User: use Meter and paid for the factory not able to access the meter

|  |  |  |
| --- | --- | --- |
| - Id  - Name  - Address  - Payment Status  - Type  - Meter number | + Alter function:  + Check function |  |

Factory: Control the user and be able to change the meter

|  |  |  |
| --- | --- | --- |
| - Price type | + Alter function  + Read file of users  - Listing?  + Search for personal info of a user  + Search for historical record of a specific user (can we show the chart here)  \*Note: We might not have to make all these function in side this class |  |

Meter: Show the consumption to the user and can be alter by the factory

|  |  |  |
| --- | --- | --- |
| - Number  - User  - Date (record the day user pay in an array)  - Monthly  - Daily  - Yearly  - Status (on or off if user did not pay) | - Alter function  - Calculate money  - Record?  - Limit? |  |

Engine: engine cai dmle ay

|  |  |  |
| --- | --- | --- |
|  | - Input the number of households  - Input household info  - Update household info  - Delete household  - Update meter info  - Update payment status  - Choose type of price  - Auto increment payment status  - Display household info  - Display historical record of a specific household (Why do we need this when we already have the plot?)  - Calculate consumption and payment  - Plot function (Choose what you wanna do)  - Plot electric consumption of a specific household  - Plot electric consumption of an area  - Plot electric cost of a specific household  - Plot electric cost of a specific area  - List price  - List paid (list all and then use filter) = List household  + List paid household  + List not-yet-pay household  - Print bill (Use Gui here to get a sample of the bill) |  |