Otrium Software Solution for Reporting

Coding Language: **PHP**

Database: **MySQL**

Database connection location

Home directory -> db/db_connection.php

Database Changes

Created a new table to login for user. Table name is `users`.

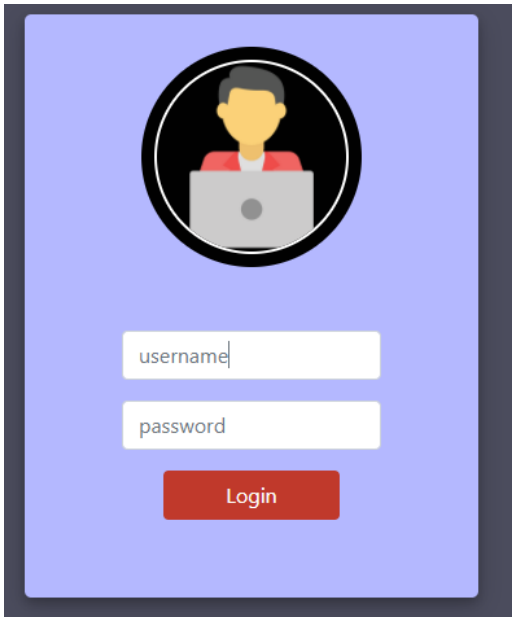
Modified database is shared. (otrium_db.sql)

Login Credentials

User Name: admin

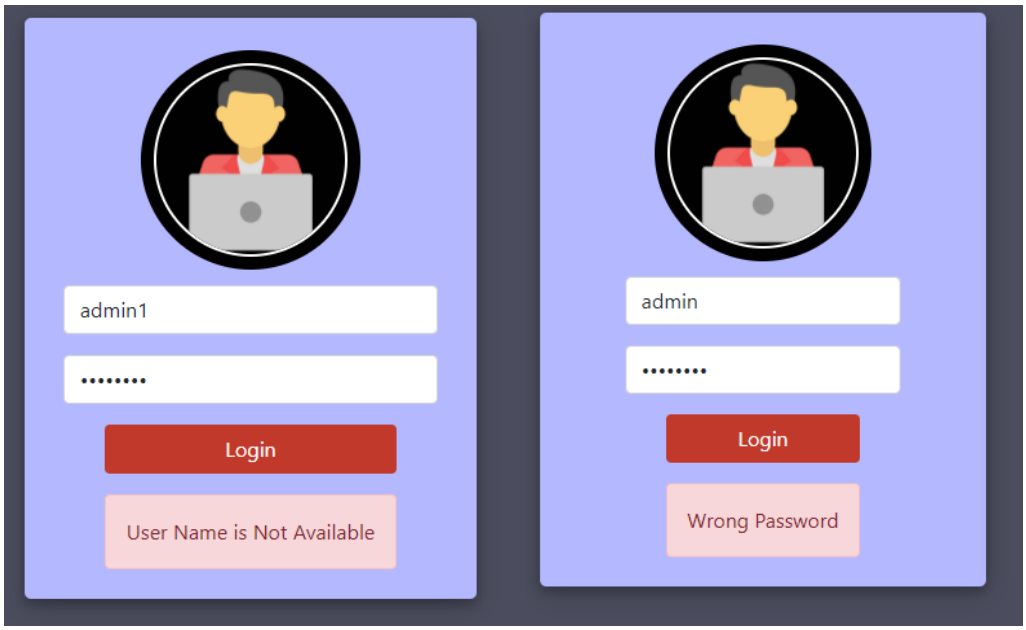
Password: Admin@123

* Logins are managed using PHP SESSIONs throughout the whole system. User must login to run the reports. If someone try to access by direct URL, it will automatically redirect to the login page.



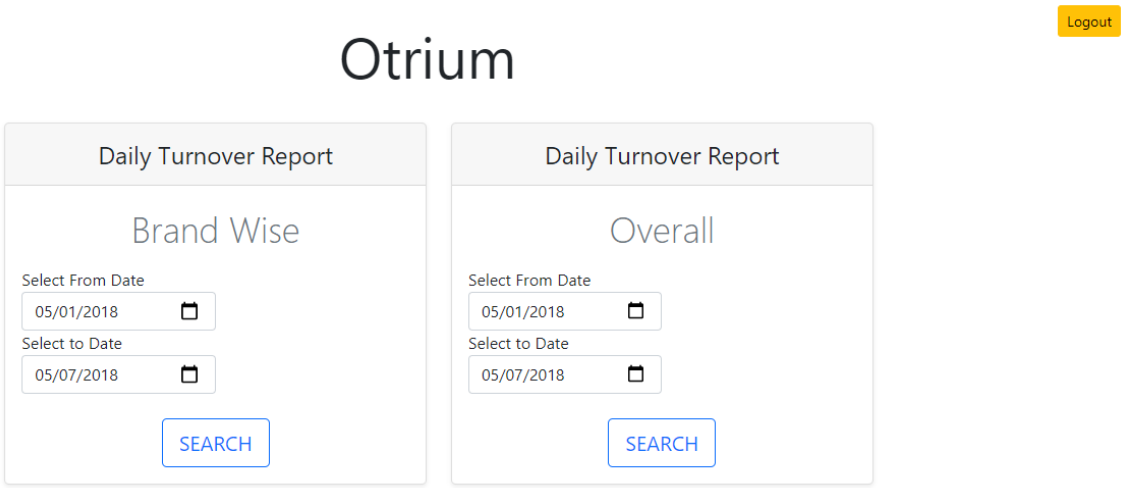
Login page

If user name or password is wrong, it will show warnings as below.



Warning messages

* User can select which report to run from home page. Dates are customizable and default dates have been set as per the assessment. By clicking on the 'Logout' button, user can log out from the system.



Home page

* Reports will be visible as below. Reports can be exported to CSV by clicking the ‘Export CSV’ button. ‘BACK’ button will take the user to Home page.

BACK Logout

Brandwise Turnover Report

01-May, 2018 to 07-May, 2018

Export CSV

BRAND NAME	01-May, 2018	02-May, 2018	03-May, 2018	04-May, 2018	05-May, 2018	06-May, 2018	07-May, 2018	TOTAL
O-Brand	8,787.82	9,118.55	6,650.04	495.63	24,999.44	2,291.46	27,069.72	**79,412.65**
T-Brand	18,765.07	33,354.07	644.21	17,262.47	32,605.23	1,062.64	21,653.54	**125,347.24**
R-Brand	26,530.95	9,665.72	33,378.83	32,895.40	7,152.93	22,158.21	8,209.62	**139,991.64**
I-Brand	6,859.88	4,543.96	8,551.51	28,759.21	3,102.76	26,808.54	4,440.24	**83,066.10**
U-Brand	22,304.74	21,454.25	27,727.44	27,845.55	31,086.80	31,589.12	7,943.58	**169,951.48**
M-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
X-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Y-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Z-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
Q-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
B-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
AA-Brand	0.00	0.00	0.00	0.00	0.00	0.00	0.00	**0.00**
TOTAL	**83,248.45**	**78,136.55**	**76,952.03**	**107,258.26**	**98,947.16**	**83,909.97**	**69,316.69**	**597,769.12**

Brandwise Turnover Report

Overall Turnover Report - Per Day

BACK Logout

01-May, 2018 to 07-May, 2018

Export CSV

DATE	TOTAL TURNOVER
01-May, 2018	83,248.45
02-May, 2018	78,136.55
03-May, 2018	76,952.03
04-May, 2018	107,258.26
05-May, 2018	98,947.16
06-May, 2018	83,909.97
07-May, 2018	69,316.69
TOTAL	**597,769.12**

Overall Turnover Report

Note on the Program (Technical)

- Database connection details are in ‘db’ directory
- HTML head file is located in ‘headers’ directory
- Home page, Login page and Logout function are located in ‘page’ directory
- Reports views and export to csv parts are located in ‘reports’ directory
- Query functions are located in ‘query_models’ directory
- Export to CSV library is located in ‘phptocsv’ directory
- Additionally ‘Bootstrap’ and external style sheet in assets are used for UI development purposes.

Security Details

- In database `users` table password field is encrypted.
- Users cannot access report or home URL without signing in.
- When deploying the database in server, MUST use a strong password.

Test Cases

Executed	Passed	15
	Failed	0
	Total	15

No	Action	Inputs	Expected Output	Actual Output	Test Result
1	Login with no inputs	no inputs	Cannot Login	Cannot Login	PASS
2	Login with only username	user name : admin, password : *empty*	Cannot Login	Cannot Login	PASS
3	Login with only password	user name : e*mpty,* password : Admin@123	Cannot Login	Cannot Login	PASS
4	Login with wrong username and wrong password	user name : adminsa, password : admin@123456	Cannot Login	Cannot Login	PASS
5	Login with correct username and wrong password	user name : admin, password : admin@123456	Cannot Login	Cannot Login	PASS
6	Login with wrong username and correct password	user name : adminsa, password : Admin@123	Cannot Login	Cannot Login	PASS
7	Login with correct username and correct password	user name : admin, password : Admin@123	Cannot Login	Cannot Login	PASS
Daily Turnover Report Brandwise					
8	Select from and to date with data in database	from : 2018-05-01, to : 2018-05-07	Show data within date range	Show results within date range	PASS
9	Select from and to date where there is no data in database	from : 2021-05-01, to : 2021-05-07	Show 0 values	Show 0 values	PASS
10	Select from as a bigger date and to as a smaller date	from : 2021-05-07, to : 2021-05-01	Cannot show data	Cannot show data	PASS
11	Export to CSV	Button click 'Export CSV'	Download CSV File with data shown in the table	Download CSV File with data shown in the table	PASS
Daily Turnover Report Overall					
12	Select from and to date with data in database	from : 2018-05-01, to : 2018-05-07	Show data within date range	Show results within date range	PASS
13	Select from and to date where there is no data in database	from : 2021-05-01, to : 2021-05-07	Show 0 values	Show 0 values	PASS
14	Select from as a bigger date and to as a smaller date	from : 2021-05-07, to : 2021-05-01	Cannot show data	Cannot show data	PASS
15	Export to CSV	Button click 'Export CSV'	Download CSV File with data shown in the table	Download CSV File with data shown in the table	PASS