

Java1 Final Project2

project name: **EPower App**

Requirement Analysis

- This application should allow tellers(users) to buy cash-power for customers with any desired amount.
- Lets assume we have only five customers registered with our cash power system. You can create a variable that will hold the following customers and their meters:

Customer name	meter number
Modou Mbye	092001
Fanta Jobe	092002
Haddy Jammeh	092003
Peter Mendy	092004
Yahya Badjie	092005

- The user(teller) should be shown a list of customers in a dropdown where he/she can select the name of the customer who is buying cash-power and then the amount.
- When a teller selects a particular customer who's buying cash-power, you should get the position of the customer and find also find the corresponding meter number.
- Teller should be shown the customer whom they are buying cash-power for (the name of the customer)
- No customer can purchase a cash power with an amount less than GMD50, your program should be able to prompt the teller's *error message* and keep running, and your program should not crash because of wrong input by teller. You should handle all exceptions
- The EPower service has charges fee of different ranges:

Range	Charges
<= 150	3
<= 350	6
<= 1000	8
> 1000	10

Your program should deduct charges from the amount before buying cash power

- After buying cash power successfully, your program should generate random token numbers of 20 digits (4 digits together). see demo below:

```
Customer Name: Yahya Badjie
Meter Number: 092005
Power Amount: GMD400.00
Service Fee : GMD6.00
Token       : 6044 3371 4771 8829 9899
Units       : 20.30kwh
Date        : 20-12-2022 15:35:22
```

Happy coding!