PONDICHERRY UNIVERSITY
SCHOOL OF ENGINEERING AND TECHNOLOGY
DEPARTMENT OF COMPUTER SCIENCE

CSCA 424: INTERNET AND WEB TECHNOLOGIES LAB
Project Title: Ledger project using HTML, CSS, JavaScript, php, MySQL

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COURSE	:	MCA
YEAR	:	2nd year & 4th Sem, 2021

Abstract— **today, every customer-seller need an app so that they can keep track of their daily expenses, transactions in the easiest way. So, to keep the data easily and efficiently, I have make a "Ledger" project, which is intended to solve daily transactions keeping, retrieving problem between customer-seller in the easiest way by providing a basic explanation of how to do it easily.**
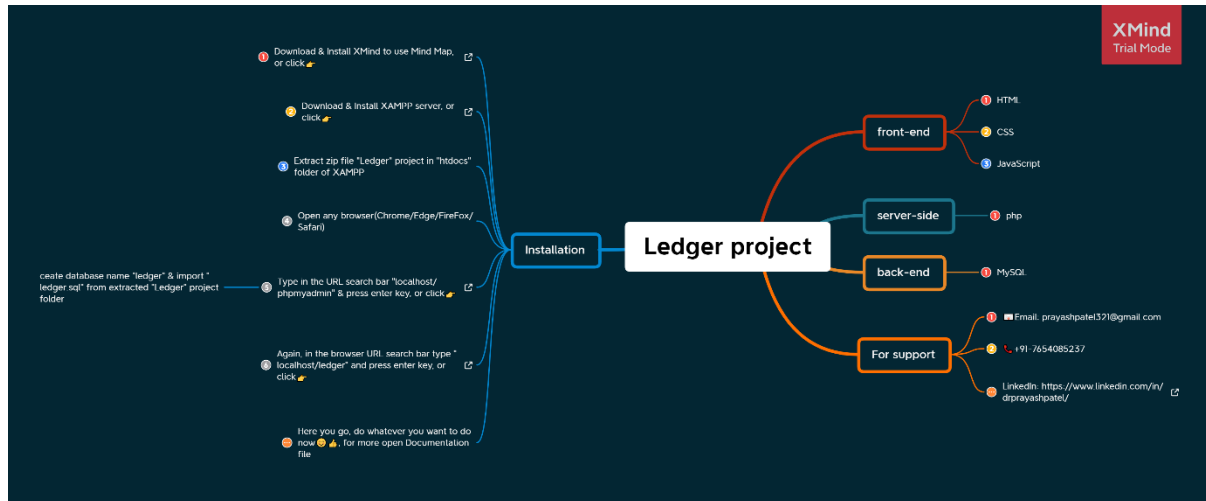
Fig. 1 Overview of how to start working with Ledger project, for more open XMind file

Project description

The Ledger application is intended to solve lots of issues of customer-seller problem of daily record keeping of their transaction/expenditure. I have founded that even in modern applications there are many issues within the app, they are not very user-friendly. A very layman should require more technical knowledge & things to know how application works. So, in the Ledger app, it is a beginning step to solve almost all issues of customers and sellers having features like-

1. **Having ready-made templates for different seller's** like- grocery seller, gold seller, farmers, hardware shopkeeper, software solutions are needed different templates because they buy and sell different kinds and categories of items.
2. **Fully customizable app** for user to use in whichever customized way they want to use.
3. **Emoji along with the items and or background theme of the customer & item** which is in the transactions should be available for easily recognition of the transaction is regarding which item(s) and with which customer.
4. **Voice to text input (command input)**
5. **Also customizable voice command**
6. **App should work in multilingual**
7. **Voice note keeping for illiterate & low vision persons**
8. **Text to voice output**
9. **Easiest search tools**
10. **Multilingual 24×7 customer care support & having regular blogs for tips and tricks**
11. **Cloud storage, automatic SMS payment reminders, accept payments digitally**

12. **Secure & Robust and get business promoted and more features**

Voce to text input (command input) will be normal English sentences

E.g. to add transaction, user will speak-

Insert into Ledger: 7654085237 Prayash Paid 335 Due 45 Item php Book Today

It should be automatically understood by app and written in the database as

Username	Cname	Paid	Due	Total	Item_Name	Item_Type	Date	Remarks
7654085237	Prayash	335.0	45.0	380.0	php	Book	16/07/2021	NULL

Here, the SQL like command (Insert into Ledger) to activate "Ledger" app.

E.g. to update transaction

Update into Ledger: 7654085237 Paid 45

It should be automatically understood by app and updated in the database as

Username	Cname	Paid	Due	Total	Item_Name	Item_Type	Date	Remarks
7654085237	Prayash	380.0	0.0	380.0	php	Book	16/07/2021	NULL

Here, I considered "**Username**" as primary key and that's how updated on the basis of Username

E.g. to delete transaction

Delete from Ledger: 7654085237

It should be automatically understood by app and delete in the database as

Username	Cname	Paid	Due	Total	Item_Name	Item_Type	Date	Remarks

Considering "**Username**" as primary key and that's how can get deleted on the basis of Username

And same thing can be written in Hindi as

उदाहरण, खाते में लिखने के लिए

खाते में लिखो: 7654085237 प्रयास जमा 335 उधार 45 पी-एच-पी किताब

उपभोक्ता	ग्राहक	जमा	उधार	कुल	वस्तु	प्रकार	दिनांक	टिप्पणी

7654085237	प्रयास	335.0	45.0	380.0	पी-एच-पी	किताब	16/07/2021	खाली

Here, by default date will be today date.

उदाहरण, खाते में सुधार के लिए

खाते में सुधार करो: 7654085237 जमा 45

उपभोक्ता	ग्राहक	जमा	उधार	कुल	वस्तु	प्रकार	दिनांक	टिप्पणी
7654085237	प्रयास	380.0	0.0	380.0	पी-एच-पी	किताब	16/07/2021	खाली

उदाहरण, खाते से मिटाने के लिए

खाते से मिटा दो: 7654085237

उपभोक्ता	ग्राहक	जमा	उधार	कुल	वस्तु	प्रकार	दिनांक	टिप्पणी

 However, in this project I haven't did so much to achieve this much of things. But my working will be to achieve as quicker as to avail these features.

To quickly start to this project, I have written in **README.md** file.

Now, let's begin with working-

After extraction of file "Ledger" project- **Start Apache server** to run php pages at server side

And **start MySQL** to get connected with the "Ledger" database (Ledger.sql)
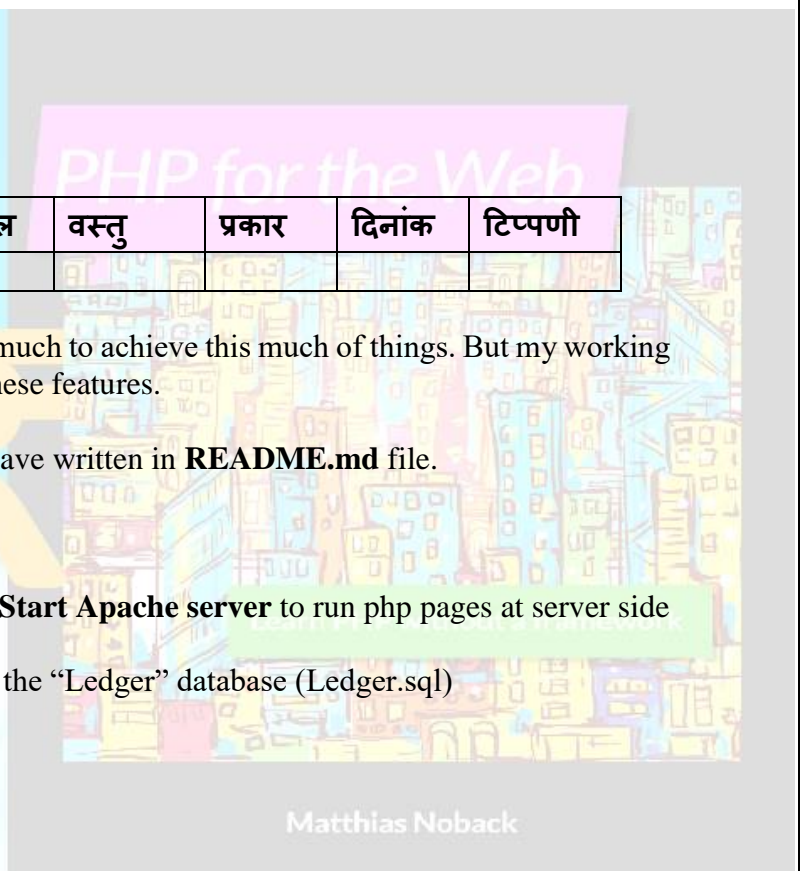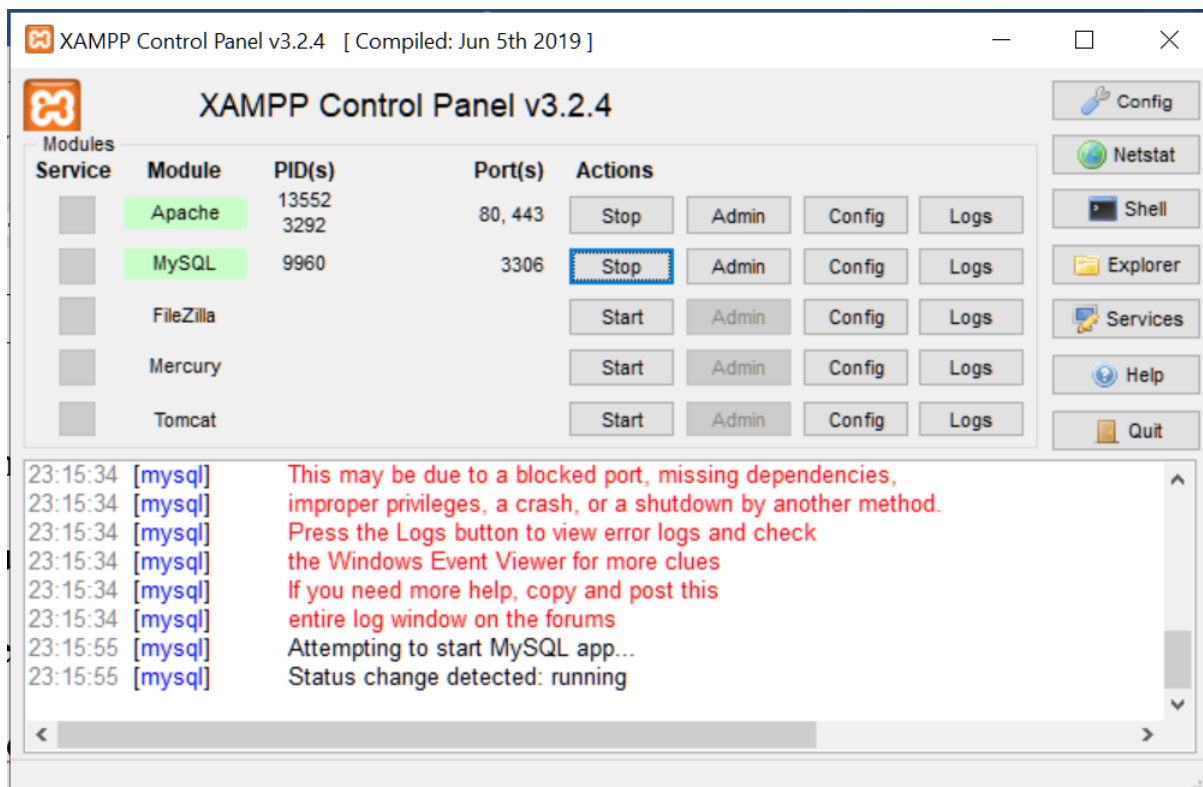
Fig. 2 XAMPP control panel, running Apache server and MySQL database

There, is "**index.php**" file; running this php file through browser, the Brower window look like this
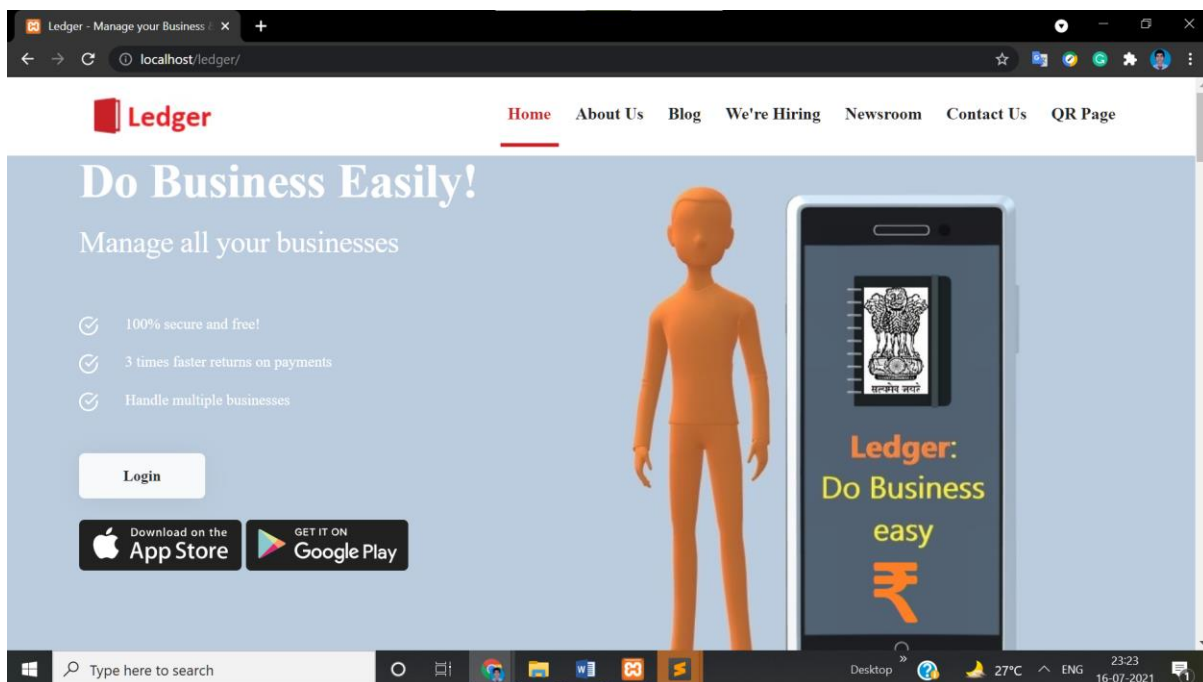
Fig. 3 Ledger website interface, screen-1

Here, we can know about different things of "Ledger" application, like what is Ledger application all about, what's feature it provides, and more things.

In the "**Contact Us"** section of menu-bar, user will get contact information of the application developer

Fig. 4 Menu-bar in Ledger

Here, click on <mark>Contact Us</mark> to immediately contact with Ledger customer care of any issues 24×7.

Fig. 5 Contact us page of Ledger
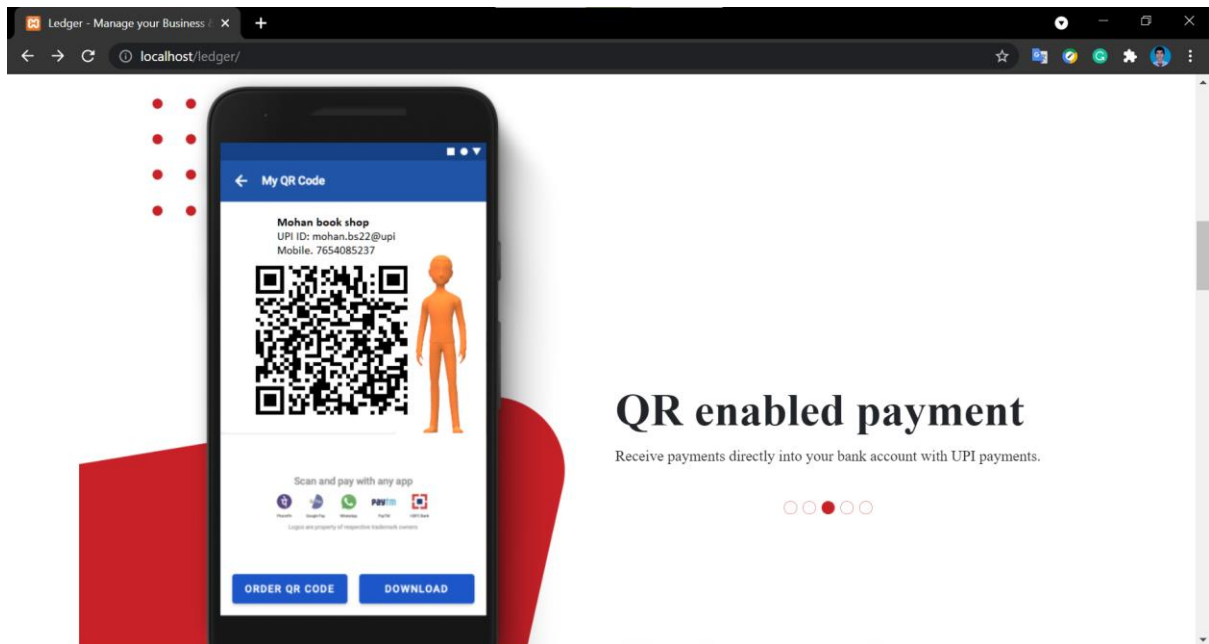
Fig. 6 Highlighting features with carousel items i.e. moveable object
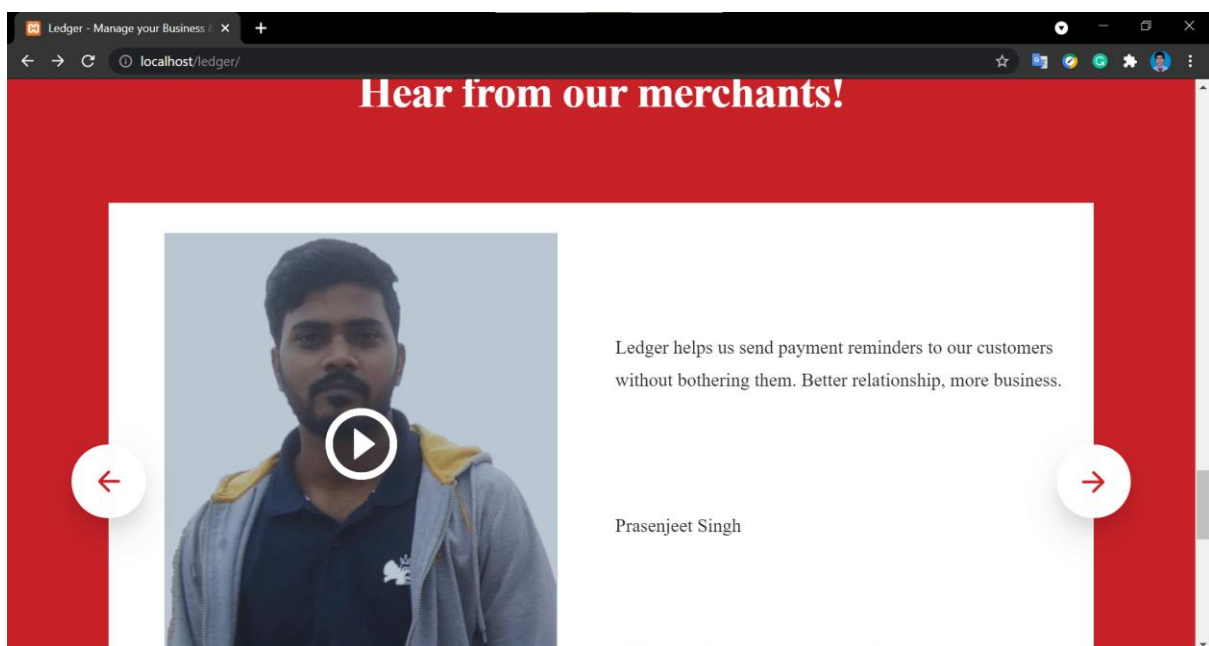
Fig. 7 Getting promotion for Ledger app through customers
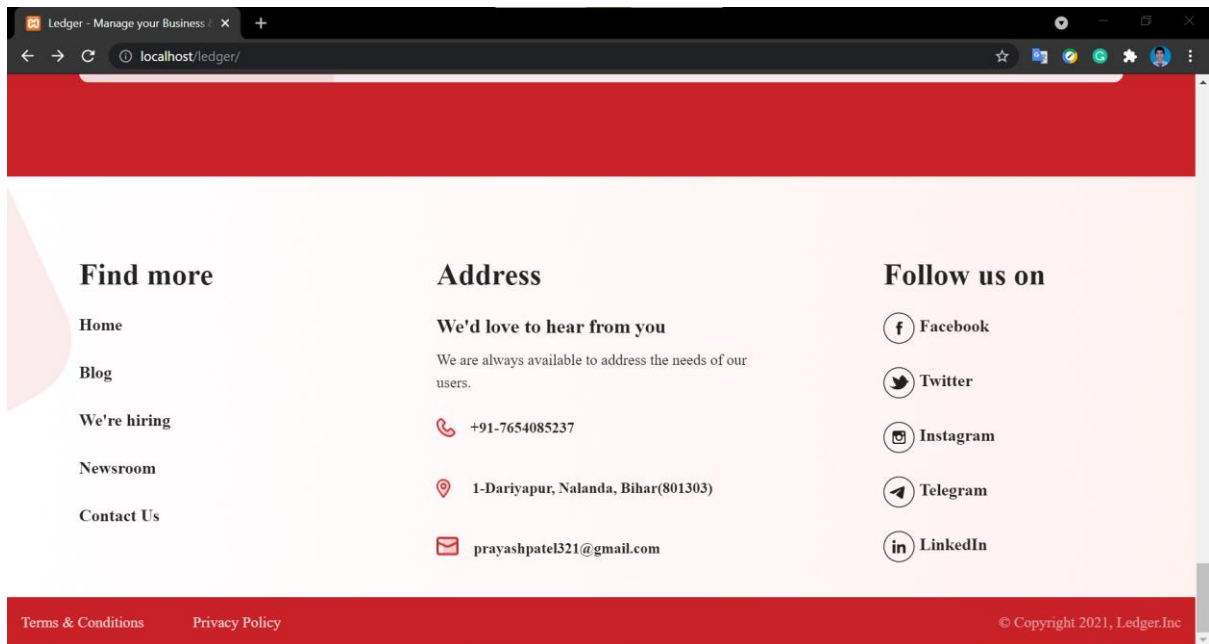
Fig. 8 Footer page containing various shortcuts and links of different section of page, social media and brief address
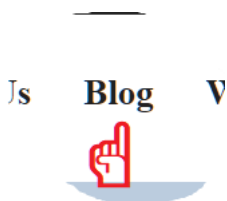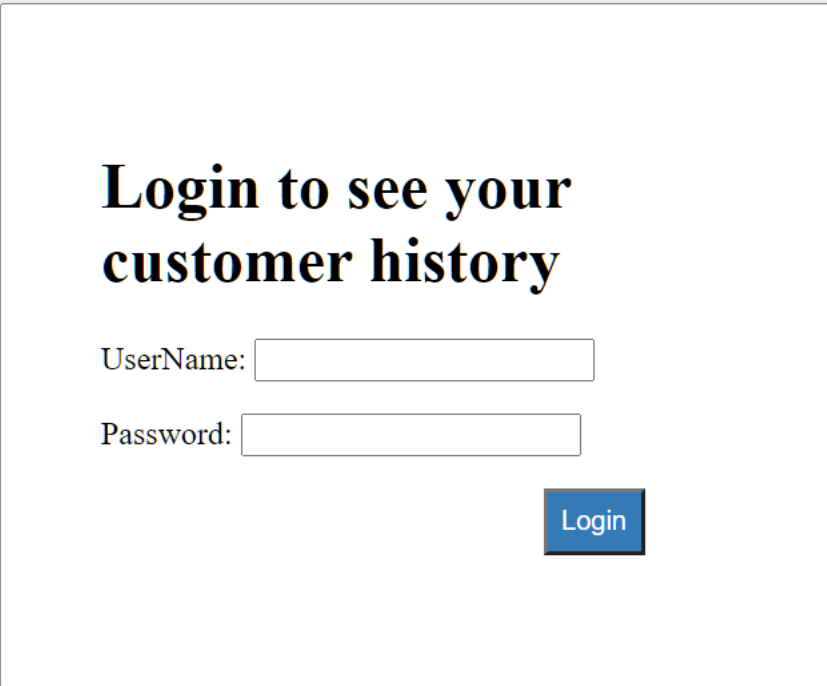
Here, we can add blogs regularly. Because Blog posts are great for making our software and its features known to a wide audience of potential users. We can use blog to offer clarifications of what our product does, deliver user-friendly tutorials, tips and tricks, walk-throughs, explain updates, etc. Through it customer will be getting aware form new security issues also.
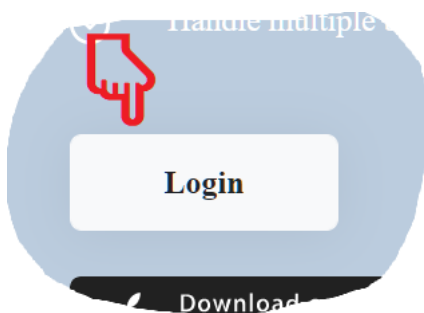
Now, click on Login button to know your money transactions regarding items either you purchased or sold with customer(s) or seller(s).

We will get this 👇
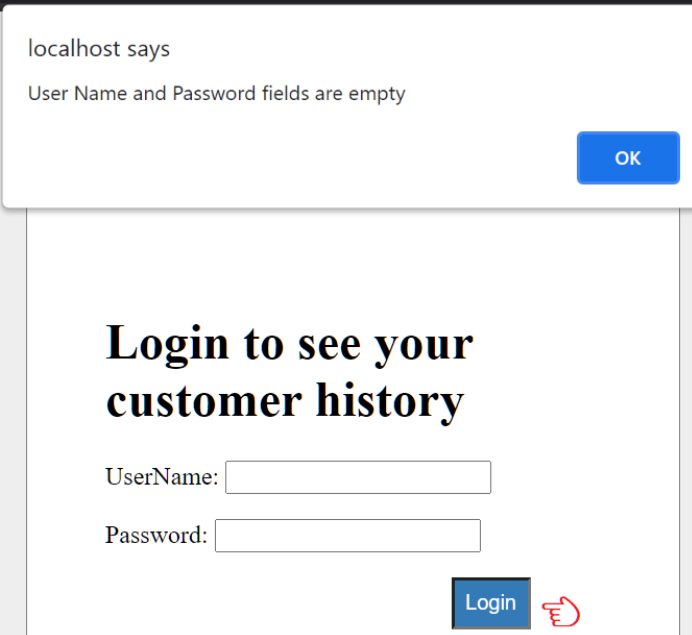
Now we have to ==enter our **UserName** & **Password**==

Note:- After importing ==**"ledger.sql"**== database file, there the default is-

Username: 7654085237

Password: Pr@7654

Fig. 9 Without entering UserName & Password and clicking Login will show pop-up message of error
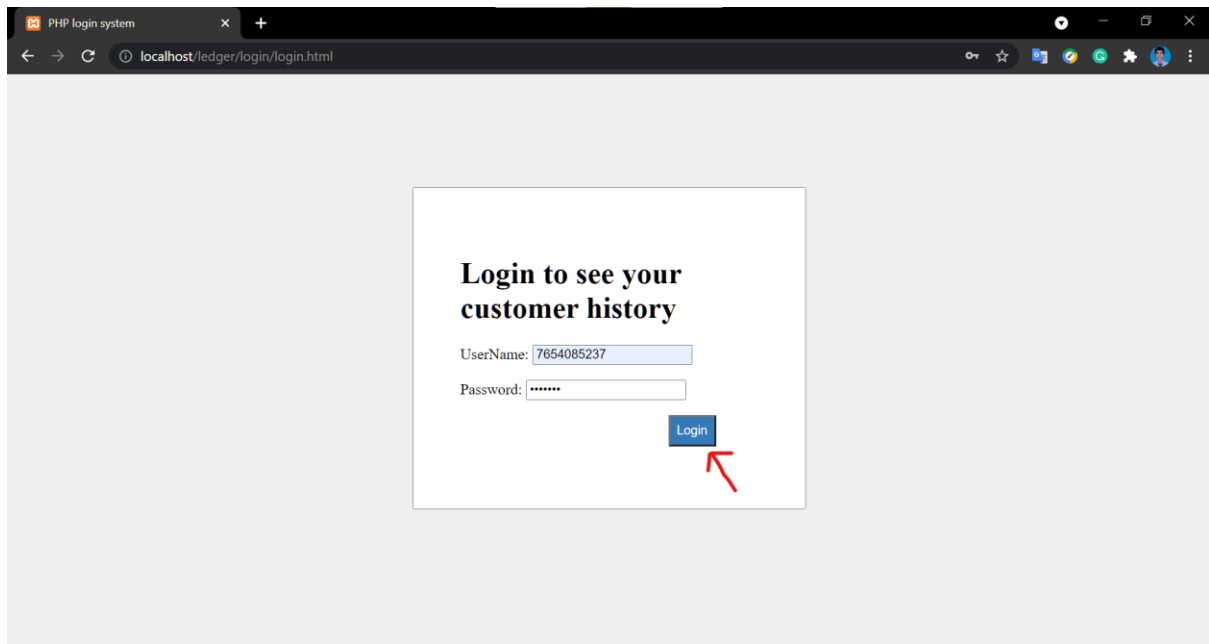
Fig. 10 In the Login screen - entering correct Username & wrong Password, to check what it shows

Now, we will click on **Login** button after entering username and password.

Testing with incorrect password (say "*pra7654*"), the user screen will show
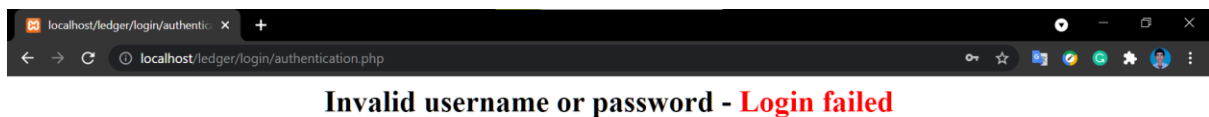
Fig. 11 Showing Username and/or password is incorrect

After, re-entering with correct credentials (say, UserName-*7654085237* & Password-*Pr@7654*), we can see this on the screen from MySQL database (file ledger.sql)
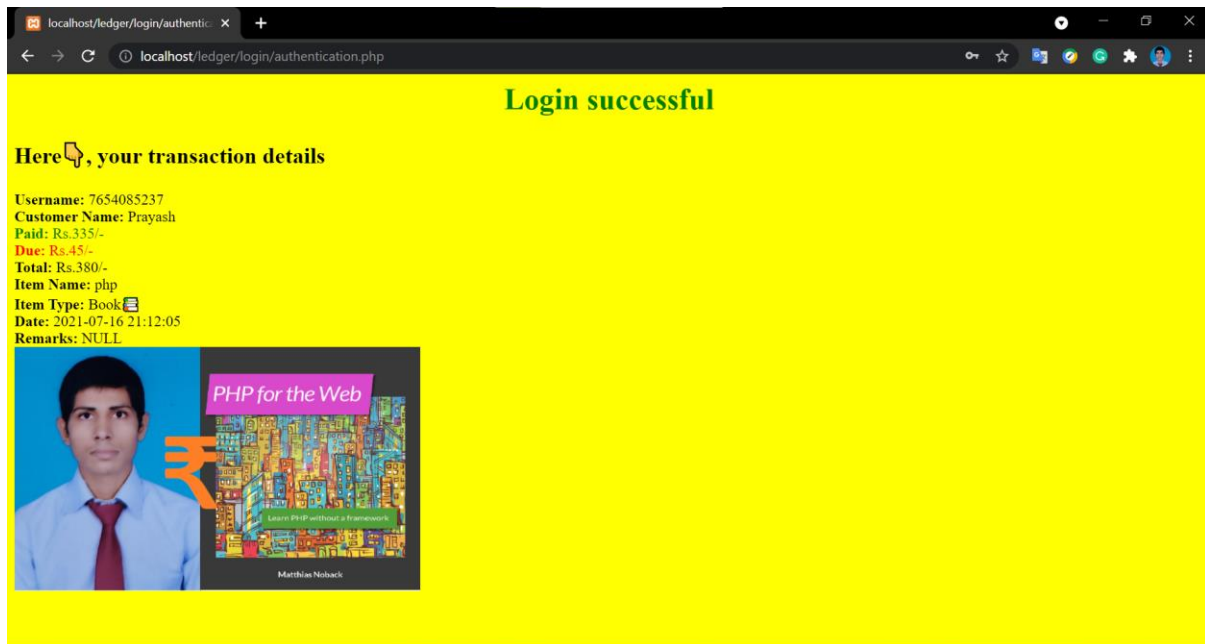
Fig. 12 Showing transaction details in Ledger after successful login

Here, we can easily understand that Customer name "Prayash" whose mobile no.(i.e. unique UserName) has purchased php book and paid only Rs.335/- out of Rs.380/-(having dues of Rs.45/-) on 16th July 2021, Friday at 9:12pm. Paid and due are showing in colours green and red respectively so that user can easily find and understand even with colour. Any additional remarks can also be shown if available. Also, don't confused with the same login username and customer username in the records of Ledger application, just for testing purpose I have taken it.
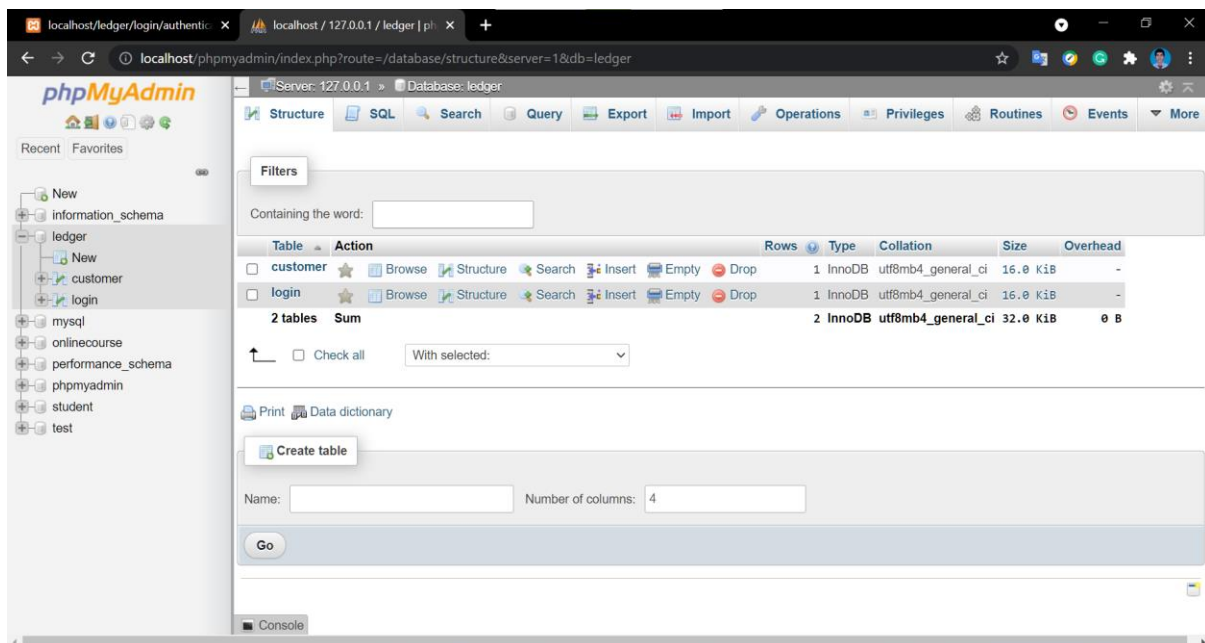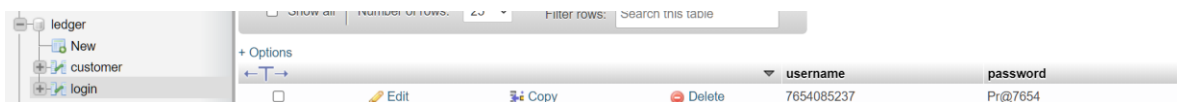
Fig. 13 Ledger database containing two tables- customer & login
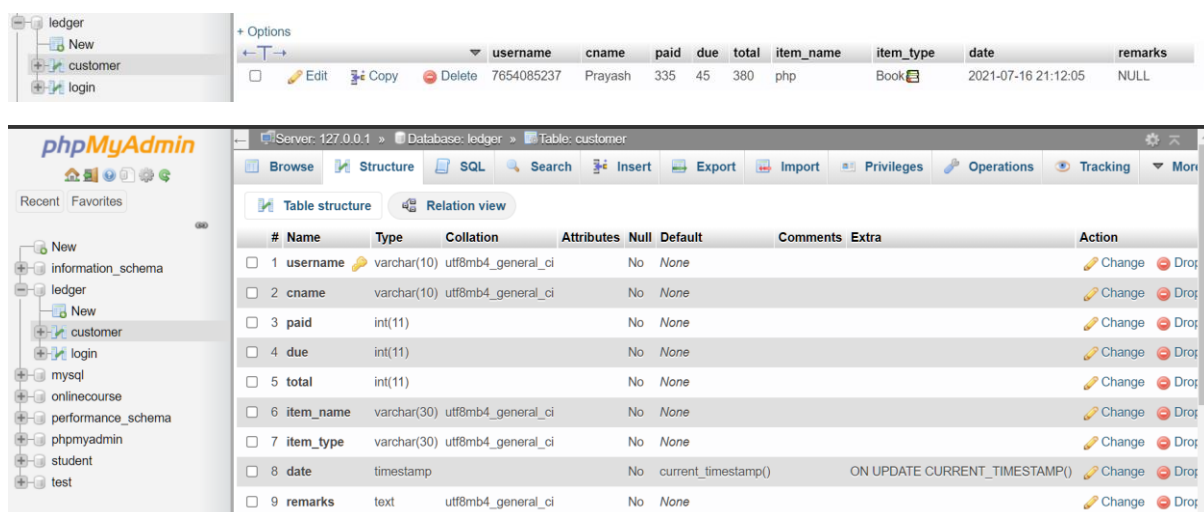
Fig. 14 login table containing records of users' usernames & passwords

Fig. 15 Structure of login table

Fig. 16 Structure of customer table

CONCLUSION

So, the inference from this Ledger project is that no application can be permanent in the market unless it is not getting time-to-time maintenance and updates which are required. There is many more improvement is required to start competing with similar existing applications. And we need not have to worry too much about the product, because every successful application needs a long run to be reliable among audience. Before this project, I don't know anything about HTML, CSS, JavaScript, php and how to link MySQL at back-end in the project. But now, I have knowledge of these things along with how to write **README.md** which is very important for software projects and how to write good documentation of the project.

ACKNOWLEDGEMENT