



Star Gadgets

An ecommerce solution for most of your electronic needs.

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COMP453 Database Programming

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Loyola University

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Project Overview

- Star Gadgets is a B2C(Business to Customer) type of ecommerce solution that involves customer gathering goods, collecting information on the goods and receiving these products over an electronic network. This type of eCommerce is second largest and earliest form of ecommerce.
- Star gadget specializes in online retail of electronics such as mobiles,laptops,tv,computers etc. It enables users to easily buy electronics over digital media.
- The system allows user to shop year around 24/7 without having to worry about anything.
- User can select products from various categories and different vendors.



Project Overview(Contd.)

- B2C e-commerce transactions are not strictly bound to retail shopping. Many customers purchase health insurance, auto insurance and similar products online.
- Star gadgets is just a small part of a very large system/domain. Star gadgets strictly belongs to the retail domain.
- Retailers are part of an integrated system called the supply-chain which is again the management of the flow of goods and services, that involves the movement and storage of raw materials, of work-in-process inventory, and of finished goods from point of origin to point of consumption.



Our Mission

“When we successfully create a connection with the customers and employees, many of them might stay loyal for life -- and have the chance to increase the overall profitability while delivering maximum customer satisfaction.”

Stargadgets is just a small initiative towards this belief.



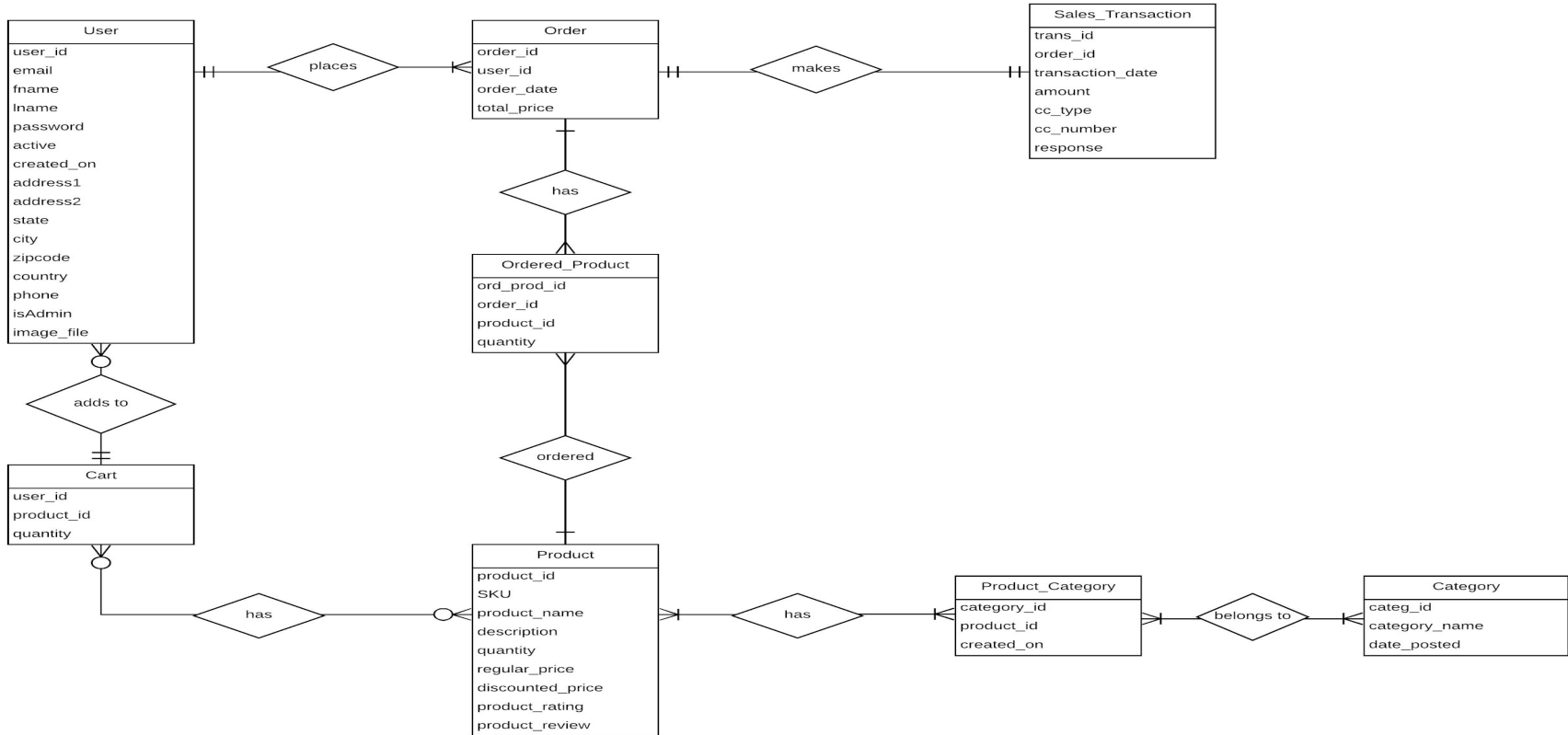
Targeted Users

The target users for this project are the customers who are in the online retail market to buy electronic products such as tv, computer, phones with quality and best services.

The customers will largely be using the application for purchase purposes but are always able to browse through the products and get the relevant information without actually having to make a purchase.

Another user for the application would be the admin who will do day-to-day administration activities such as adding products, blacklisting users or have a look at the statistical analysis of the products sold.

Database design- ER Diagram 2.0





Functional Requirements



Project Scope

Design Goals: The application consists of mainly 3 flows -

Flow #1 -

View Home Page

Browse products

View Product Details

Become a Member through Registration process

Login to registered account

Login to site

Add to cart

Home Page



Shop by Category:

- [Watches](#)
- [Computers](#)
- [TV, Appliances, Electronics](#)
- [Mobiles](#)

Items



\$ 10490.0



\$ 4999.0



\$ 4999.0



\$ 4999.0



\$ 499.0



\$ 299.0



\$ 599.0



\$ 999.0



\$ 499.0



\$ 999.0

User Login

Email:

Password:

[Register here](#)

User Registration/ Sign Up

Email:

Password:

Confirm Password:

First Name:

Last Name:

Address Line 1:

Address Line 2:

USA

California

Los Angeles

✓ -- Select Zip--

90001

90002

90003

90004

3126192978

[Login here](#)

User Registration - Empty Field

The screenshot shows a web browser window with the address bar displaying `127.0.0.1:5000/registrationForm`. The page contains a registration form with the following fields and values:

- Email: `nikhil.agrw07@gmailasc`
- Password: `.....`
- Confirm Password: `.....`
- First Name: `Nikhil`
- Last Name: `Agrawal`
- Address Line 1: `Flat No 1507 , Sobha Ma`
- Address Line 2: (Empty field)
- Country: `India`
- State: `Assam`
- City: `Dispur`
- Pincode: `781005`
- Phone Number: `8861855544`

A validation error message, "Please fill out this field.", is displayed next to the empty Address Line 2 field. At the bottom of the form, there is a "Register" button and a link labeled "Login here".

User Registration - Password don't match

Email:

Password:

Confirm Password:

First Name:

Last Name:

Address Line 1:

Address Line 2:

Phone Number:

[Login here](#)

127.0.0.1:5000 says


Passwords do not match


OK

User Logged Home Page

Search

Hello,
Nikhil


 [CART 8](#)




Shop by Category:

- [Watches](#)
- [Computers](#)
- [TV, Appliances, Electronics](#)
- [Mobiles](#)


Items




\$ 10490.0




\$ 4999.0




\$ 4999.0




\$ 4999.0




\$ 499.0




\$ 299.0




\$ 599.0



\$ 999.0



\$ 499.0



\$ 999.0

Signout/My Profile/My Order

Chrome File Edit View History Bookmarks People Window Help 100% Wed 12 Dec 8:28 PM

BFS V Lamb Panop LUC S Himar COMF Projec Fall 2 Dial9 dsyer [nikhil] My Di Star C nikhil St x

127.0.0.1:5000

Search

Hello, Nikhil

CART 9

Your orders











Your profile

Sign Out

Shop by Category:

- [Watches](#)
- [Computers](#)
- [TV, Appliances, Electronics](#)
- [Mobiles](#)

Items


					
\$ 10490.0	\$ 4999.0	\$ 4999.0	\$ 4999.0	\$ 499.0	\$ 299.0
					
\$ 599.0	\$ 999.0	\$ 499.0	\$ 999.0		


Taskbar: Chrome, File Explorer, Edge, Word, PowerPoint, Outlook, WhatsApp, Telegram, Signal, Messenger, Zoom, Teams, OneDrive, OneNote, OneMail, OneCalendar, OneTasks, OneNotes, OneToDo, OneDrive, OneNote, OneMail, OneCalendar, OneTasks, OneNotes, OneToDo

Category Browsing Page


Search

Hello,
Nikhil


 [CART 8](#)




Showing all products of Category Mobiles:




\$ 499.0



\$ 499.0



\$ 499.0



\$ 350.0

Product Landing Page

Search

Hello,
Nikhil

 [CART 8](#)



Huawei



Details

Name	Huawei
Regular Price	\$ 350.0
Discounted Price	\$ 999.0
Stock	1

Description


Huawei


[Add to Cart](#)

Product Added in Cart

Search

Hello,
Nikhil


 [CART 9](#)




Shop by Category:

- [Watches](#)
- [Computers](#)
- [TV, Appliances, Electronics](#)
- [Mobiles](#)


Items




\$ 10490.0




\$ 4999.0




\$ 4999.0




\$ 4999.0




\$ 499.0




\$ 299.0




\$ 599.0



\$ 999.0



\$ 499.0



\$ 999.0



Cart Panel (Flow #2):-

View cart product

Remove Product from cart

Checkout

Make Payment

Order Details


Text And Email Confirmation


Visualization - python graphs

Products currently in cart


Search

Hello,
akanksha

 CART 1



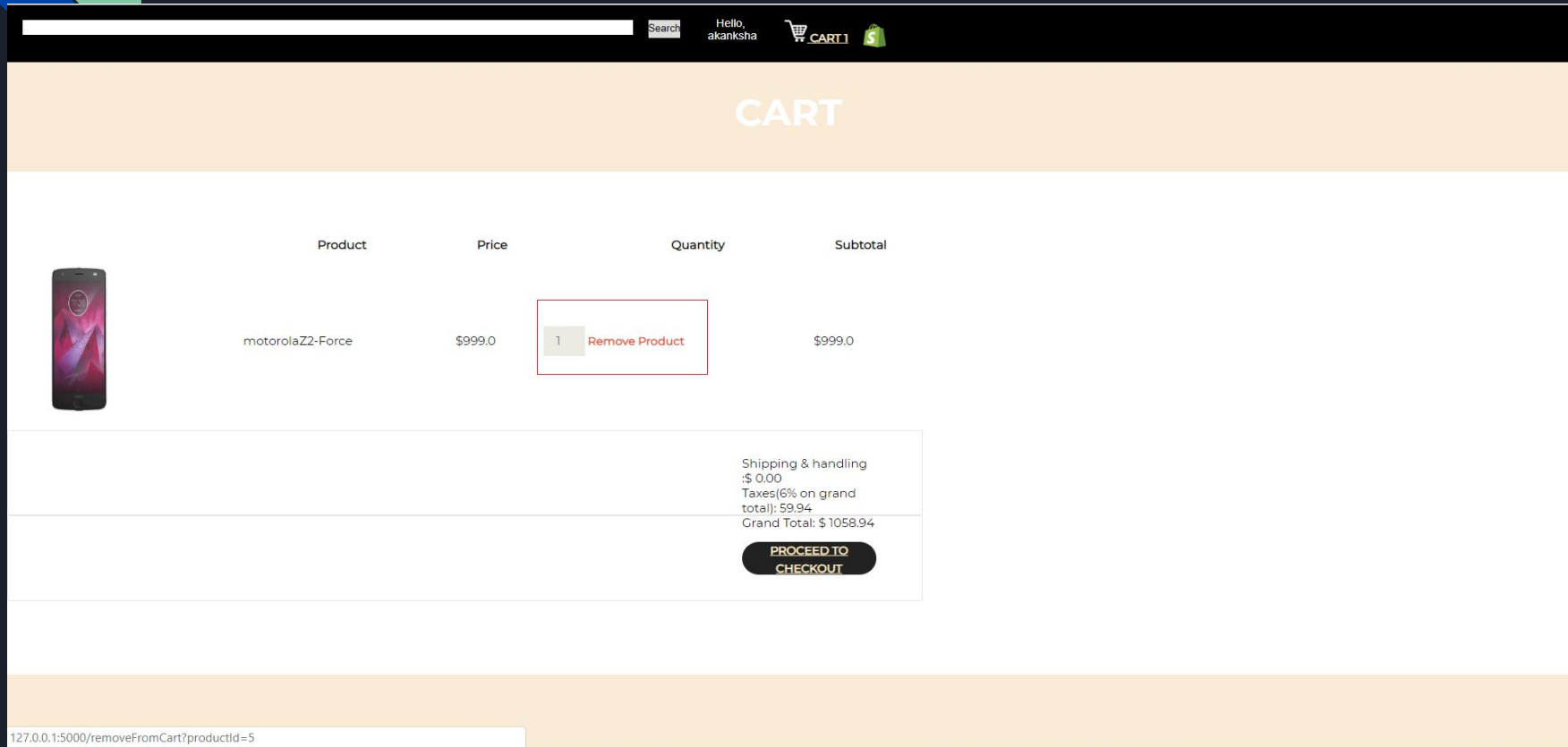
CART

Product	Price	Quantity	Subtotal
	motorolaZ2-Force	<div>1 Remove Product</div>	\$999.0

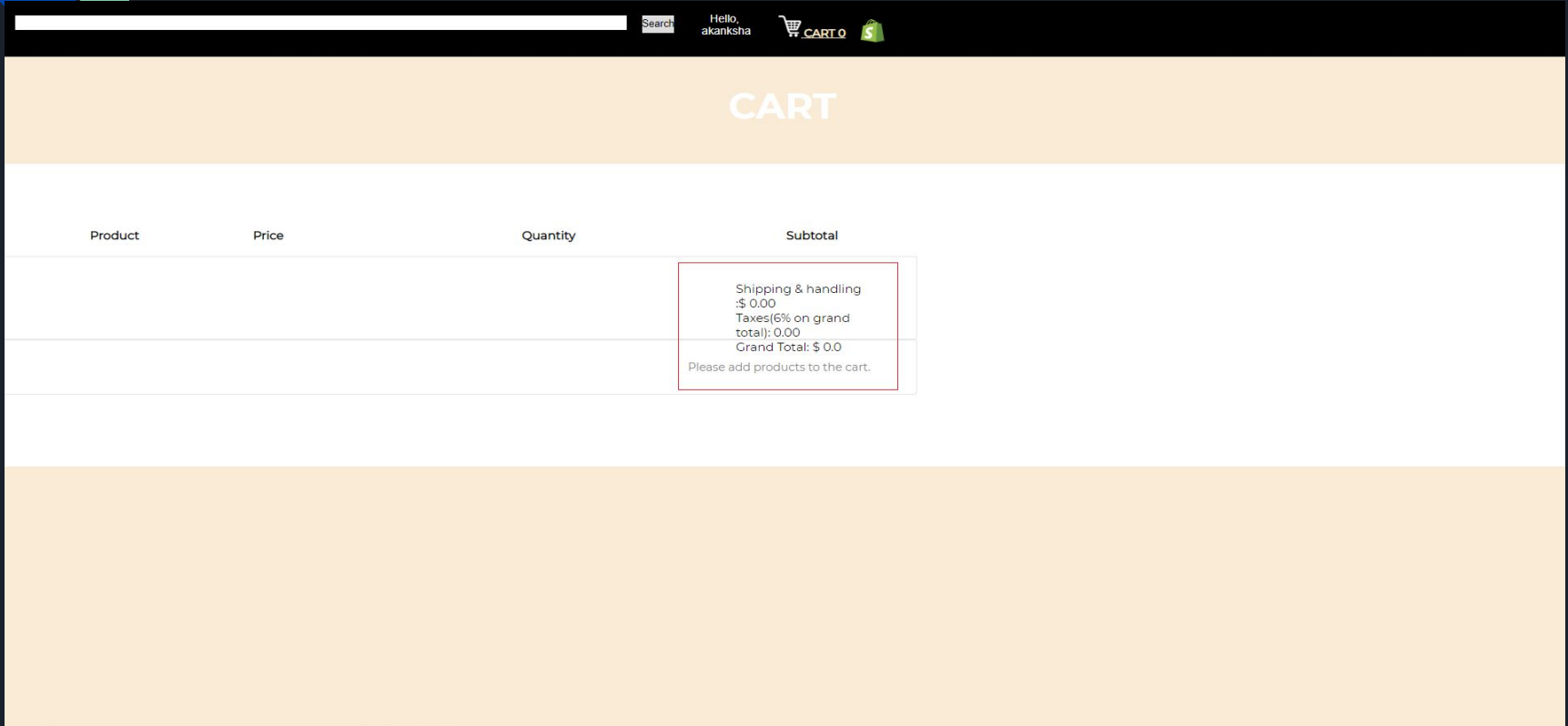
Shipping & handling
:\$ 0.00
Taxes(6% on grand
total): \$9.94
Grand Total: \$ 1058.94

PROCEED TO
CHECKOUT

On hovering and clicking remove product highlights





Products Removed /Empty Cart



Added 2 products and verifying Grand Total User clicks on proceed to checkout

CART

Product	Price	Quantity	Subtotal	
	SamsungUHD	\$499.0	1 Remove Product	\$499.0
	motorolaZ2-Force	\$999.0	1 Remove Product	\$999.0

Shipping & handling
:\$ 0.00
Taxes(6% on grand
total): 89.88
Grand Total: \$ 1587.88

[PROCEED TO
CHECKOUT](#)

Various Validations on page

Apps

Sell a Cow Furniture

Dropbox Business

Erin Stern's Elite Body

127.0.0.1:5000 says
CVV you have entered is not valid!
OK

Billing Address

Full Name

akanksha

Email

akankshanegi1@gmail.com

Mobile Operator

TMobile

AT&T

Phone

8478486054

Address

2500 awesome road

USA

State

California

City

Los Angeles

Zip

90001

Shipping address same as billing

MAKE PAYMENT

Payment

Accepted Cards

VISA

MasterCard

Discover

Amex

Apple Pay

Name on Card

akanksha negi

Credit card number

2563256325632563

Exp Month

February

Exp Year

2019

CVV

25632

Cart

SamsungUHD x1

\$SamsungUHD.jpg

motorolaZZ-Force x1

\$motorolaZZ-Force.png

Total

\$1587.88

Search

Sign In



CHECKOUT

Billing Address

Full Name

akanksha

Email

akankshanegi1

Please include an '@' in the email address. 'akankshanegi1' is missing an '@'.

T-Mobile AT&T

Phone

8478486054

Address

2560 awesome road

USA

State

California

City

Los Angeles

Zip

90001

Shipping address same as billing

MAKE PAYMENT

Payment

Accepted Cards



Name on Card

akanksha negi

Credit card number

25632563256325

Exp Month

Feburary

Exp Year

2019

CVV

2563

Cart

SamsungUHD x1

\$SamsungUHD.jpg

motorolaZ2-Force x1

\$motorolaZ2-Force.png

Total

\$ 1587.88

127.0.0.1:5000 says

Credit card number you have entered is not valid,Please enter 16 digit valid number!

OK

Billing Address

 Full Name

akanksha

 Email

akankshanegi1@gmail.com

Mobile Operator

☒ TMobile ☐ AT&T

Phone

8478486054

 Address

2560 awesome road

USA

State

California

 City

Los Angeles

Zip

90001

☒ Shipping address same as billing

Payment

Accepted Cards



Name on Card

akanksha negi

Credit card number

25632563256325

Exp Month

Feburary

Exp Year


2019

CVV

2563

MAKE PAYMENT

Product currently buying and various dropdowns

[Search](#) [Sign In](#) [CART](#) 

CHECKOUT

Billing Address
Full Name

Email

Mobile Operator
☐ TMobile ☐ AT&T

Phone





Address

State

City

Zip

☒ Shipping address same as billing

Payment
Accepted Cards
   

Name on Card

Credit card number

Exp Month


Exp Year

CVV

Cart

motorolaZ2-Force	x1	\$999.0
Apple Watch	x1	\$10490.0
Total		\$ 12178.34

MAKE PAYMENT



When user enters correct details and clicks on make payment page→ Orderdetails

akanksha

Success - your order is confirmed!

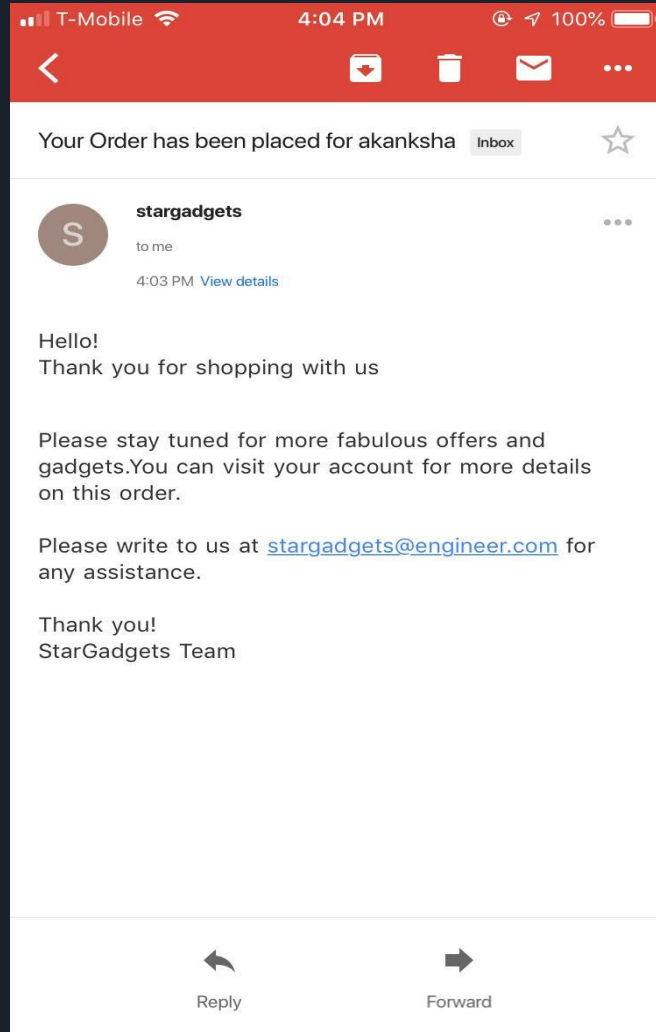
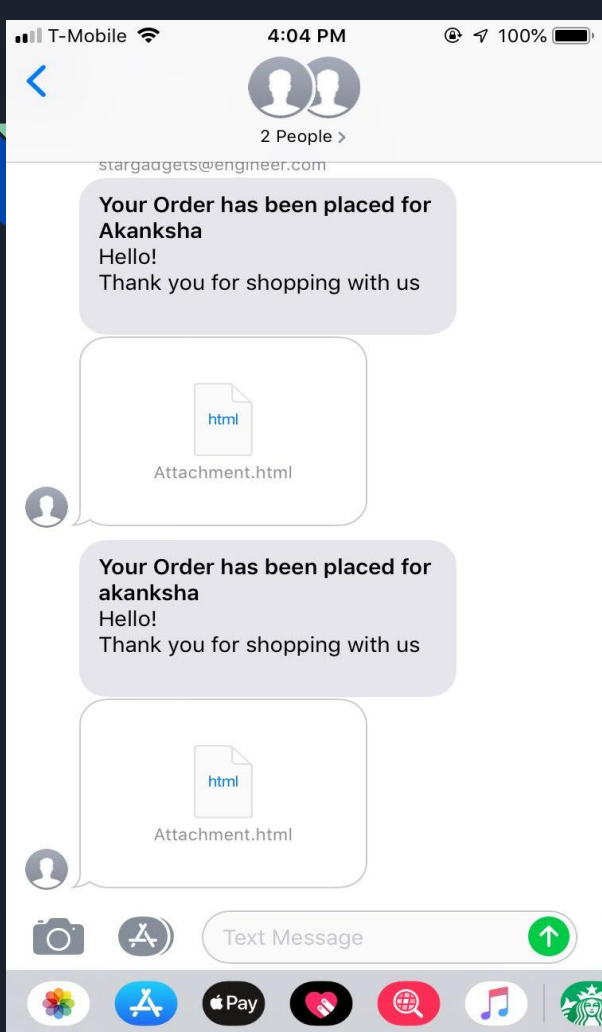
Order number # :129

Shipping Address:

akanksha

2560 awesome road





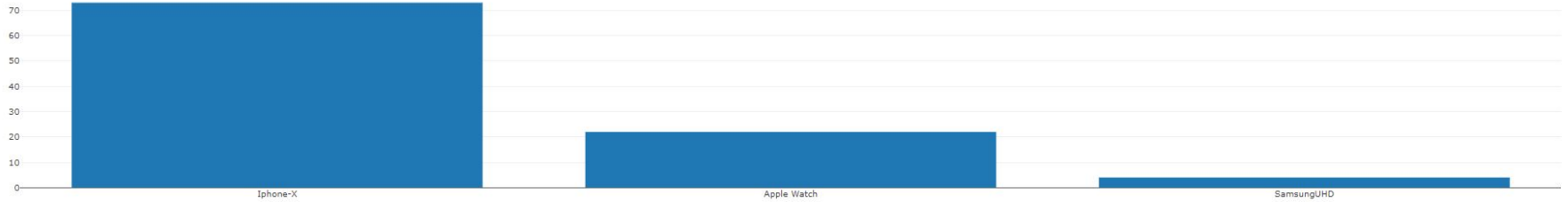
Email and text confirmation are delivered to user!

See Trends-Graphs!

Top 3 most selling products

TOP 3 MOST SELLING PRODUCTS

Top 3 least selling products



[Export to plot.ly »](#)

Top 3 least selling products





Admin Panel (Flow #3)

Categories

Create, Read, Update, Delete

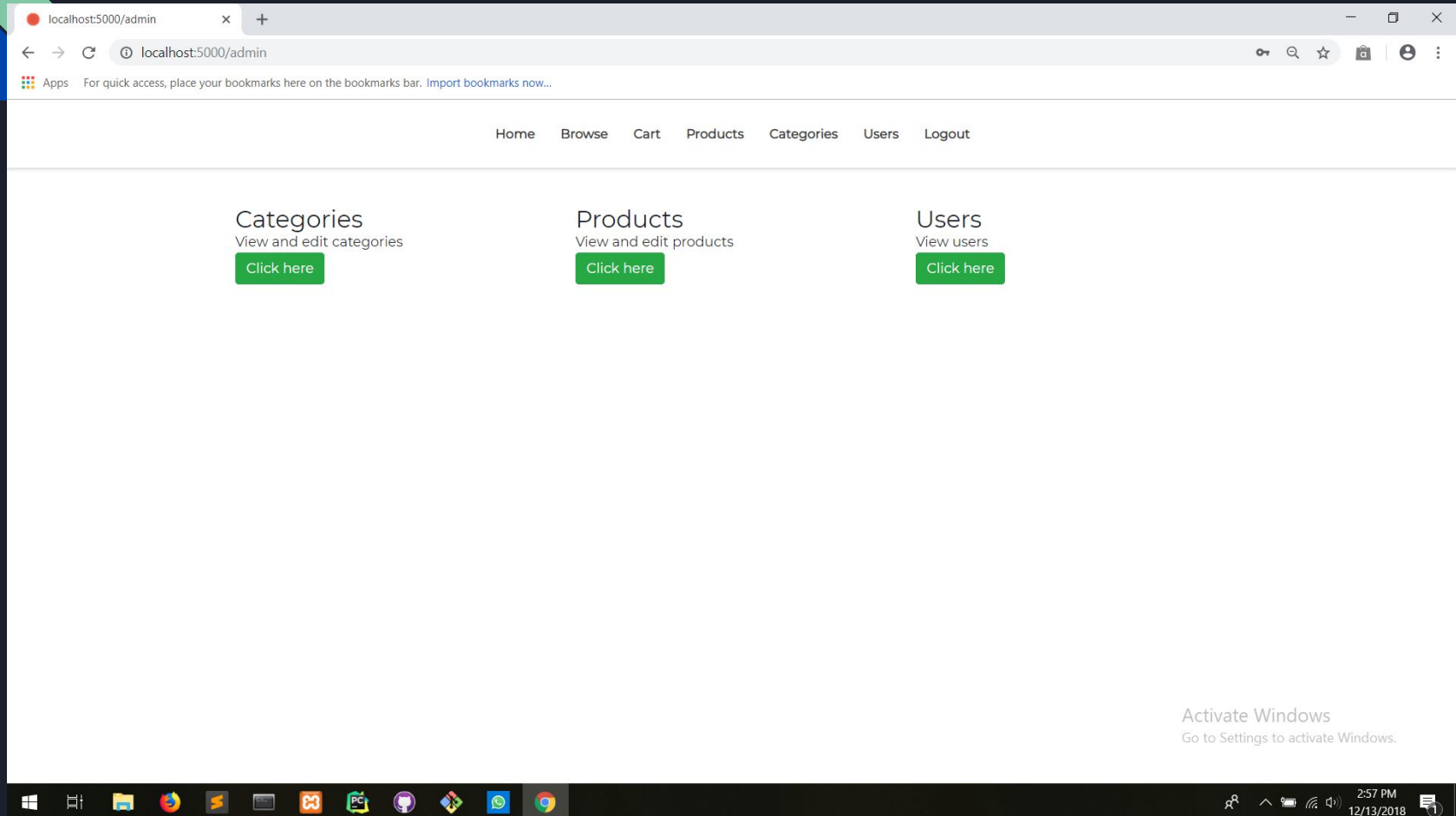
Products

Create, Read, Update, Delete

Users

View users & show the number of orders that they have placed

Admin homepage





List of categories

Category Name	Number of products	Actions
Mobiles	10	View
TV, Appliances, Electronics	3	View
Computers	1	View
Watches	1	View

Add, update, delete categories

Category Name

Save

Category Name

Save

Deleting
category

Are you sure you want to
delete this category?

Close

Delete



List of products

SKU	Name	Description	Regular Price	Discounted Price	Quantity	View
123	Iphone-X	Iphone-X	499.0	499.0	3	View
234	SamsungUHD	SAMSUNG UN43NU6900 43" CLASS/42.5"...	499.0	499.0	1	View
456	SamsungS8	SamsungS8	499.0	459.0	1	View
678	motorolaZ2-Force	motorolaZ2-Force	499.0	496.0	2	View
8910	SamsungCurved	65" Class Q8C Curved QLED 4K TV	499.0	359.0	1	View
101112	Macbook	Macbook	499.0	451.0	1	View

Add and update product

Product Image
Browse... No file selected.

Category:

Product SKU:

Product Name:

Product Description:

Product Price:

Product Quantity:

Save

Product Image
Browse... No file selected.

Category:

Product SKU:

Product Name:

Product Description:

Product Price:

Product Quantity:

Save

View product (admin)

SamsungUHD



Details

Name SamsungUHD
Regular Price \$ 499.0
Discounted Price\$ 499.0
Stock 1

Description

SAMSUNG UN43NU6900 43" CLASS/42.5" DIAG 4K UHD MR120 SMART TV HDR 10+ PUR COLOR

[Update](#)[Delete](#)



List of users

Name	Email	Status	City	State	# of orders
Nikhil Agrawal	nikhil.agrw107@gmail.com	Active	Chicago	IL	0
User2 LastName2	nikhil.agrw1071@gmail.com	Active	CHICAGO	Illinois	0
Shend Vishi	vishi.shend@gmail.com	Active	Los Angeles	California	0
Shend Vishi	svishi@luc.edu	Inactive	Los Angeles	California	0



Challenges/ Obstacles

1. Text confirmation to mobile phone number

Tried 3 different ways to implement this, but only succeeded with one:-

First one was with third party library that is “TWILIO”, I wrote code and debugged and debugged only to realise that trial membership doesn't really allow us to send actual messages and only test to some registered number. So, in order to use this we would have to buy their product

Second, I tried “TextMagic”. No real magic there, lots of unknown libraries that weren't there in anaconda, so in order to use this we would have to incorporate the library in our project. That would make it messy.

Lastly the saviour, a hack. I used “SMStoEmail” gateway to send messages using smtplib which is really pretty cool with a downside, message sender is an email address. Nonetheless does the job.



Challenges/ Obstacles 2

1. Setting Up/Configuring flask-SQLAlchemy ORM along with RAW MYSQL DB connection within same project
2. Defining flask session at per user login level instead of overall level and changing it's default value
3. Loading dependent (parent-child related) javascript values on user registration page (still not able to figure on how to read values directly from DB in javascript files)



Out Of Scope/Future Scope

An ecommerce database is a vast database where in many areas play important role such as delivery,shipment,vendors etc. Hence,in this ever evolving world that we live in there is always scope for improvements and adding more features to any application.


Our app is no different, in fact we think it can do so much more but we tried our best in whatever the time permitted us to.

One of these enhancements that we envisioned was that of adding the ability to use coupons at checkout which everyone loves these days. We created a schema for it but unfortunately because of time limitations we weren't able to implement it.

[illegible]

Product blacklisting/Unavailability

37					
38	Product				
39	Product_id	int	not null	A_I	Product id
40	SKU	varchar	not null		Product unique number.
41	Product_name	varchar	not null		Product name
42	description	text	not null		about the Product to help user understand.
43	Product_status_id	int	not null		available OR out of stock.
44	Regular_Price	numeric	default 0.00		listed price
45	Discounted_Price	numeric	default 0.00		discounted special
46	Product Ratings	numerc			
47	isAvailable	boolean			when admin removes any products this is set to true
48	Product_Reviews	text			
49	constraint pk_Product primary key (prod_id)				
50					



Maintaining multiple level of hierarchy in organization

<u>Role</u>				
role_id	int	not null	Auto Increment	Unique Role id
role_type	varchar	not null		Admin or user
constraint pk_Role primary key (id)				



Non-Functional Requirement



Non Functional Requirements for website

Reliability/Availability

The system has to be online 24 hours a day, 7 days a week. There is no place for an extended downtime.

Security

There has to be clearly defined roles of the users. These roles are 'customer' and 'administrator'.

Usability

The user interface of the system has to be very user friendly. The application works best in Google Chrome.

Integrity

The system must be able to protect and preserve transactions.

Version Control System



Git -

<https://github.com/nikhilagrwl07/ecommerce-flask-python>

Feature Branch Technique

<> Code

🔔 Issues 0

🔗 Pull requests 0

📁 Projects 0

📖 Wiki

📊 Insights

⚙️ Settings

Overview

Yours

Active

Stale

All branches

Search branches...

Default branch

master Updated 10 hours ago by akankshaneg

Default

Change default branch

Your branches

DB-Queries Updated 20 hours ago by nikhilagrwl07

20 | 0

#16

Merged



homeLink Updated 3 days ago by nikhilagrwl07

26 | 0

#13

Merged



userprofile Updated 7 days ago by nikhilagrwl07

36 | 0

#9

Merged



flow1 Updated 10 days ago by nikhilagrwl07

38 | 0

#8

Merged



DBtable-v2.0.0 Updated 13 days ago by nikhilagrwl07

47 | 0

#5

Merged



View more of your branches >

Active branches

admin-flow-1 Updated 10 hours ago by ShendVishi

5 | 0

#20

Merged



DB-Queries Updated 20 hours ago by nikhilagrwl07

20 | 0

#16

Merged



akankshaneg-patch-1 Updated 2 days ago by akankshaneg

21 | 0

#14

Merged



homeLink Updated 3 days ago by nikhilagrwl07

26 | 0

#13

Merged



flow-admin Updated 7 days ago by ShendVishi

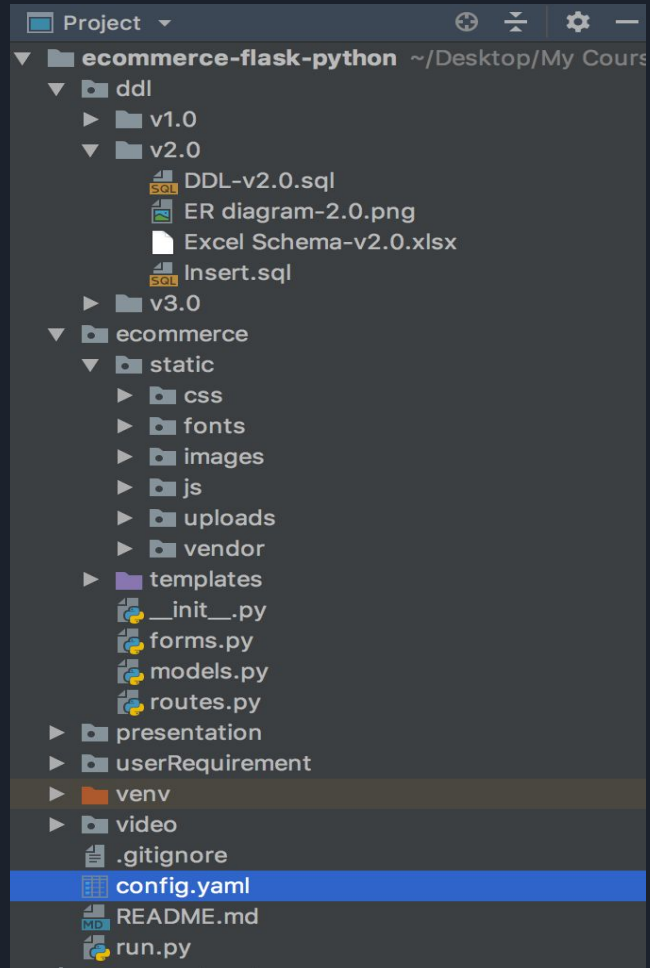
37 | 2

New pull request




View more active branches >




Project Structure



Configurations

config.yaml

 **nikhilagrwl07 / ecommerce-flask-python**


 Unwatch ▾ **3**  Star **0**  Fork **3**

[↔ Code](#) [! Issues 0](#) [🔗 Pull requests 0](#) [📁 Projects 0](#) [📖 Wiki](#) [📊 Insights](#) [⚙ Settings](#)

Branch: master ▾




ecommerce-flask-python / config.yaml

Find file Copy path

 **nikhilagrwl07** changes in README.md + config changes 2565ffc 13 hours ago

1 contributor

5 lines (5 sloc) | 125 Bytes

Raw Blame History   

```
1  mysql_host: 'localhost'
2  mysql_user: 'root'
3  # Enter your password in field below
4  mysql_password: '12345'
5  mysql_db: 'ecommerce'
```



Thank You