



**JDBC ASSIGNMENT
REPORT MADE BY
Gourav Ganguly
(A00268742)**

SUBSCRIPTIONS MANAGEMENT SYSTEM

The main aim of developing this system is to manage subscriptions of a people using different services like Electricity, WiFi and Mobile Connection. When registering the user there is an option of the subscriptions the user wants. It can be a single or a combination of subscriptions. Using this system the admin can manage subscriptions of different services with ease and perform CRUD operations on particular user or group of users. They also have the option of exporting data of individual group of users or all data.

Using this System there is also efficient login service which authenticates the admin. This is used to help the users in the modern times in the age of the internet.

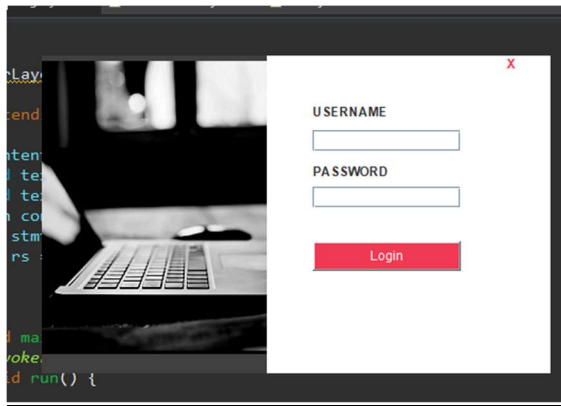
Main features of the system:

- Prepared Statements
- Stored program
- CRUD and data visualization
- JOIN in tables to display data
- Layered Panel for easy access
- All data export option
- Exporting of various user details into .csv Excel files

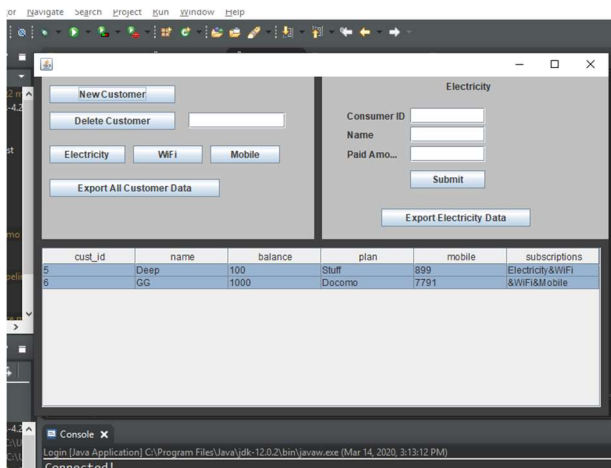
JDBC ASSIGNMENT

SNAPSHOTS

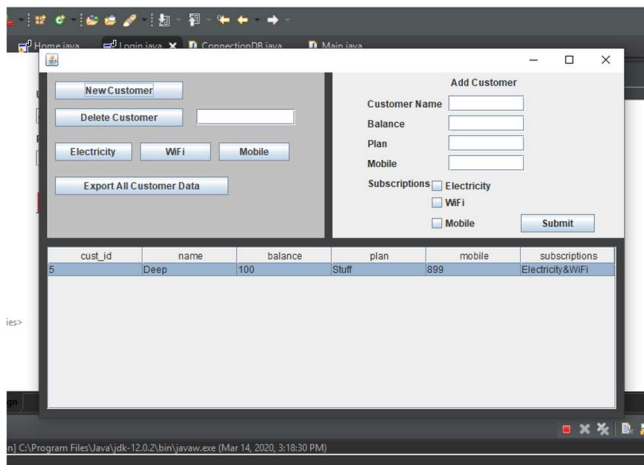
Login Frame



Admin View



Insert record



JDBC ASSIGNMENT

Update Record

The screenshot shows a Java application window titled 'WIFI'. On the left, there are buttons for 'New Customer', 'Delete Customer' (with a text input field), 'Electricity', 'WIFI' (highlighted), 'Mobile', and 'Export All Customer Data'. On the right, the 'WIFI' form includes fields for 'Consumer ID', 'Name', 'Plan' (a dropdown menu showing 'Vodafone'), and 'Paid Amou...' (truncated). There are 'Submit' and 'Export WIFI Data' buttons. Below the form is a table with the following data:

cust_id	name	balance	plan	mobile	subscriptions
5	Deep	100	Stuff	899	Electricity&WIFI

Delete Record

The screenshot shows a Java application window titled 'Mobile'. On the left, there are buttons for 'New Customer', 'Delete Customer' (with a text input field), 'Electricity', 'WIFI', 'Mobile' (highlighted), and 'Export All Customer Data'. On the right, the 'Mobile' form includes fields for 'Mobile No.', 'Name', and 'Bill paid'. There are 'Submit' and 'Export Mobile Data' buttons. Below the form is a table with the following data:

cust_id	name	balance	plan	mobile	subscriptions
5	Deep	100	Stuff	899	Electricity&WIFI

Search View

The screenshot shows a Java application window titled 'Electricity'. On the left, there are buttons for 'New Customer', 'Delete Customer' (with a text input field), 'Electricity' (highlighted), 'WIFI', 'Mobile', and 'Export All Customer Data'. On the right, the 'Electricity' form includes fields for 'Consumer ID', 'Name', and 'Paid Amou...' (truncated). There are 'Submit' and 'Export Electricity Data' buttons. Below the form is a table with the following data:

cust_id	name	balance	plan	mobile	subscriptions
5	Deep	100	Stuff	899	Electricity&WIFI
6	GG	1000	Docomo	7791	&WIFI&Mobile

At the bottom, a console window shows the message: 'Login [Java Application] C:\Program Files\Java\jdk-12.0.2\bin\javaw.exe (Mar 14, 2020, 3:13:12 PM) Connected!'

CONCLUSION

The subscription management system helps us to efficiently manage user subscriptions and the user data itself for better visualization and better management of the user and the subscriptions and is very helpful using the power of MySQL database and JDBC Java application to provide an end system which has quality management and is helpful for the users to see their balance and for the admin to manage the subscriptions and payment details of the user. Thus keeping track of details like WiFi subscription, Electricity and Mobile plans and the account balance to manage subscription.

Learnings from this project:

The learnings of this project are:

- JDBC Connection
- Using Java export features
- CRUD operation
- SQL statements
- Window Builder GUI
- MySQL database management
- Data Visualization