesale Online Shop | All Rights Reserved. Designed by Divyraj Mehta and Vrunda Vadaliya'.

Wholesale Online Shop

Home > Products

Products

ID	NAME	PRICE	STOCK	IMAGE	UPDATE	DELETE
3	new name	555	2993		<button>UPDATE</button>	<button>DELETE</button>
4	test	100	996		<button>UPDATE</button>	<button>DELETE</button>
5	AB	10000	4999995		<button>UPDATE</button>	<button>DELETE</button>

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Wholesale Online Shop

Home > Update Product

Update Product

Update Image	<input type="file"/> Choose File No file chosen
Name	test
Price	100
stock	996

UPDATE PRODUCT

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The screenshot shows the 'Update Order' page of a web application. The left sidebar has a dark theme with white icons and text, listing: Dashboard, Users, Products, Carts, Orders, Invoices, Gallery, Useful Pages (with a dropdown arrow), Profile, and Logout. The main header is 'Wholesale Online Shop' in a green bar. The top right corner shows a user profile for 'Divyraj Mehta' (Administrator) with a dropdown arrow. Below the header, the breadcrumb navigation shows 'Home > Update Order'. The main content area is titled 'Update Order' and contains four input fields: 'CUSTOMER ID' (empty), 'PRODUCT ID' (empty), 'NUMBER OF PRODUCTS' (empty), and 'TOTAL PRICE' (empty). A blue 'UPDATE ORDER' button is centered below these fields. At the bottom of the page, a copyright notice reads: '© 2022 Wholesale Online Shop | All Rights Reserved. Designed by Divyraj Mehta and Vrunda Vadaliya'.

Wholesale Online Shop

Home > Update User

Update User

Name	Bhavya Popat
Date of Birth	08-06-2001
Mobile No.	6354546061
Email ID	bhavya@gmail.com
City	Rajkot
PIN Code	360005
Address	Rajkot, Gujarat.

UPDATE USER

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DV LED STORE

Wholesale Online Shop

Home > Users

ID	NAME	DATE OF BIRTH	MOBILE NO	EMAIL ID	CITY	PIN CODE	ADDRESS	UPDATE	DELETE
1	Bhavya Popat	08-06-2001	6354546061	bhavya@gmail.com	Rajkot	360005	Rajkot, Gujarat.	UPDATE	DELETE
3	Shahnawaz Bheda	29-09-2001	9558362840	shahnawaz@gmail.com	Jamnagar	361002	Jamnagar, Gujarat.	UPDATE	DELETE

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Wholesale Online Shop

Home > Gallery

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Wholesale Online Shop

Divyraj Mehta
Administrator

[Home](#) >

Users
24,420

Orders
15,520

Products
12,430

Invoices
14,430

STATISTICS

DAILY
MONTHLY
YEARLY

A stacked area chart showing monthly statistics. The y-axis ranges from 0 to 20,000. The chart shows three main data series represented by different colors (light blue, light green, light pink) stacked on top of each other. The total value starts around 5,000 in March 2014, peaks at approximately 15,000 in July 2014, dips to about 8,000 in November 2014, rises to a peak of over 15,000 in January 2015, dips again in May 2015, and ends at approximately 10,000 in May 2016.

August 2016 \$21,235

REPORT

ID	NAME	AMOUNT
2356	dummy text	6,200.00
4589	Lorem Ipsum	6,500.00
3269	specimen book	6,800.00
5126	Letraset sheets	7,200.00
7425	PageMaker	5,900.00

Contacts

	Bhavya bhavyajustchill@gmail.com	Ceo
	Ipsum ipsum@hotmail.com	Director
	Unknown unknown@gmail.com	Manager
	Specimen specimen@hotmail.com	Assistant

Activities

- 5 mins ago Williams has just joined Project X
- 25 mins ago Jane has sent a request for access
- 40 mins ago Kate added you to her team
- 45 minutes ago John has finished his task
- 55 mins ago Jim shared a folder with you

Notifications Panel

- New Comment 4 minutes ago
- 3 New Followers 12 minutes ago
- Message Sent 27 minutes ago
- New Task 43 minutes ago
- Server Rebooted 11:32 AM
- Server Crashed! 11:13 AM
- New Task 45 minutes ago

S.NO	PRODUCT	STATUS	PROGRESS
1	Lorem ipsum	In progress	85%
2	Aliquam	Now	35%
3	Lorem ipsum	Overdue	40%
4	Aliquam	Out of stock	100%
5	Lorem ipsum	In progress	10%
6	Aliquam	Now	30%

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5.4. TEST CASES OR SECURITY FEATURES

For Authentication, the package Laravel/UI is used.

- Multi Authentication is also implemented, meaning both the roles (Admin and User) have their own tables, guard, providers, middleware and Authentication Routes.
- Both the roles can simultaneously Login and Function at the same time, and Logging out of one role doesn't affect the other.
- Because of the usage of default Authentication via Laravel/UI, the passwords stored in both Admins as well as Users table are stored in Encrypted format, generated by Hash::make() method. Hence, even the Admin can't retrieve the Passwords of other users in plain text. Even the logged in user cannot retrieve his/her own password after logging in.

5.5. PROPOSED SYSTEMS (FUTURE ENHANCEMENTS)

Admin should be able to change profile photo as well as name.

- Admin Registration (multiple Admins).
- Admin should be able to add a normal user (like Donations and Slum Areas).
- Change all the Admin Delete buttons' requests from GET to POST for more secure deletion. (Currently requests are protected by Guard and Middleware so a normal user cannot delete records, but this will add an extra layer of security).

Add Pagination in both Admin and User Sides.

- Users should be able to add profile pictures.
- Users are able to “Delete” Donation History (Still visible for Admin, only invisible to User).
- Expand scope of the application from City level to State level and eventually to National and Global levels.
- Make a mobile port (Android/iOS) of this web application.

6. TESTING

6.1. TESTING PLAN

A test plan decides the strategy that will be used to verify and ensure that a product or system meets its design specifications and other requirements, as well as detecting security risks and errors through unintended interaction between user and the system.

- Types of testing are: Unit Testing, Module Testing, Subsystem Testing, System Testing and Acceptance Testing.
- For this project, I planned Unit Testing for modules that were large (for example managing donations on admin side), and planned Module Testing for modules that were small (for example edit profile on both admin and user side).
- After all the modules were developed, I planned System Testing for the Complete System of Modules.

6.2. TESTING STRATEGY

- As per the Testing plan, I applied Unit and Module testing for Large and Small Modules respectively.
- This plan worked and I successfully fixed many errors at unit as well as level.

However, I also caught a bug at System Level testing, which was related to Login on User Side. It was redirecting to intended route after

authentication, but sometimes, if Admin had been logged in already, the user logging in would be redirected to Admin Dashboard (because of intended URL). So, I fixed it by simply hardcoding the successful login function created by Laravel/UI package

7. INSTALLATION

Download and Install XAMPP 7.3.1 or higher.

- Download and Install Composer.
- Download Project with Database and Extract it.
- Turn on Apache and MySQL in XAMPP.
- Import “foodwastagereduction” database by creating an empty database with the same name and importing the database file in phpMyAdmin.
- In Project Source Code Directory, open a new CMD.
- Run the project with the command “php artisan serve” and opening a browser with localhost:8000/ as URL.

8. LEARNING DURING PROJECT WORK

- Blade Templates:
 - o I got to learn about advanced concepts of Blade Templates in Laravel, like how they work, directives, Routes that trigger them and so on.
 - o I also learned how to structure directory when there are multiple templates that need to be converted from HTML to Laravel.
 - o I also learned that {{ }} can be used to display data and {!! !!} can be used to display data with HTML effect in Blade files.
 - o I also learned directives like @if and @foreach in Blade pages.
- Authentication:
 - o I learned how to install packages through Laravel/UI.
 - o I also learned and implemented Multi Auth via Laravel/UI.

Database Connectivity:

- o I learned the basics of ENV file and how to connect to Database via settings inside the ENV file.
- o I learned how migrations work, creating migrations, rolling back, and methods down() and up() in migration files.
- o I also learned how to make model and perform CRUD operations on a table using it.
- o I also learned how to set eloquent relationships (hasMany and belongsTo) in model for retrieving data for foreign keys.

9. ABOUT TOOLS & TECHNOLOGY

Laravel:

- o Laravel is a web application framework with expressive, elegant syntax. We believe development must be an enjoyable, creative experience to be truly fulfilling. Laravel attempts to take the pain out of development by easing common tasks used in the majority of web projects, such as authentication, routing, sessions, and caching.
- o Laravel aims to make the development process a pleasing one for the developer without sacrificing application functionality. Happy developers make the best code. To this end, we've attempted to combine the very best of what we have seen in other web frameworks, including frameworks implemented in other languages, such as Ruby on Rails, ASP.NET MVC, and Sinatra.
- o Laravel is accessible, yet powerful, providing powerful tools needed for large, robust applications. A superb inversion of control container, expressive migration system, and tightly integrated unit testing support give you the tools you need to build any application with which you are tasked.

MySQL:

- o MySQL is a powerful database. It's very good and free of charge. Many developers in the world selected MySQL for backend their website.

- o The MySQL® database has become the world's most popular open source database because of its consistent fast performance, high reliability and ease of use. It's used in more than 6 million installations ranging from large corporations to specialized embedded applications on every continent in the world.
- o Not only is MySQL the world's most popular open source database, it's also become the database of choice for a new generation of applications built on the LAMP stack (Linux, Apache, MySQL, PHP / Perl / Python).
- o MySQL runs on more than 20 platforms including Linux, Windows, OS/X, HP-UX, AIX, Netware, giving you the kind of flexibility that puts you in control.

XAMPP:

- o XAMPP is a small and light apache distribution containing the most common web development technologies in a single package. Its contents, small size, and portability make it the ideal tool for developing and testing applications in PHP and MySQL

X: “Cross” as in its mean to be read as cross-platform because it can run on many different operating systems which are Windows, Mac OS X, Linux and Solaris.

A: Apache HTTP Server

M: MySQL

P: PHP

P: Perl

- o XAMPP requires only one zip, tar, 7z, or exe file to be downloaded and run, and little or no configuration of the various components that make up the web server is required. XAMPP is regularly updated to incorporate the latest releases of Apache/MySQL/PHP and Perl. It also comes with a number of other modules including OpenSSL and phpMyAdmin.

o Advantages of XAMPP:

- You can start and stop the whole webserver + database stack with one command.

- XAMPP is portable so you can carry it around on a thumb drive.
- The security settings are strict by default, nobody but you will be able to access the web server.
- PHP error reporting is enabled by default, which helps when debugging scripts.

VS Code:

o Visual Studio Code is a lightweight but powerful source code editor which runs on your desktop and is available for Windows, MacOS and Linux. It comes with built-in support for JavaScript, TypeScript and Node.js and has a rich ecosystem of extensions for other languages and runtimes (such as C++, C#, Java, Python, PHP, Go, .NET).

10. GLOSSARY

Abbreviation	Full Form
SQL	Create, Read, Update, Delete
php	Hypertext Preprocessor / Personal Home Page
http	Hyper Text Transfer Protocol
url	Uniform Resource Locator
CSS	Cascading Style Sheet
XAMPP	Cross-Platform Apache MySQL PHP Perl

11. BIBLIOGRAPHY

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