Deliverable 3-Project phase 1 Report
For
DEFINING AND PREDICTING THE SUCCESS OF B2B SALES

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DELIVERABLE-3

3.

A) Requirements:

The web application mainly focuses on three modules namely, Admin, User and Seller.
Below are the major features implemented in this web application.

- i)   UI - HOME PAGE
- ii)   UI-USER REGISTRATION
- iii)   UI-SELLER REGISTRATION

- iv)   UI – USER LOGIN
- v)   UI-SELLER LOGIN
- vi)   UI-ADMIN LOGIN

- vii)   DATA MODEL CREATION

i)   User Interface for Home page:

- When we open the home page we will have three navigation links namely USER, SELLER and ADMIN.

ii)   User Interface for User Registration:
- The user registration page helps the users to create an account.
- To create an account the user, need to provide their details such as username, Login ID, Password, Email and Contact number.
- After providing all the information the user needs to click on the register button.
- The provided details are inserted into the database in user table.

iii)   User Interface for Seller Registration:
- The seller registration page helps the sellers to create an account and register.
- To create an account the seller, need to provide details like Seller name, Login ID, Password, Email and Contact Number.
- After providing all the information the seller needs to click on register button.
- The provided details are inserted into the database in seller table.

iv) **User Interface for User Login:**
   - The user login page helps the user to login into their account.
   - The user needs to provide user id and password.
   - The user login page also has a link for user registration.

v) **User Interface for Seller Login:**
   - The seller login page helps the seller to login into their account.
   - The seller needs to provide Seller ID and Password given while registration.
   - The seller login page also has a link for seller registration.
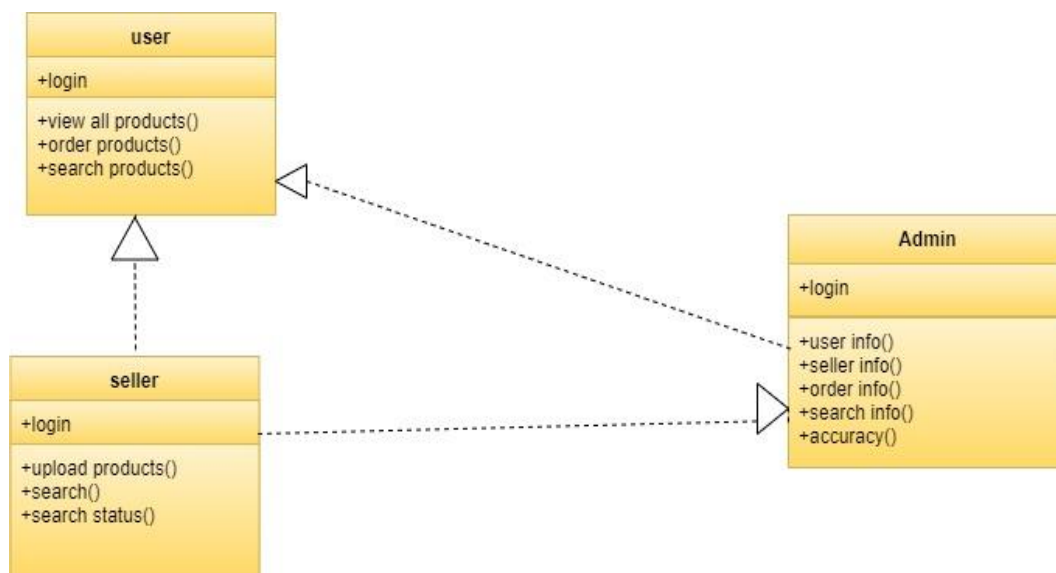
vi) **User Interface for Admin Login:**
   - The admin login page helps the admin login into their account.
   - The admin needs to provide details like ID, Password and click on login button.
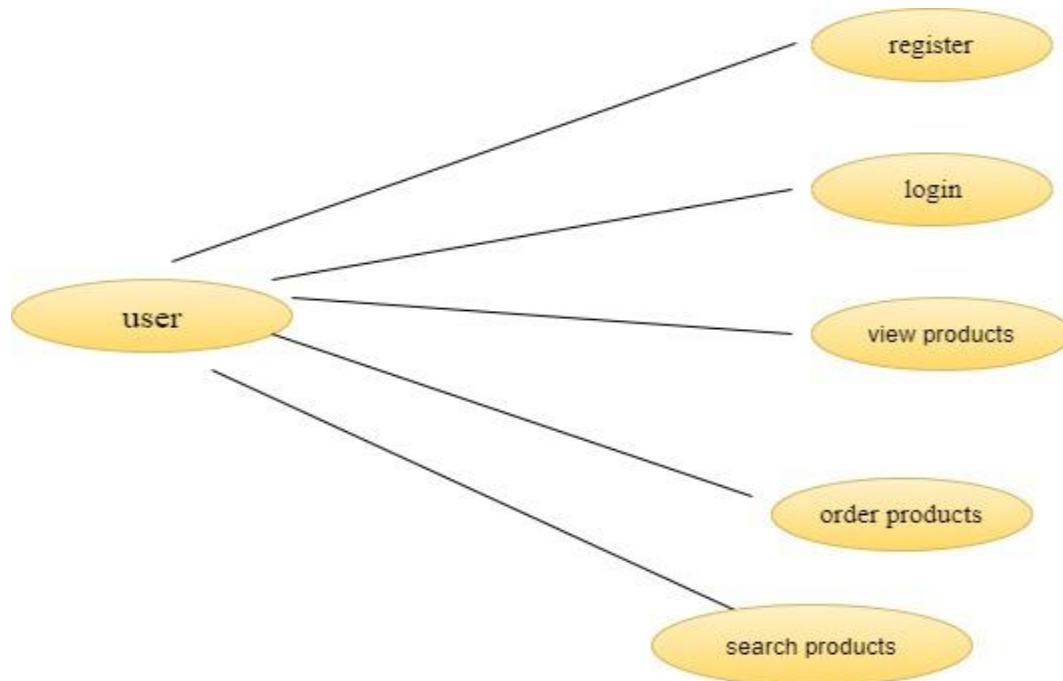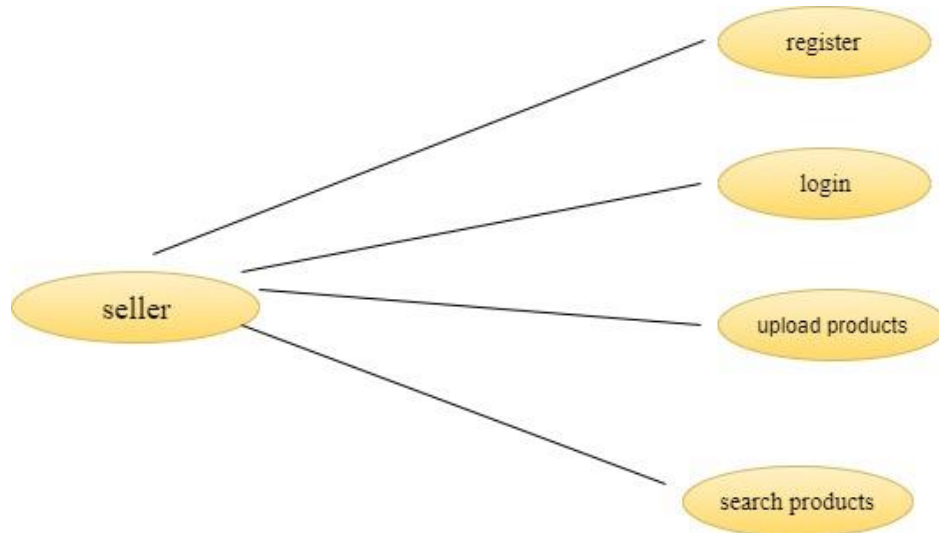
vii) **Data model creation:**
   - A user database is created with users' information.
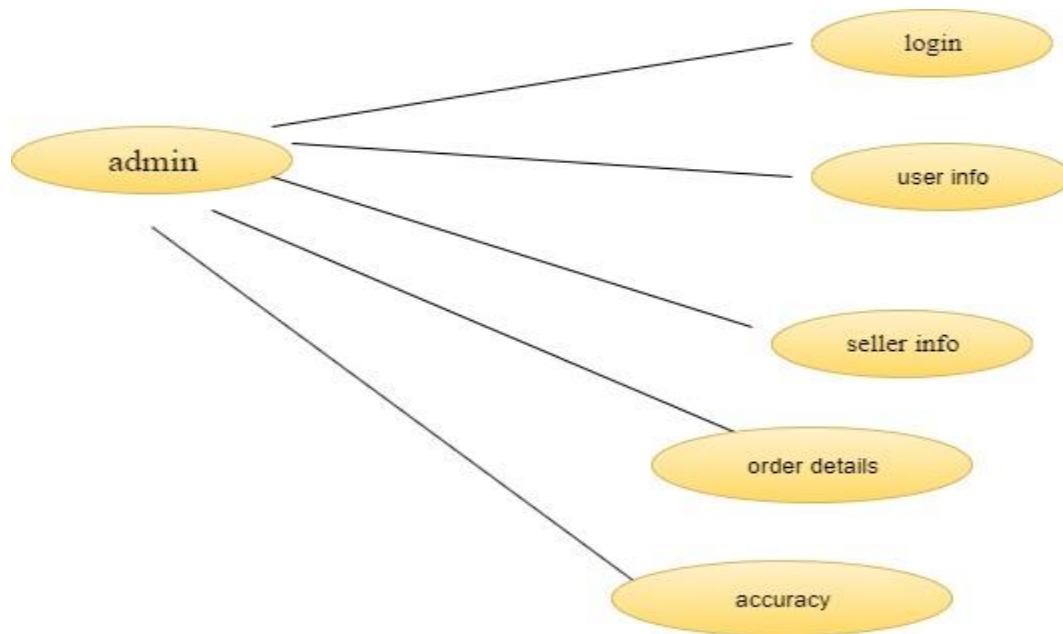   - A seller database is created with sellers' information.
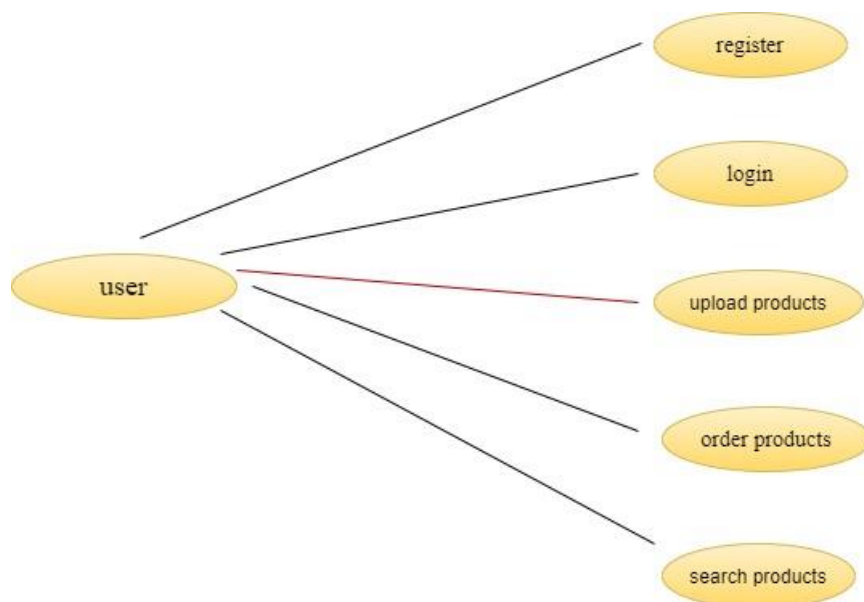
B) UML DIAGRAMS:

- **Class diagram:**

- **Use case diagram:**
  - o **Normal cases:**

register

login

upload products

seller

search products

register

login

user

view products
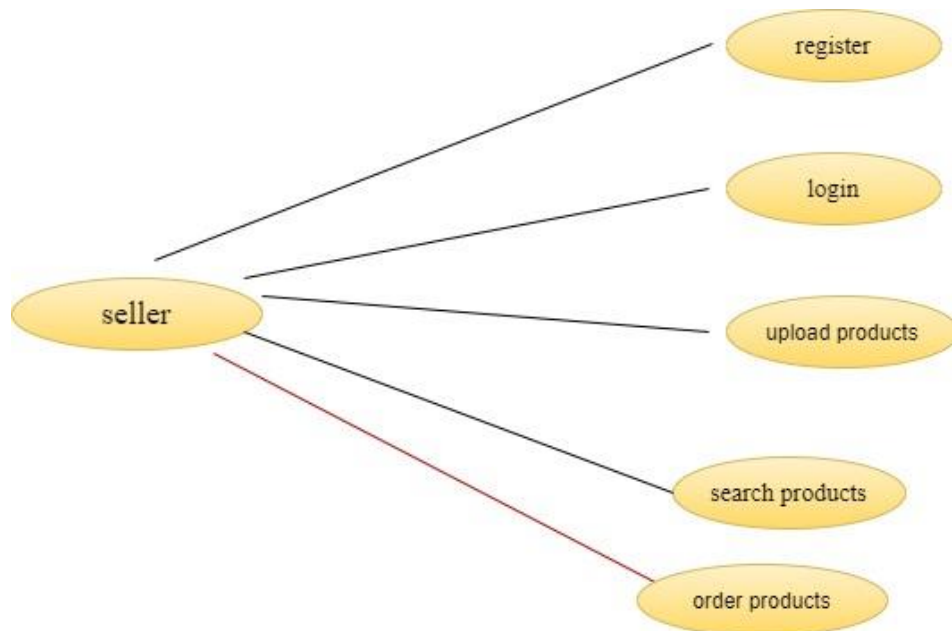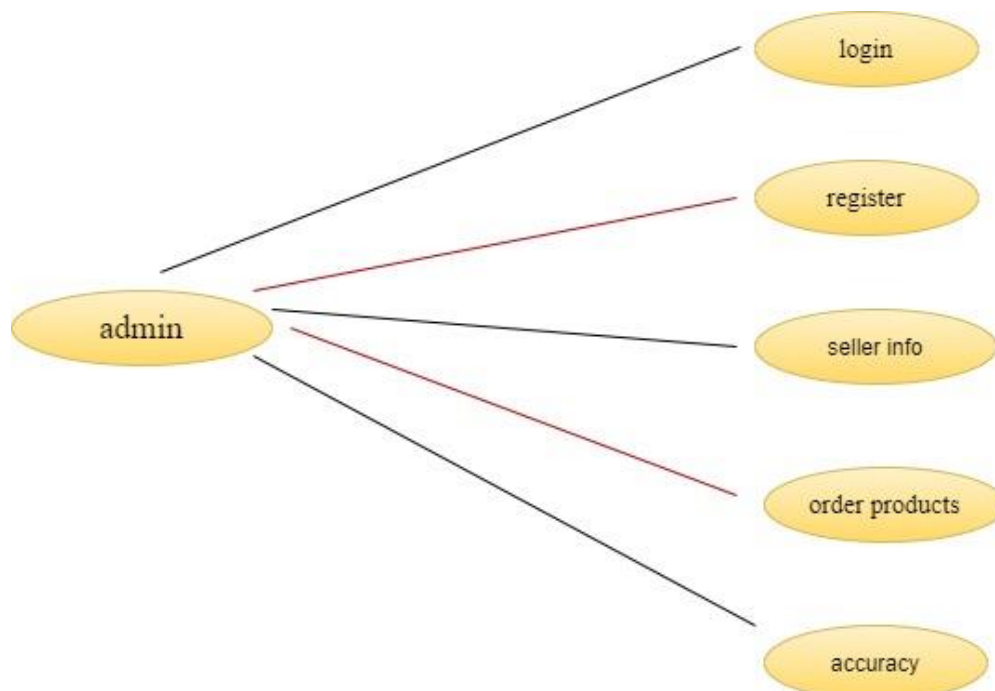
order products

search products

- **Error cases:**

- In the above use case, the user cannot upload the products. So, it's an error.
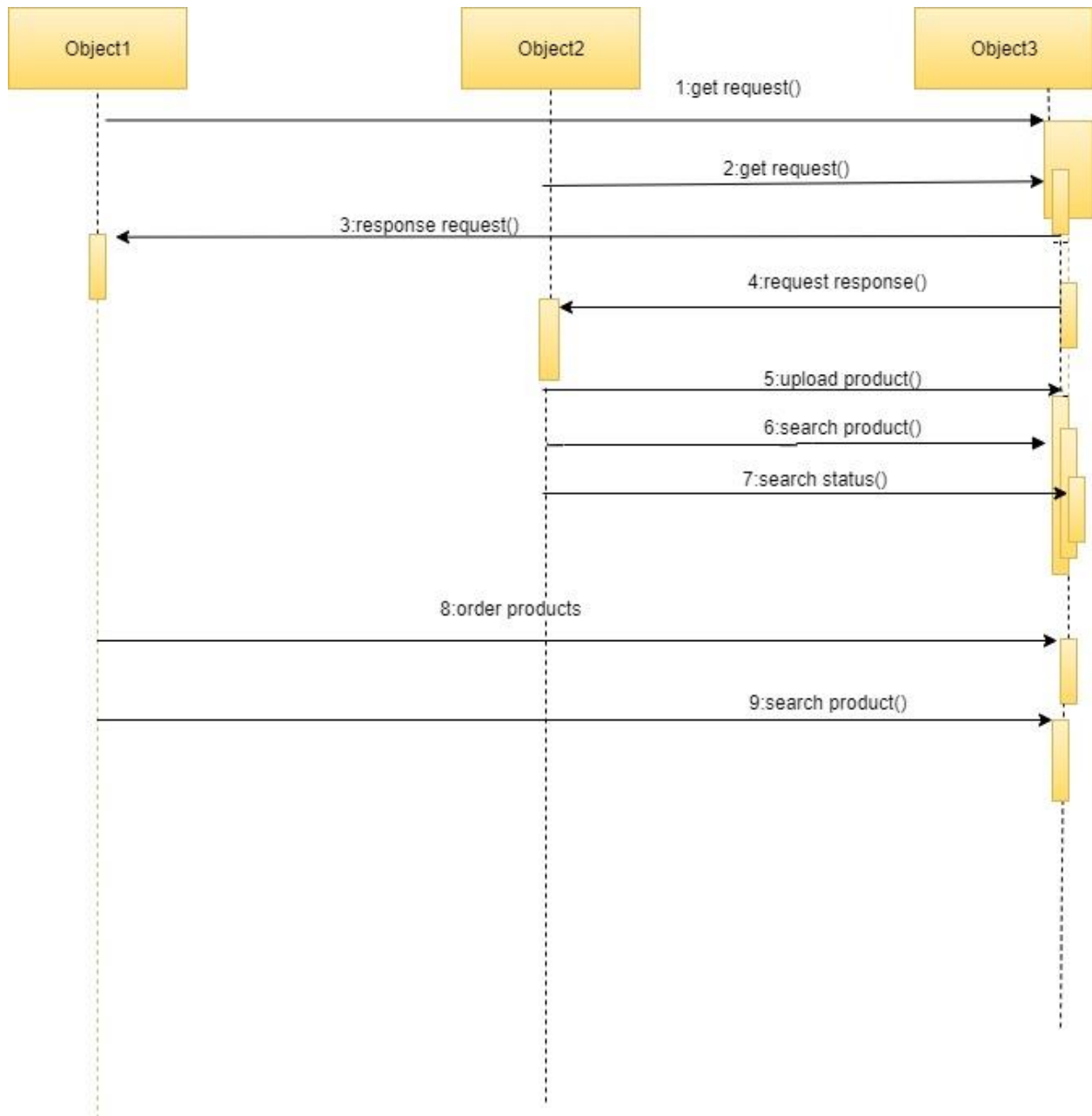
- In the above use case diagram order products is an error because seller doesn't order the products.

- In the above use case, there are two error cases. Firstly, admin don't need to register and secondly, the admin doesn't order the products.

- **Sequence diagram:**

C) TEST CASES

S.no	Test Case	Excepted Result	Result	Remarks (If Fails)	Comments
1	User REGISTERED	If user registration successfully.	Pass	If user is not registered.	
2	If user is not registered, he won't be able to proceed with checkout.	User should be able to view the products on the website.	Pass	User can't checkout.	
3	seller REGISTERED	If seller registration successfully.	Pass	If sell is not registered.	
4	If seller is not registered, he won't be able to add his products on the website.	Seller should not be able to add his product to sell.	Pass	Seller can't place the product to sell.	
5	ADMIN	seller rights will be accepted here.	Pass	If seller is not registered.	
6	If Admin finds fraudulence, he can reject the seller request.	seller rights will not be accepted here.	Pass	Authorized or Licensed Business permit and ID card is required to verify and register.	
7	ADMIN	User rights will be accepted here.	Pass	If user is not registered.	
8	If Admin finds unauthorized user, he can't deny or reject the user request.	User rights will not be accepted here.	Pass	Authorized email-ID or Phone number is required to verify and register.	
9	User LOGIN	If username and password is correct, then user redirects to valid home page.	Pass	If username or password is not correct.	
10	If User credentials are wrong, ask for "forgot password" and alert popup message is displayed with alert message.	If username and password is incorrect then popup an alert box with message and also provide forgot password option button.	Pass	If user credentials are wrong.	

11	Seller LOGIN	If seller name and password is correct, then seller redirects to valid home page.	Pass	If seller name or password is not correct.	
12	If Seller credentials are wrong, ask for "forgot password" and alert popup message is displayed with alert message.	If seller name and password is incorrect then popup a alert box with message and also provide forgot password option button.	Pass	If user credentials were wrong.	
13	Seller upload products	If seller is an authorized user, then he will redirect to product page where he can add his products.	Pass	If seller is not an authorized person, he won't be able to proceed to valid product page, as his ID will be asked before adding products.	
14	Users buy products	If users buy products, the purchase history information is added in his account.	Pass	If user not registered, he won't be able to place the order.	
15	User can search	If users search a valid product, it will show valid list of products page.	Pass	User can simply browse the page but can't make any purchase.	

D) USER MANUAL:

Installation and Usage:

For Windows Operating system
- o Download Xampp server for windows 64 bit from the website
  https://www.apachefriends.org/download.html
- o Run the executable file and install Xampp server
- o Select the following components:
  - Apache (default selection)
  - MYSQL
  - PhpMy Admin
  - PHP (default)
- o Choose an installation folder C:/Program Files/xampp
- o Install MySQL from Xampp with username 'root' and no password
- o Start Apache server and MySQL Server
- o We created the database and created the following tables like order products, seller registration, upload products, user registration.

- o

The project B2B sales has 3 main modules in its web page. We have user, seller, and admin as the three main modules in the interface. Each module has its designated login with their respective credentials. Through navigator menu, one can pass through the modules.
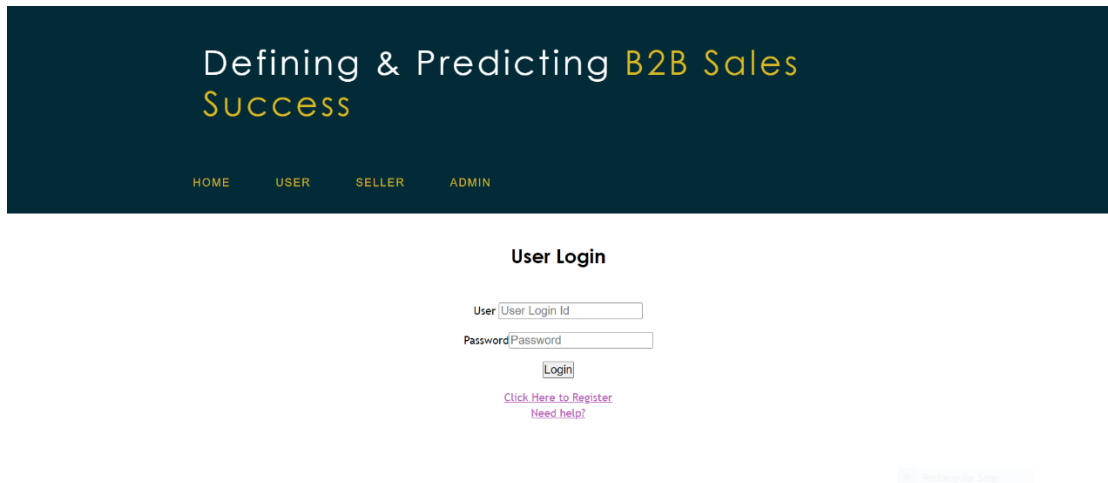
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HOME:

The home page mainly consists of three navigation links USER, SELLER, ADMIN. If the person visiting the website is a user they need to visit the USER link. If the person visiting the website is the seller, they need to visit the SELLER link. If the person visiting is an admin, they need to visit the ADMIN link.

USER:

USER LOGIN PAGE

- When we click on user, user login page is displayed where user need to provide user credentials i.e., username and password.
- Then click the login button then it gets redirected to user page.
- On clicking on "click here to register" it redirects to user registration page.
- On clicking on "Need help" it gets redirected to user manual.

USER REGISTRATION PAGE

- After clicking on "click here to register" it is redirected to user registration page which consists of user details.
- User must provide username, login ID, password, email, contact and click on register button to register.

SELLER:
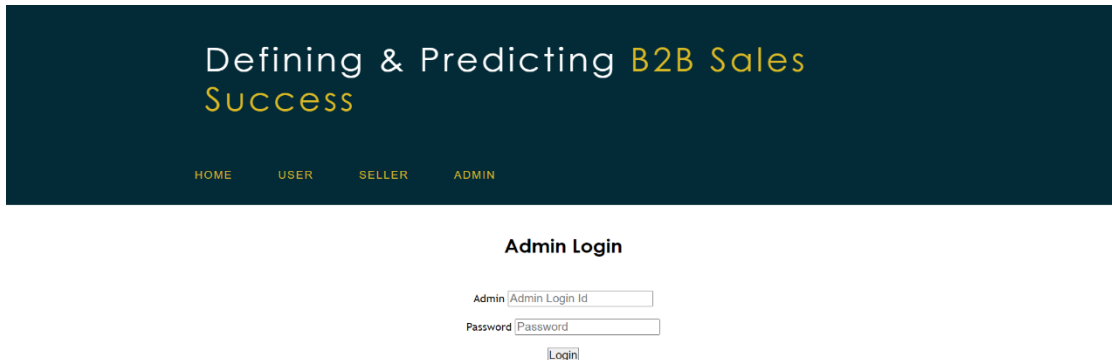
SELLER LOGIN PAGE

- When we click on seller, seller login page is displayed where seller must provide credentials i.e., seller id and password.
- Then click on login button then it redirects to seller page.
- On clicking on "click here to register" it redirects to seller registration page.
- On clicking on "Need help" it gets redirected to seller manual.

ADMIN:

ADMIN LOGIN PAGE

- On clicking on admin, admin login page will be displayed where admin must provide the credentials i.e., admin id and password.
- Then on clicking on login button, it is redirected to admin page.

E) Compiling and running test cases:

- **To compile/run the program test cases**

For unit test cases, we add unit test project in the project solution in Sublime Text.

- Create a demo test class in the project to test.
- We use the variables that are used in the web application and passed through the constructor.
- We run all the test cases and see if any action is required.
- We will add more about the test cases in the upcoming phases as unit testing in our project is majorly concentrated in the later phases of our schedule.

To compile/run the program.

Install the following software
- Install Sublime Text 3.
- Install Python 3
- Install XAMPP
- Go to project folder and open Command Prompt to install the following commands.
  - pip install django
  - pip install pandas

- pip install seaborn
- pip install sklearn
- pip install matplotlib
- pip install pymysql
- pip install mysqlclient
- pip install mysql-connector-python
- pip install sqlalchemy

Compile/Run the program.

- Open XAMPP and start Apache & MySQL.
- Open the project folder and go to command prompt.
- Run the following command python manage.py runserver
- When the server is live go to the URL displayed in the cmd and the web application is live.

F) Feedback received during peer review session.

Peer Review Session with Code6:

Code6 really liked our project and our implementation. They dug deep into our project and made few key observations. Here are the concerns they have raised: -

1) **Seller Fraud: -** There is a high chance of seller fraud which is inevitable. How do you handle and make sure it doesn't bother the genuine buyers and sellers.

Answer we gave: - Yes seller fraud is annoying. So, we gave the admin the total control. Activation is already under admins control. Now, we are also adding the power to deactivate. When both these powers are given to the admin, there is no way a seller fraud can happen without the admin noticing it. This way, the seller fraud can almost be reduced to 0.

2) **Better UI**: - The UI and the design is okay, but not up to the mark. Do you plan on coming up with a better UI which is more responsive?

Answer we gave: - Yes, it is a reasonable request. We certainly will plan for a better UI so that more features are quite simply accessible.

Actions Taken: - We have added the deactivation ability to the admin, so seller fraud is now controlled. And coming to a better UI, we have changed our overall design pattern and now, its a much better UI.

Implementation Plan:

PHASE 1: Deliverable 3: - Up until Deliverable 3, we are ready with a working demo with all the key features promised earlier. All the pages from admin to users, sellers to buyers, every page is done. The difficult task of implementing Machine Learning algorithm is done too. The admin can now activate and deactivate too. We have also made sure the sales prediction feature is working well.

PHASE 2: Deliverable 4: - For the deliverable 4, we planned on making the admins control over the system stronger by improving both the activation and deactivation. The other feature we were keen on working is that, implementing a third-party payment gateway where in the buyers and sellers can now make there transaction here itself, which leaves the admin with a receipt too. However, this is totally an additional feature which doesn't really improve the overall experience by a large margin, so we are still figuring out.

PHASE 3: Deliverable 5: - By this time, all the features will be finalized, all the pages will be perfectly functional. All the predictions made by the Machine Learning algorithm will now be even more accurate as the model inside will be more fed. The only thing which will be left is the improved UI part. So, we will probably sit down for few more meetings and come up with a much more elegant UI design and implement it, because, at the end, user experience is one of the most important aspect.

G) **A brief reflection on what has been accomplished, what went well and could be improved.**
So far, we are proud to say that we are ready with a working demo. Our team's effort has paid off and we as a team are very happy with the results. Looking back, the discussions and meetings conducted was the best part. The reason being, each and every person brainstormed in every meeting and put out some really creative inputs which solved the problems we faced. The implementation of the Machine Learning algorithm was a tough task and we pulled it off quite comfortably because of the expertise of the team. If at all anything could be improved or could have been handled better is the two features which we thought of adding, the third-party payment gateway and including the specific factors that probably affect the sales predictions. A better UI is always on the could-be-improved list anyway. We are still working on it as they are added features and not the main features of the project.

H) Member contribution table

Member name	Contribution description	Overall Contribution (%)	Note (if applicable)
RISHWANTH REDDY BADDIPADAGA	Software Installation, Development of UI, Compiling and running test cases	12.5%	
MEGHANA THIMMAPURAM	UML Diagrams, Documentation, Development of UI	12.5%	
PREETHI MUDIREDDY	Development of UI, Software Installation, UML diagrams	12.5%	
DIVYA KUMBHAM	Development of UI, Code inspection document	12.5%	
NEHA GEEREDDY	Development of UI, Code inspection document	12.5%	
SRI HARSHA SWARAJ NADENDLA	Development of UI, Code inspection document	12.5%	
ROJA KAMBLE	Development of UI, Test cases	12.5%	
SAI NIKHIL CHITTURI	Development of UI, User manual	12.5%	