



Discipline

Testing & Deployment

(3 versions)

CS5201

Stage-3

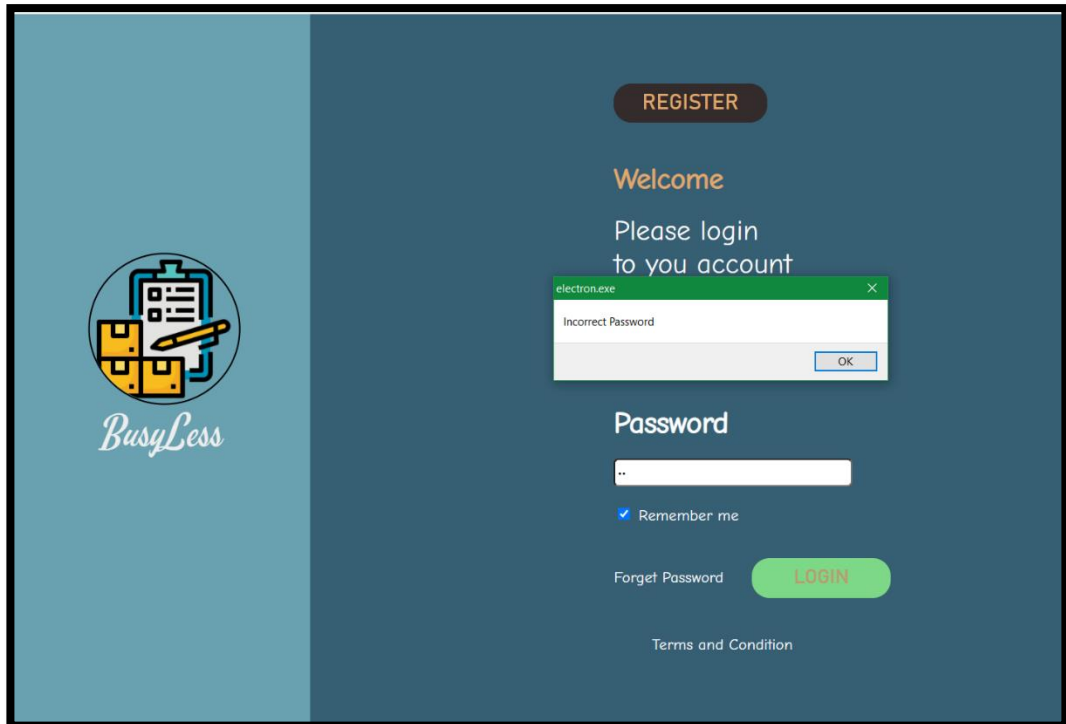
Sheikh Muhammed Tadeeb (AU19B1014)

❖ Functionalities Implemented:

1. Authorization: -

If I try to login with wrong login credentials the application won't allow me to do that.

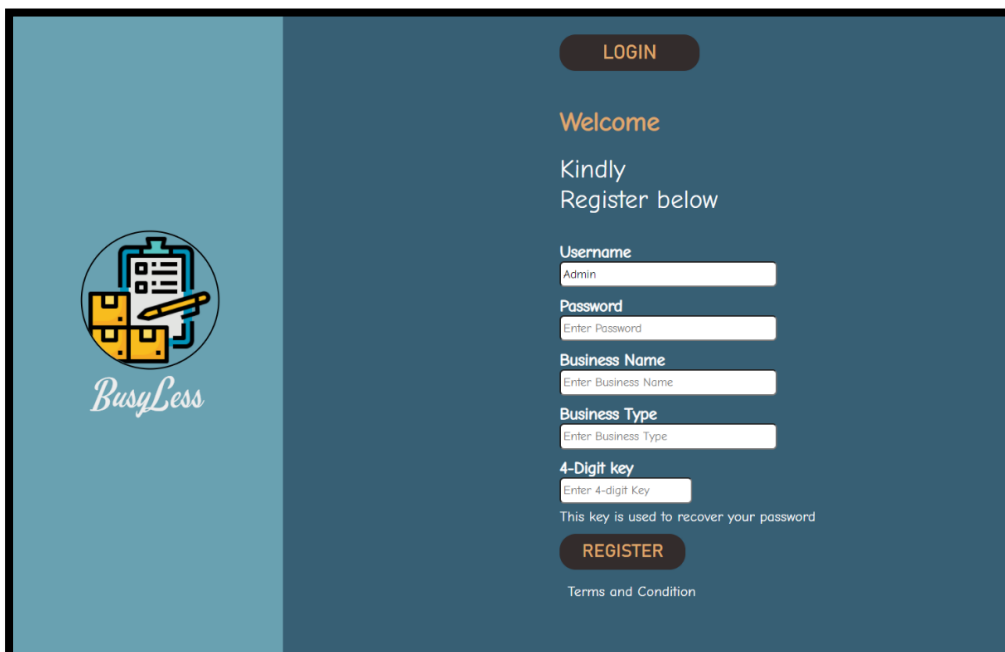
(Status: **PASSED**)



2. Authentication: -

To be a valid user of the system we must register into it.

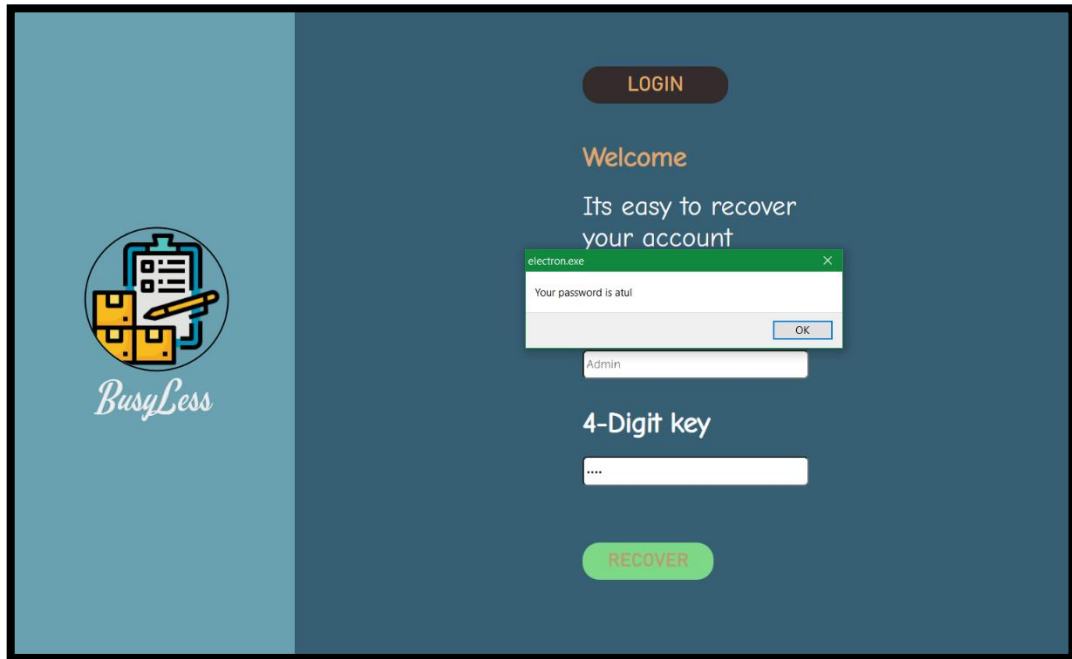
(Status: **PASSED**)



3. User-Control and freedom: -

User has full control on the system as even if he/she forgets the password they can recover it just by entering their key which they entered during their registration.

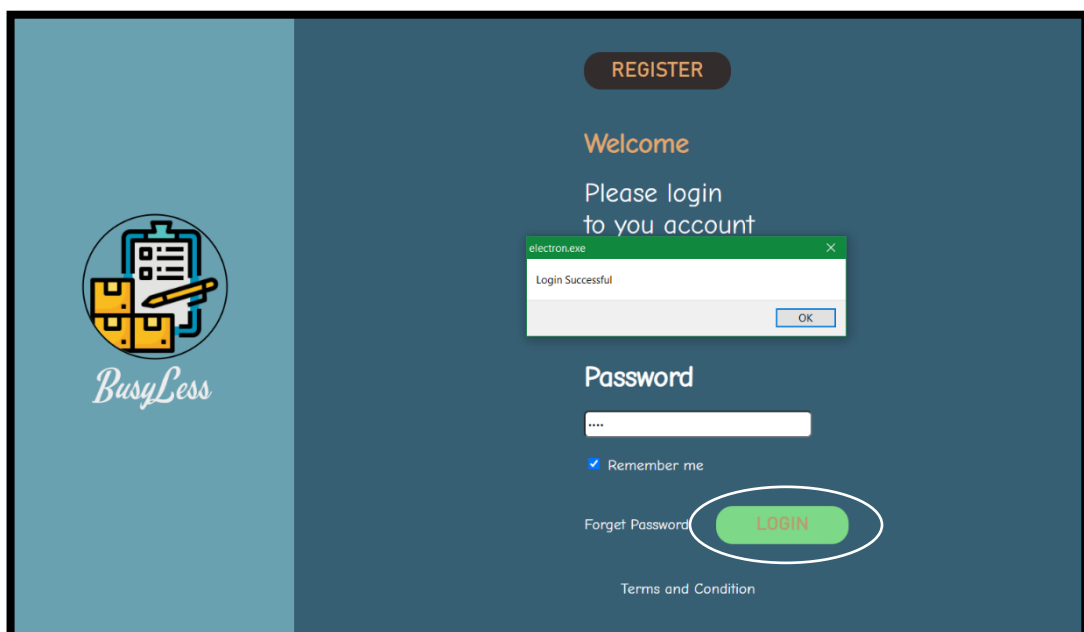
(Status: **PASSED**)



4. Visibility of system status:

Any action user does in the application has some feedback/response to the user by which the user feels connected with the system e.g.: hovering effects, login updates etc.

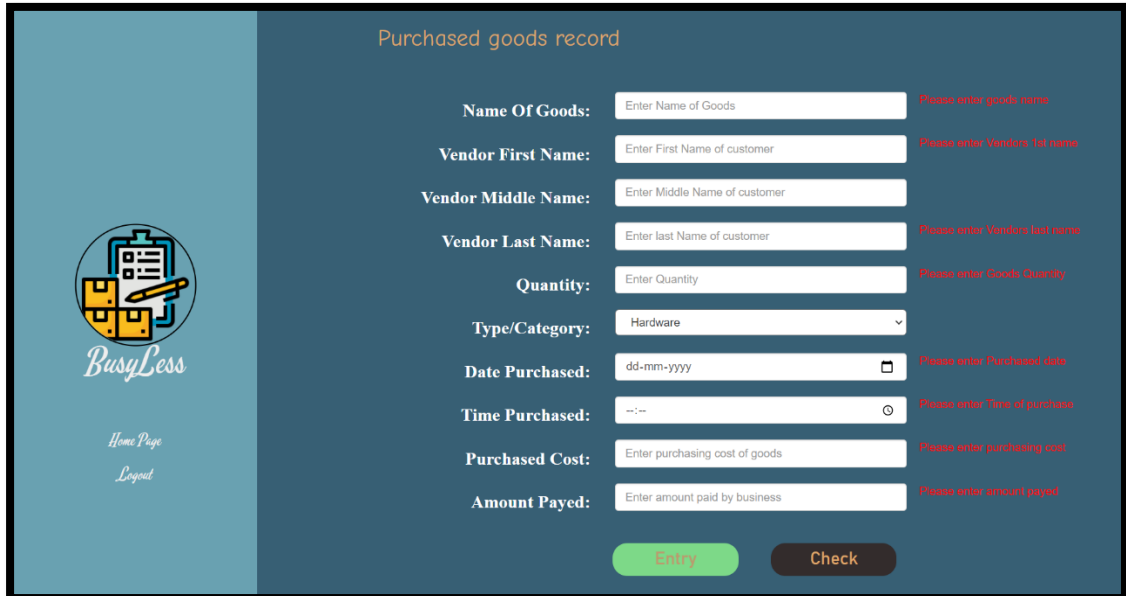
(Status: **PASSED**)



5. Error prevention:

The user is provided with the validations which help the user to be free from errors while using the application.

(Status: **PASSED**)



The screenshot shows the 'Purchased goods record' form. On the left is a sidebar with the 'BusyLess' logo and links for 'Home Page' and 'Logout'. The main form area has a title 'Purchased goods record' and contains the following fields with validation messages:

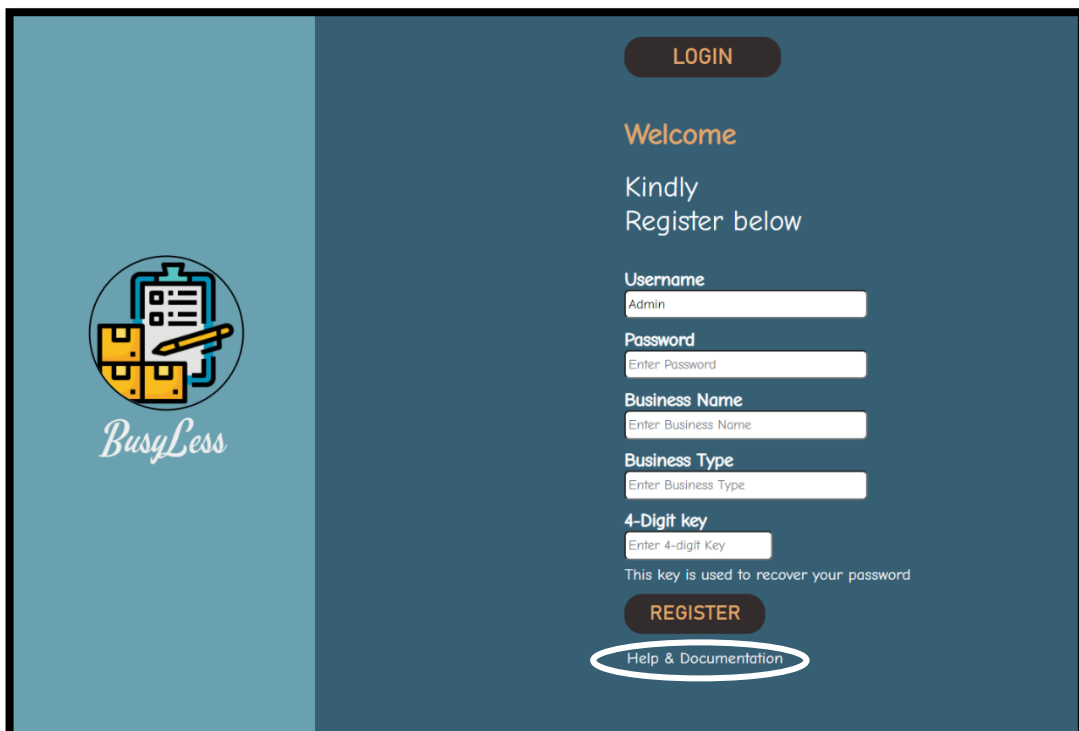
- Name Of Goods:** Enter Name of Goods (Please enter goods name)
- Vendor First Name:** Enter First Name of customer (Please enter Vendors 1st name)
- Vendor Middle Name:** Enter Middle Name of customer
- Vendor Last Name:** Enter last Name of customer (Please enter Vendors last name)
- Quantity:** Enter Quantity (Please enter Goods Quantity)
- Type/Category:** Hardware (dropdown menu)
- Date Purchased:** dd-mm-yyyy (Please enter Purchased date)
- Time Purchased:** --:-- (Please enter Time of purchase)
- Purchased Cost:** Enter purchasing cost of goods (Please enter purchasing cost)
- Amount Paid:** Enter amount paid by business (Please enter amount paid)

At the bottom of the form are two buttons: 'Entry' (green) and 'Check' (dark blue).

6. Help and Documentation:

The user is provided with a page to which he can browse and check how to use the application.

(Status: **PASSED**)



The screenshot shows the 'Welcome' page. On the left is a sidebar with the 'BusyLess' logo. The main content area has a 'LOGIN' button at the top, followed by the text 'Welcome' and 'Kindly Register below'. Below this are the following registration fields:

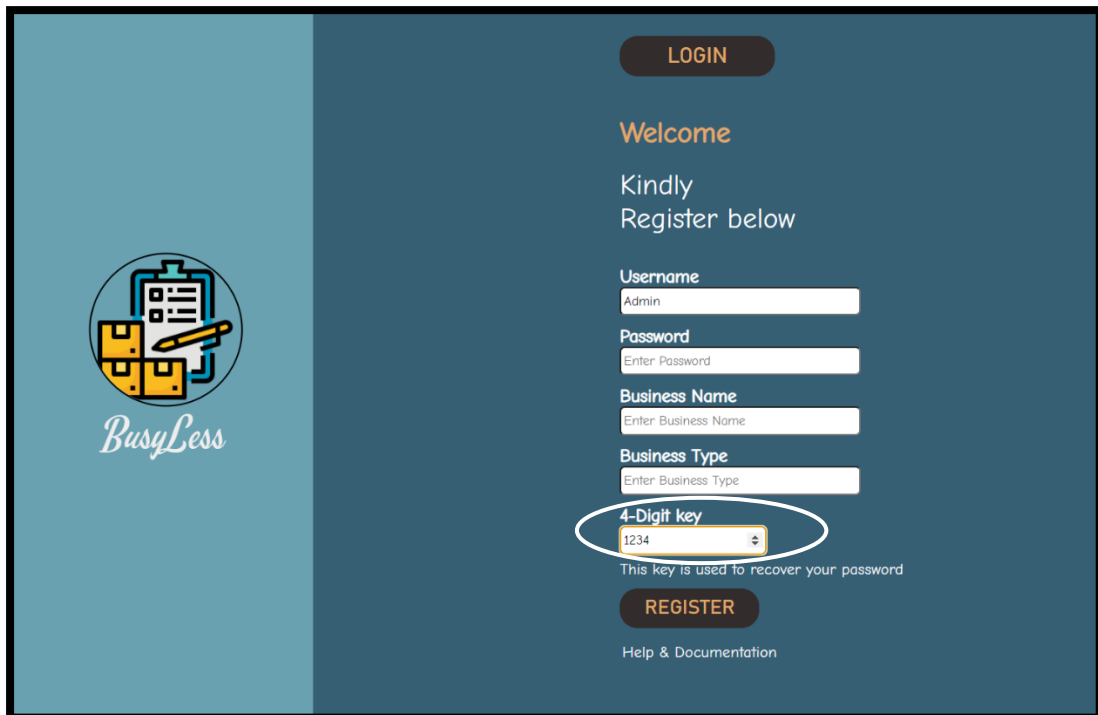
- Username:** Admin
- Password:** Enter Password
- Business Name:** Enter Business Name
- Business Type:** Enter Business Type
- 4-Digit key:** Enter 4-digit Key

Below the fields is a note: 'This key is used to recover your password'. At the bottom are a 'REGISTER' button and a 'Help & Documentation' link, which is circled in white.

❖ Features added after review:

7. Numeric values:

Allowing only numeric values in key at the time of registration. (Status: **PASSED**)

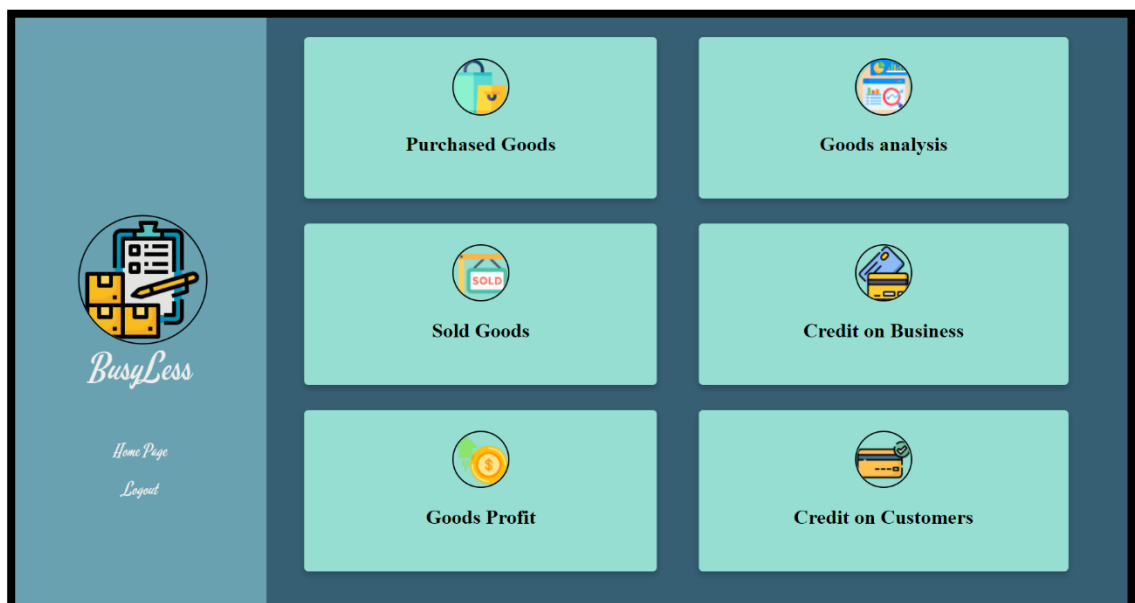


The screenshot shows the BusyLess registration interface. On the left is the BusyLess logo. On the right, there is a 'LOGIN' button and a 'Welcome' message. Below the welcome message, it says 'Kindly Register below'. The registration form includes fields for 'Username' (with 'Admin' entered), 'Password' (with 'Enter Password' placeholder), 'Business Name' (with 'Enter Business Name' placeholder), 'Business Type' (with 'Enter Business Type' placeholder), and '4-Digit key' (with '1234' entered and highlighted by a red circle). Below the key field, a note states 'This key is used to recover your password'. At the bottom of the form is a 'REGISTER' button and a link for 'Help & Documentation'.

8. Consistency & standard: -

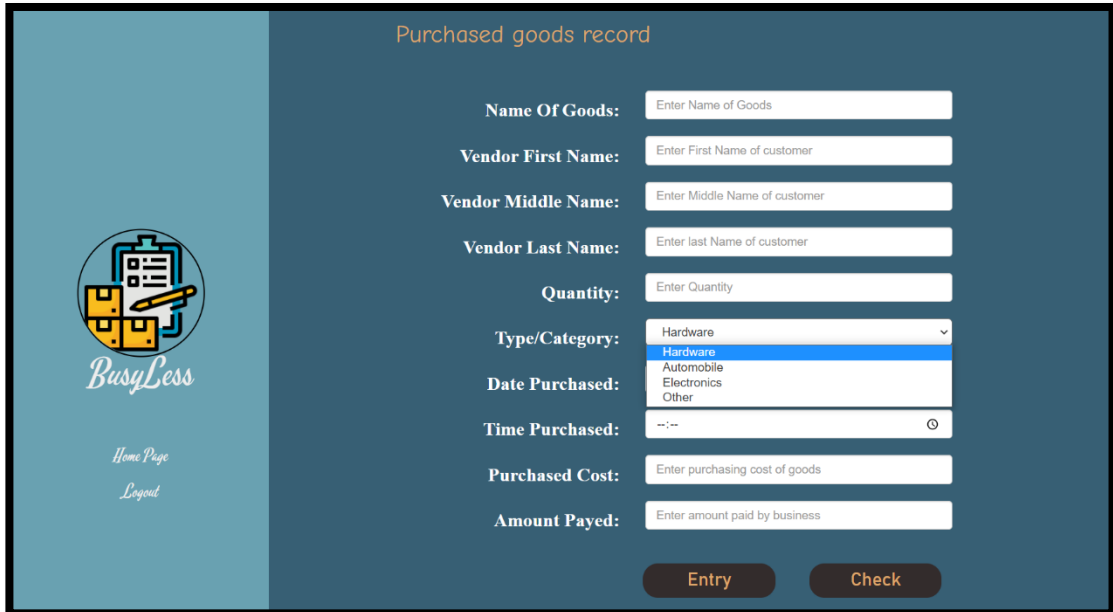
Consistency in color and font-style. I have changed it on forms and home page as well.

(Status: **PASSED**)



9. Dropdown list:

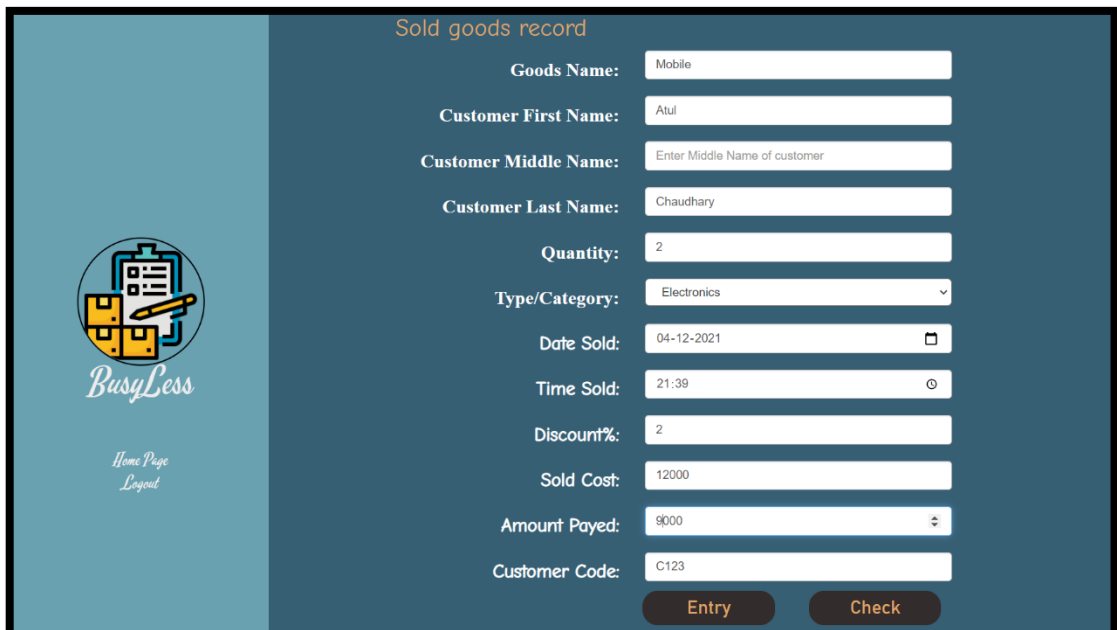
In business type I have given a dropdown list so that the user gets help from the application in quickly choosing the category/type of product. (Status: **PASSED**)



The screenshot shows the 'Purchased goods record' form. On the left is a sidebar with the 'BusyLess' logo and links for 'Home Page' and 'Logout'. The main form area has a title 'Purchased goods record' and several input fields: 'Name Of Goods' (text), 'Vendor First Name' (text), 'Vendor Middle Name' (text), 'Vendor Last Name' (text), 'Quantity' (text), 'Type/Category' (dropdown menu with 'Hardware' selected), 'Date Purchased' (text), 'Time Purchased' (time picker), 'Purchased Cost' (text), and 'Amount Paid' (text). At the bottom right are 'Entry' and 'Check' buttons.

10. Auto-generated Codes:

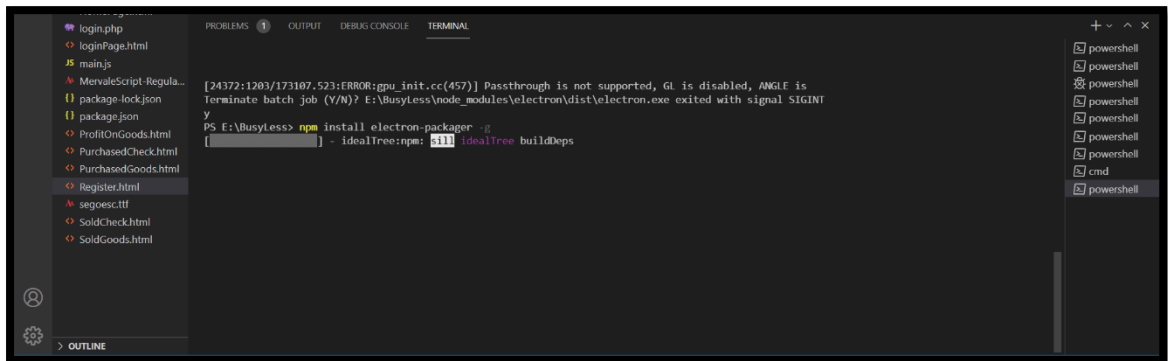
Customer code will get automatically generated for new customers and will be fetched in the form from the database. (Status: **PASSED**)



The screenshot shows the 'Sold goods record' form. On the left is a sidebar with the 'BusyLess' logo and links for 'Home Page' and 'Logout'. The main form area has a title 'Sold goods record' and several input fields: 'Goods Name' (text), 'Customer First Name' (text), 'Customer Middle Name' (text), 'Customer Last Name' (text), 'Quantity' (text), 'Type/Category' (dropdown menu with 'Electronics' selected), 'Date Sold' (date picker), 'Time Sold' (time picker), 'Discount%' (text), 'Sold Cost' (text), 'Amount Paid' (text), and 'Customer Code' (text). At the bottom right are 'Entry' and 'Check' buttons.

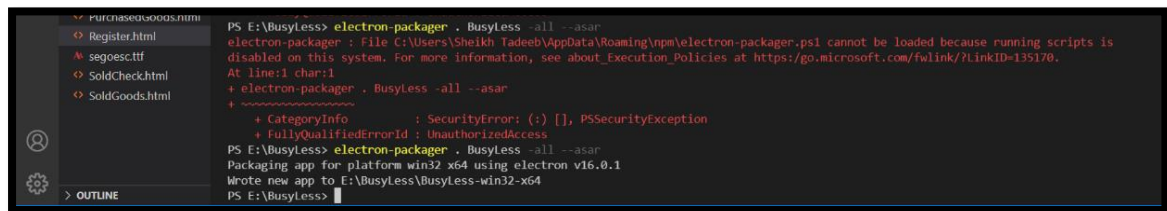
❖ Packaging the Application: -

To package my application, I have used electron-packager to package my application.

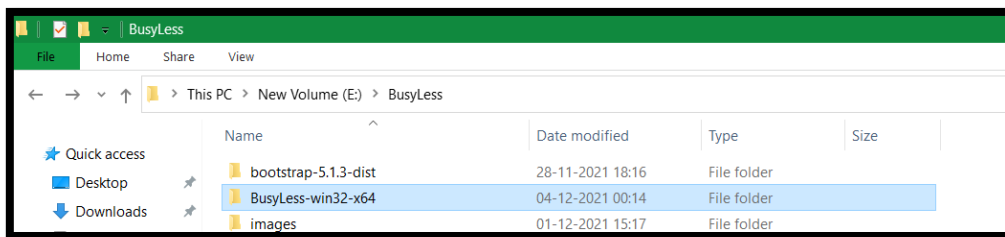


After installing electron-packager we need to package our app but it shows some error due to some PowerShell security policy, to fix it, I Just deleted electron-packager.ps1 file:

File C:\Users\Sheikh Tadeeb\AppData\Roaming\npm\electron-packager.ps1

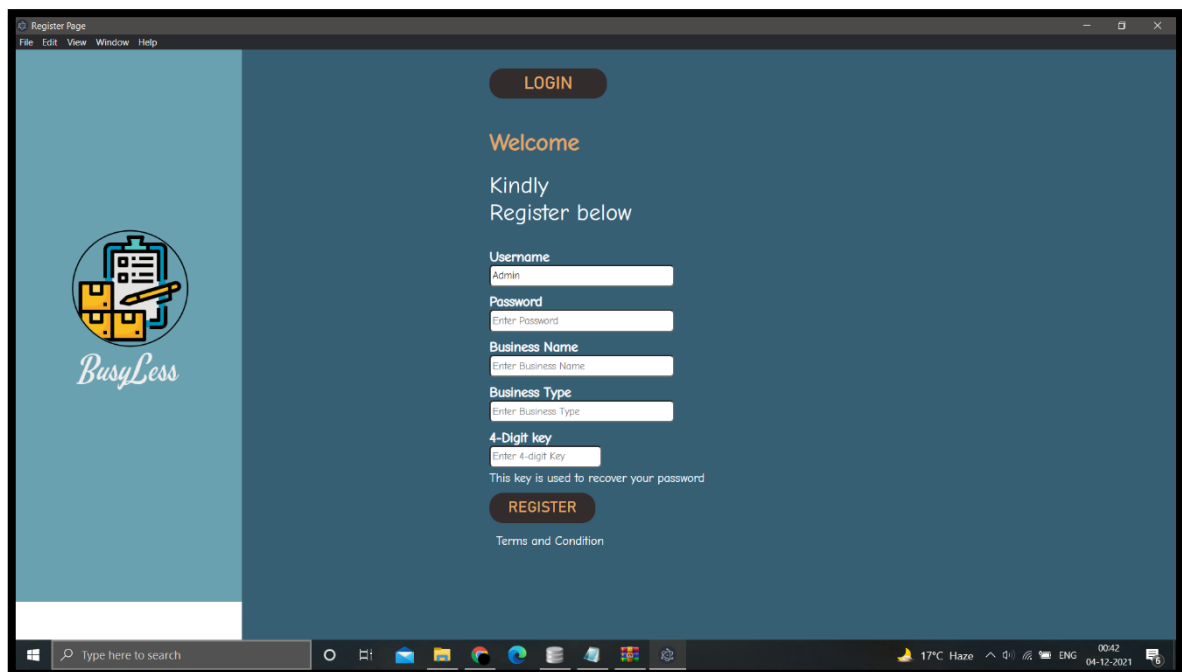
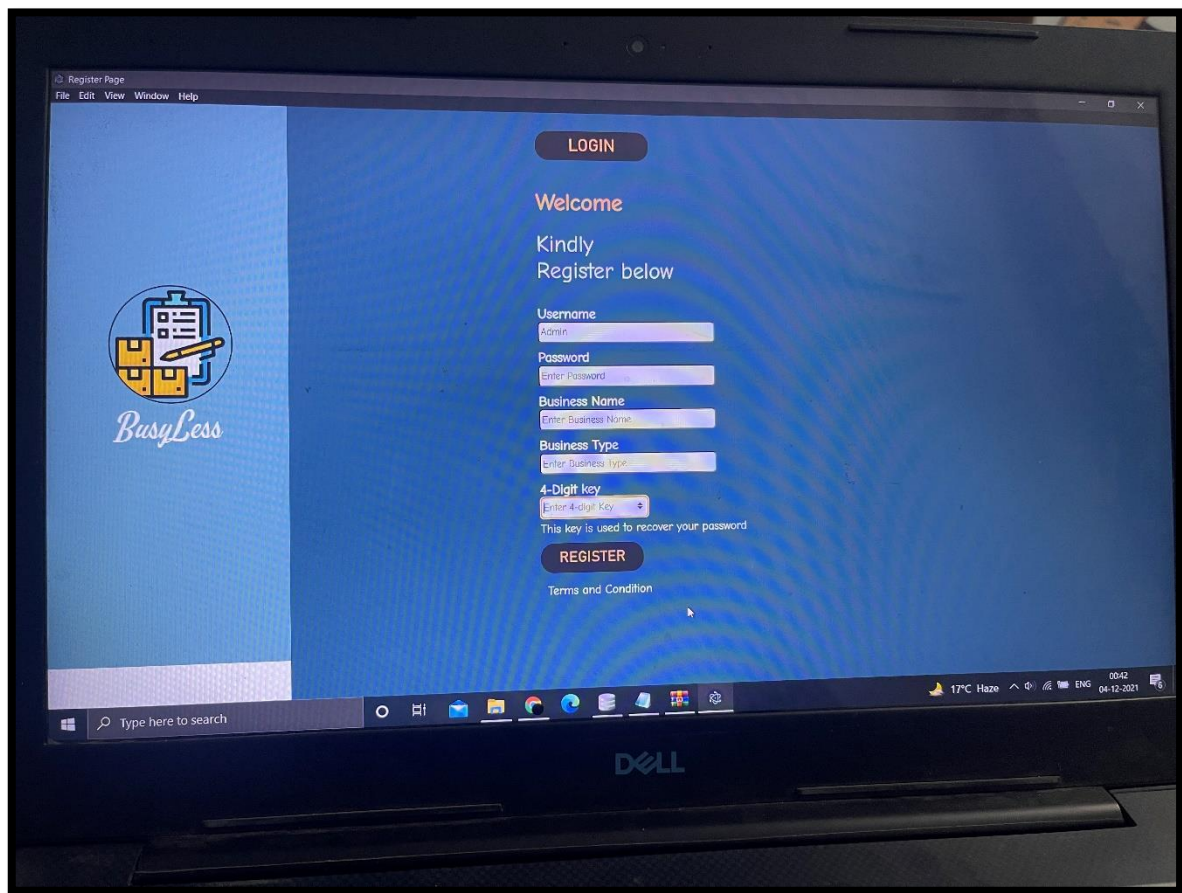


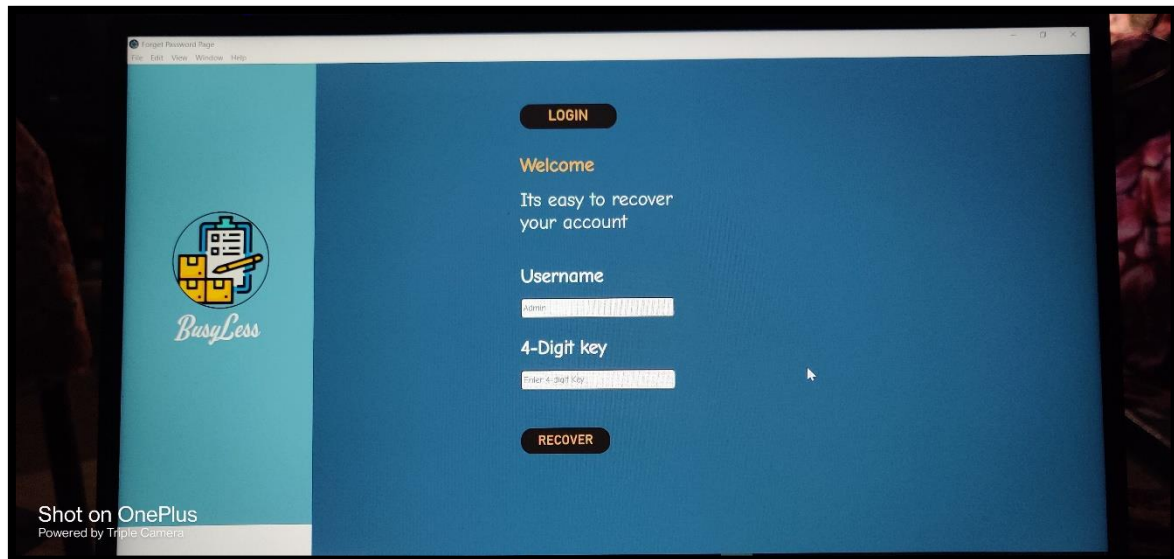
The Application is successfully packaged.



❖ Deployment of Application on different machine:-

I had deployed my application on my friend's laptop and it was successfully running.





❖ Black Box Testing:

Snos	Test Cases	Response time	Usability	Reliability
1.	Authentication	Very Quick	95%	95%
2.	Authorization	Very Quick	95%	95%
3.	User Control and Freedom	Quick	95%	95%
4.	Identification of Customer Code	Quick	80%	80%
5.	Visibility of system status	Very Quick	90%	90%
6.	Processing on Computer itself	Quick	98%	98%
7.	Searching by name	Quick	85%	85%
8.	API integration	—	0%	0%
9.	Authenticity of Profit values	Quick	98%	98%
10.	Taking Goods sold and purchased data from user	Very Quick	100%	100%
11.	Analysis data on Desktop Application	Quick	95%	95%
12.	Easy Navigation Dashboard	Quick	95%	95%
13.	Smart Decisions	Very Quick	98%	98%
14.	Alert Notifications	Quick	80%	80%

❖ Feedback from Stakeholder: -

Stakeholder Review

I had used the application made by Tadeeb. & I really liked it. specially is colour combination and simple aesthetics as business application should focus more on solving issues rather than aesthetics. of course aesthetics are important upto a limit. ~~Alt~~ although Tadeeb has covered all the requirements but there are some changes ~~with~~ ~~I~~ which I suggested him as ~~and~~ an end user. The first is the popup messages ~~with~~ which comes on screen every time I logging or do some entry, thats a bit annoying thing for me secondly the forms are little big. there could be some way to take audio input or input from saved data, it will be really a good help but overall I liked the approach and design of application wishing him success and luck.

[Signature]