

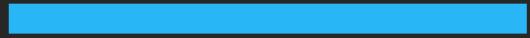
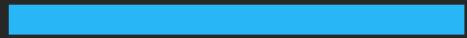
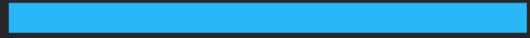
SOFTWARE ENGINEER

Numfor Elmer Chenemo

Portfolio

2022

Skill Set:

- Artificial Intelligence [A.I] 
- Machine Learning [M.L] 
- Data Science 
- Internet of Things [IoT] 
- Embedded Systems 
- Desktop App Development 
- Web App Development 
- Mobile App Development 

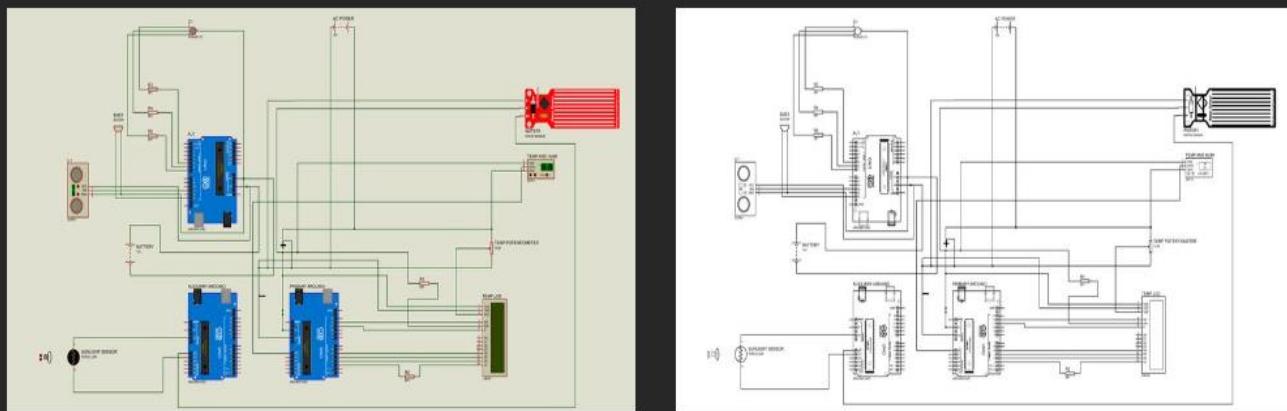
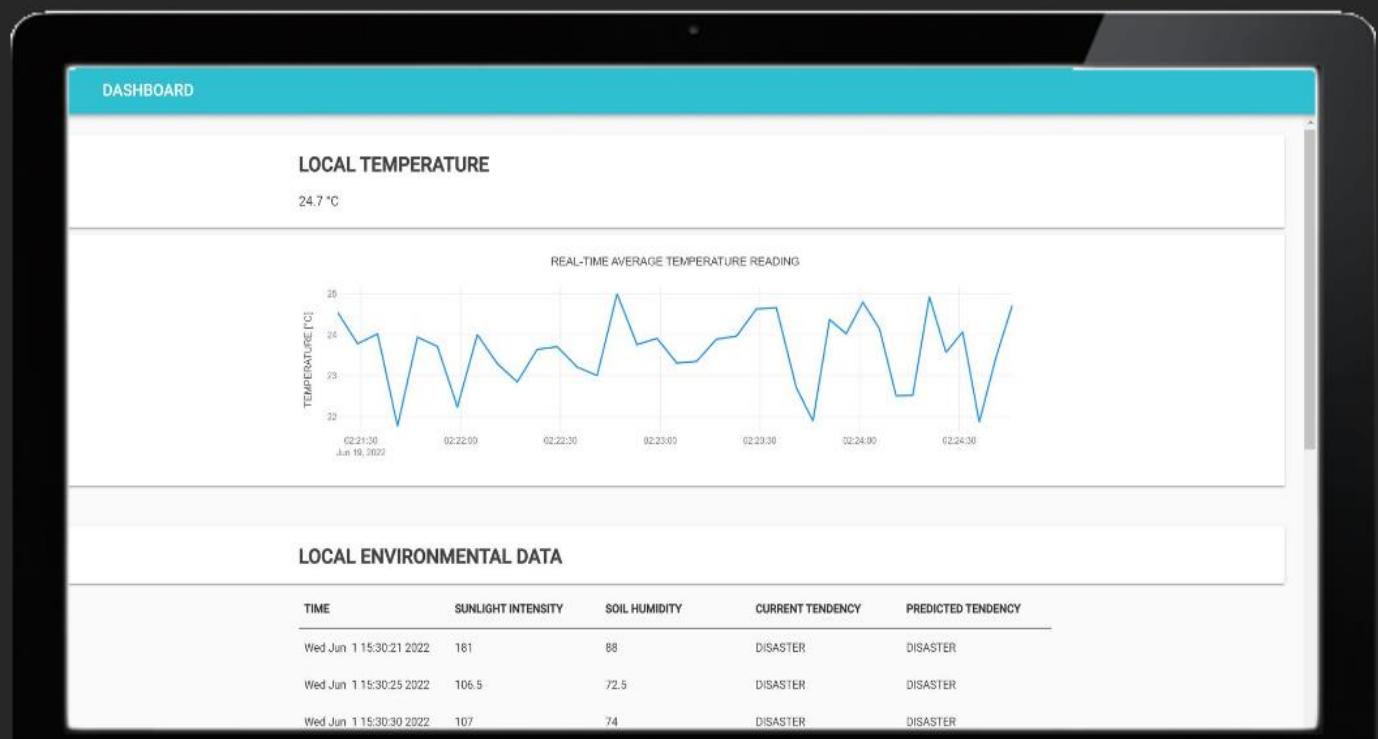


About:

Growing up as a Science Fiction enthusiast, Science and Technology have always been a passion for me. The desire for new challenges and the excitement of accomplishment is, to say the least about me. I have an education level of B.Sc in Software Engineering, with my speciality being A.I and Machine Learning. Aside from Science and Technology, I also like sports and art, which further boost my productivity physically and mentally.

My Projects:

1. Natural Disaster Prediction System



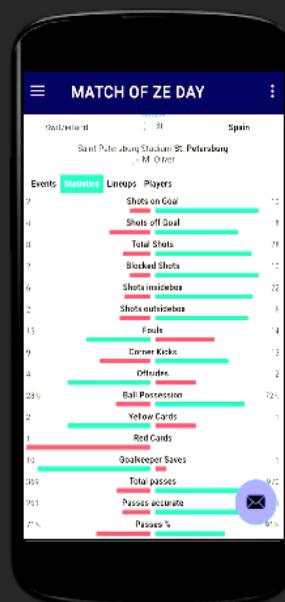
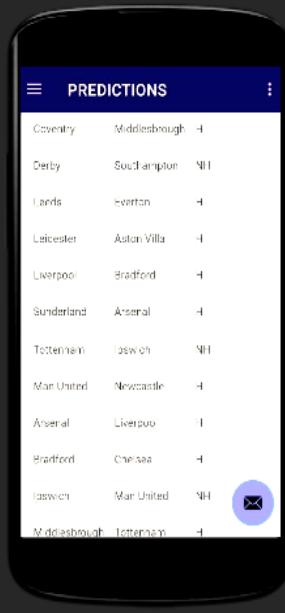
This project aims at predicting natural disasters, specifically landslides. Data such as precipitation, temperature, air humidity, soil humidity and sunlight intensity are collected using IoT devices, stored in a database and mined with Machine Learning algorithms to determine the possibility of a landslide. In the future, this project will be improved upon to include the prediction of more disaster types other than landslides.

2. Premier Predict



PREMIER PREDICT is a mobile app which helps users predict football match outcomes based on historic data about the teams playing.

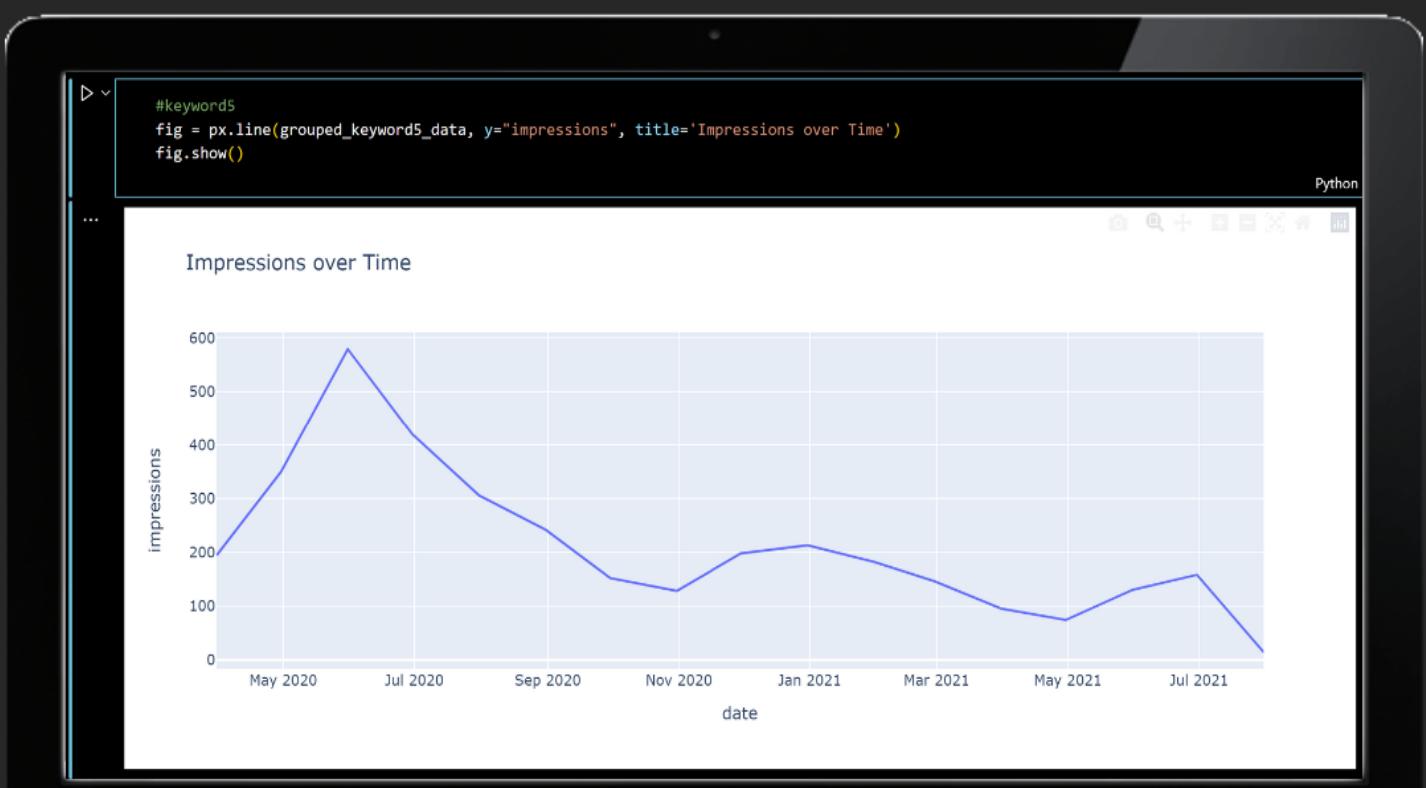
Predictions are made using a machine learning algorithm that mines data using from collected from public data warehouses. Data since the early 2000s was collected to train the AI which powers this app.



Aside from predictions, this app also permits the user to follow live updates on matches. Live events such as goals, fouls, shots, saves, formations, substitutions, players, managers and many other important statistics can be followed up with this app.

Project 2

3. SEO Keyword Trend Predictor



		Top pages	Clicks	Impressions	CTR	Position	Predicted Clicks
0	https://terraexploration.space/kaspersky-causi...	411	3923	10.48	17.52		0.0
1	https://terraexploration.space/moto-g7-optimo...	103	3598	2.86	21.33		0.0
2	https://terraexploration.space/moto-g7-optimo...	97	3064	3.17	29.68		0.0
3	https://terraexploration.space/how-to-install-...	60	9602	0.62	19.36		0.0
4	https://terraexploration.space/avast-bsod-wind...	40	2462	1.62	38.46		0.0
...
422	https://terraexploration.space/fr/category/tec...	0	1	0.00	100.00		NaN
423	https://terraexploration.space/tag/moto-g7-opt...	0	1	0.00	101.00		NaN
424	https://terraexploration.space/fr/tag/magnetic...	0	1	0.00	113.00		NaN
425	https://terraexploration.space/tag/cowin-e7-ac...	0	1	0.00	138.00		NaN
426	https://terraexploration.space/tag/how-to-buy-...	0	1	0.00	139.00		NaN

This project aims at predicting the future trends of keywords for any given website. Using Machine Learning Algorithms and connecting APIs, data such as clicks, impressions, click-through rate [CTR] and position, are mined from a web analytics data warehouse such as Google Search Console and Google Analytics. This data is then used by the algorithms to determine and predict future tendencies of these keywords, in order to help content creators decide which keywords to invest their time in.

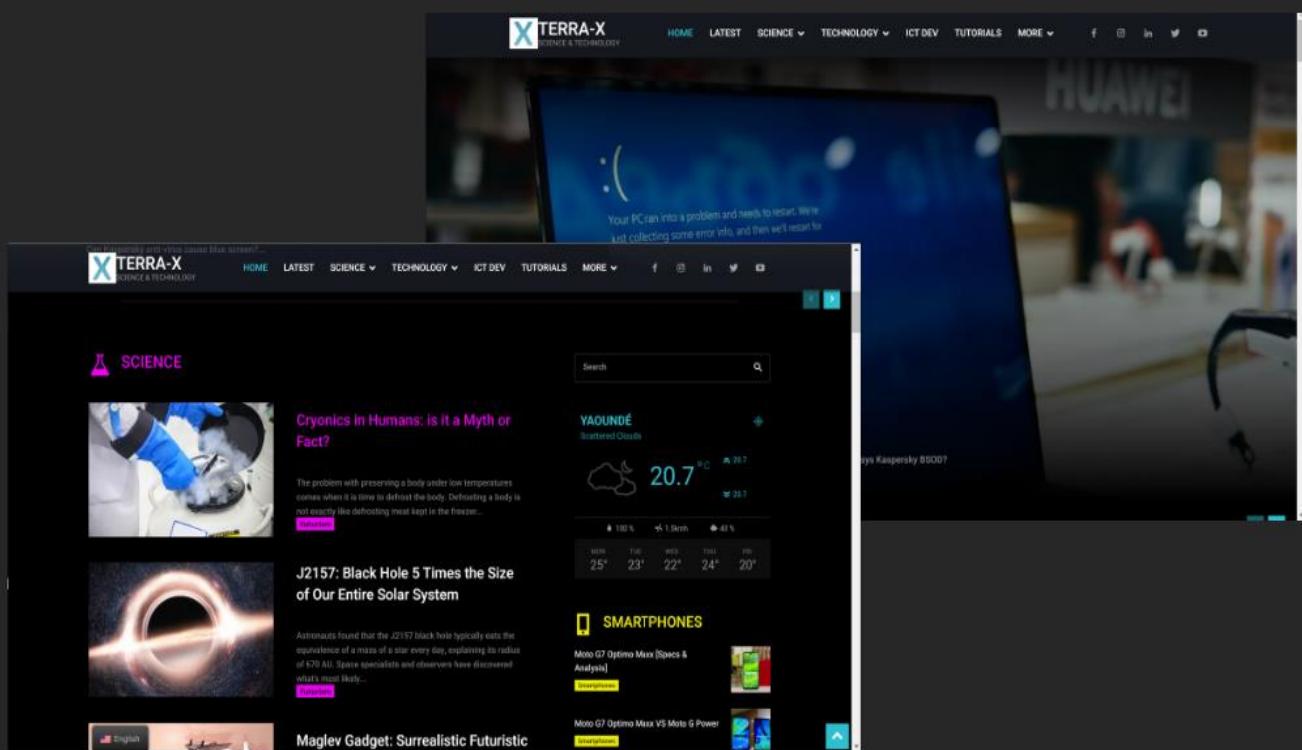
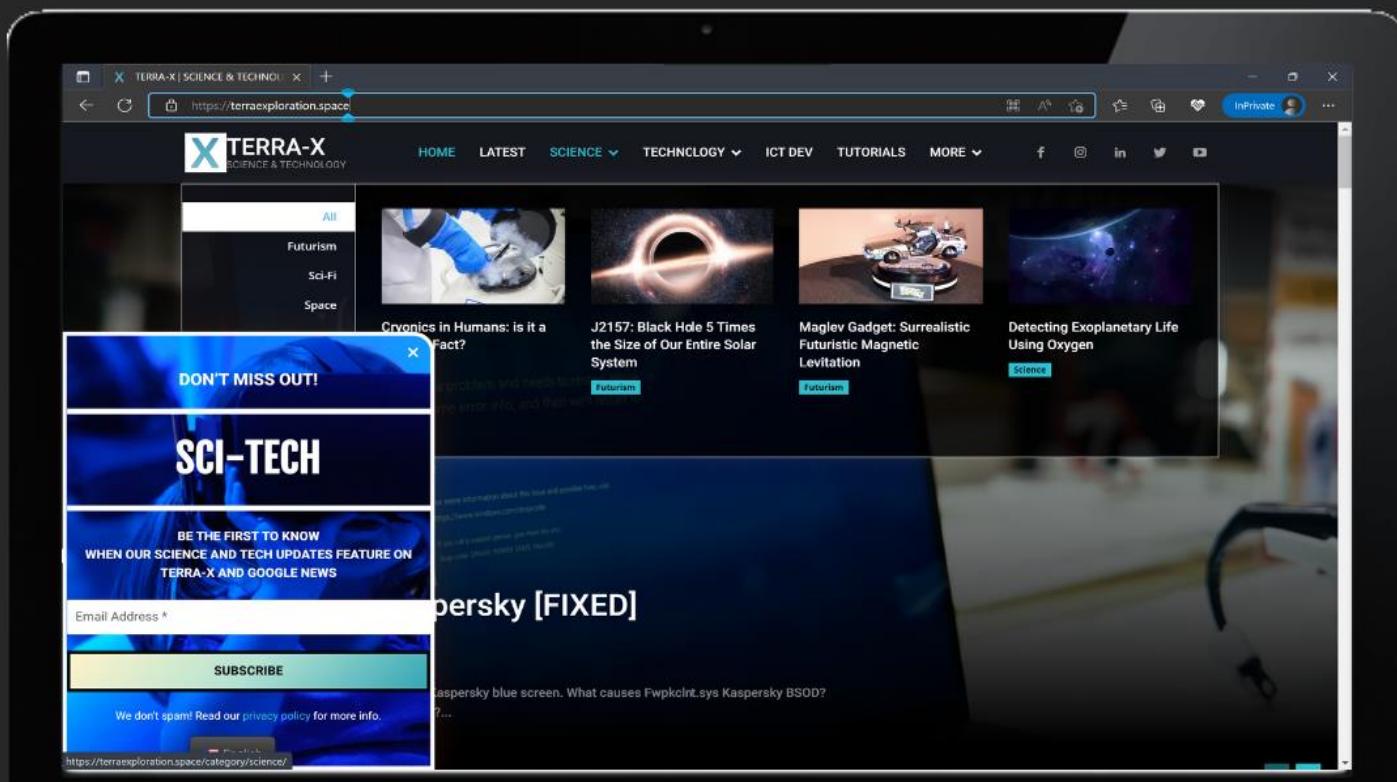
4. Voice Assistant



The voice assistant is a project aimed at facilitating the life of a person or people living with disabilities. This project consists of software listening to voice commands issued by the user, through the computer's microphone and processes those commands to produce either a vocal response through the computer's speaker or to take action by commanding microcontrollers connected to execute commands such as switching lights on, lights off, opening doors or closing doors and so on. A little futuristic touch was added to the app's UI to make it look more attractive.

Project 4

5. TERRA-X SCI-TECH



TERRA-X SCI-TECH is my personal website where I talk about science and technology.

Together with a team of other engineers, we maintain and update the website frequently.

This website also served as a test site for the SEO Keyword Trend Predictor.

Project 5

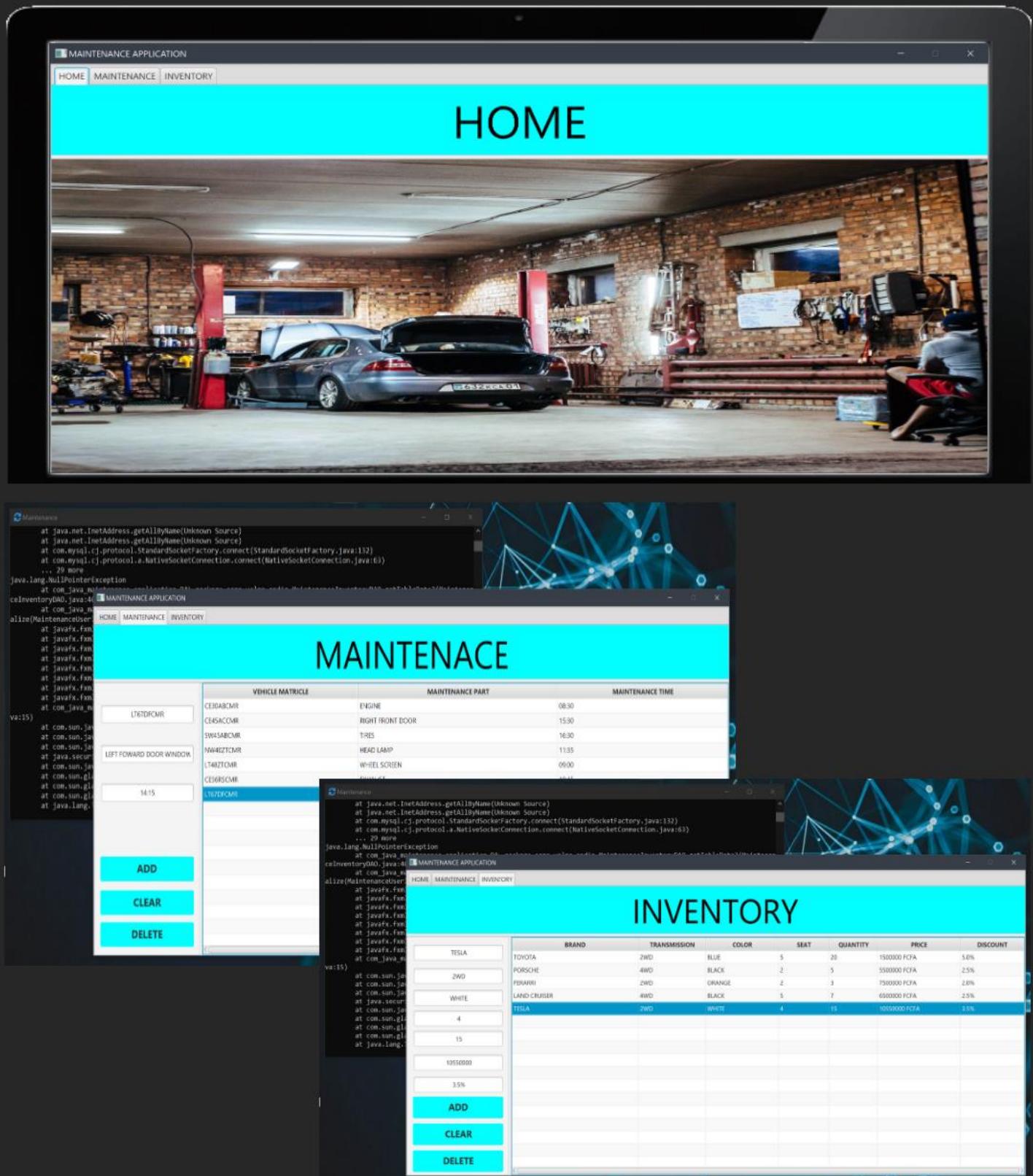
6. Project Management System

The image displays three screenshots of a web-based project management application:

- Home Page:** Shows a large server icon with glowing blue data points. Below it is a white box containing the word "MINPOSTEL". A smaller text below the box reads: "MINPOSTEL is a tech organization in cameroon which manages the distribution of information and".
- Login Page:** Features a teal header with the "MINPOSTEL" logo. Below it is a "LOGIN HERE" button. A form is present with a "Username" field containing "admin" and a "Password" field with a redacted password.
- Admin Dashboard:** Shows a table titled "CAMPOST PROJECTS" with 8 rows. The columns are: MATRICLE, TITLE, STATUS, UPDATE, and DELETE. A modal window titled "CAMPOST PROJECT REGISTRATION FORM" is open, showing fields for "Title" (containing "Project 25") and "Status" (containing "Incomplete"). Buttons for "CLOSE" and "SAVE" are visible at the bottom of the modal.

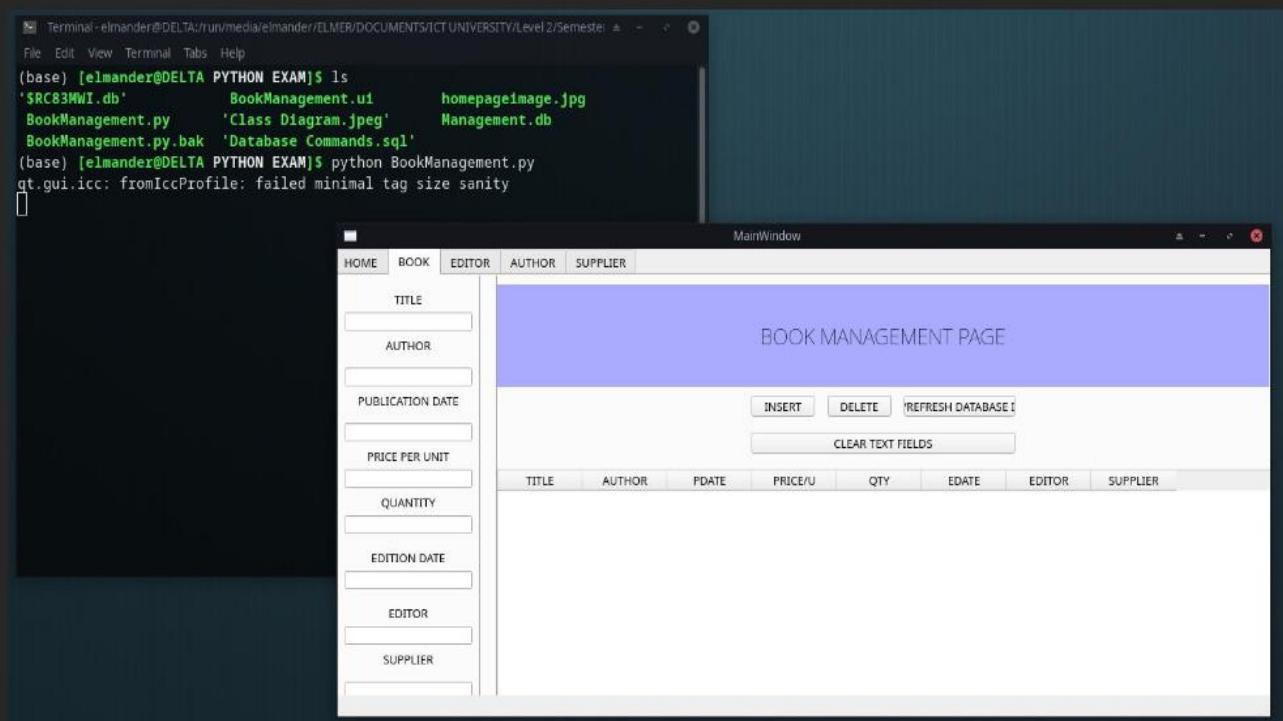
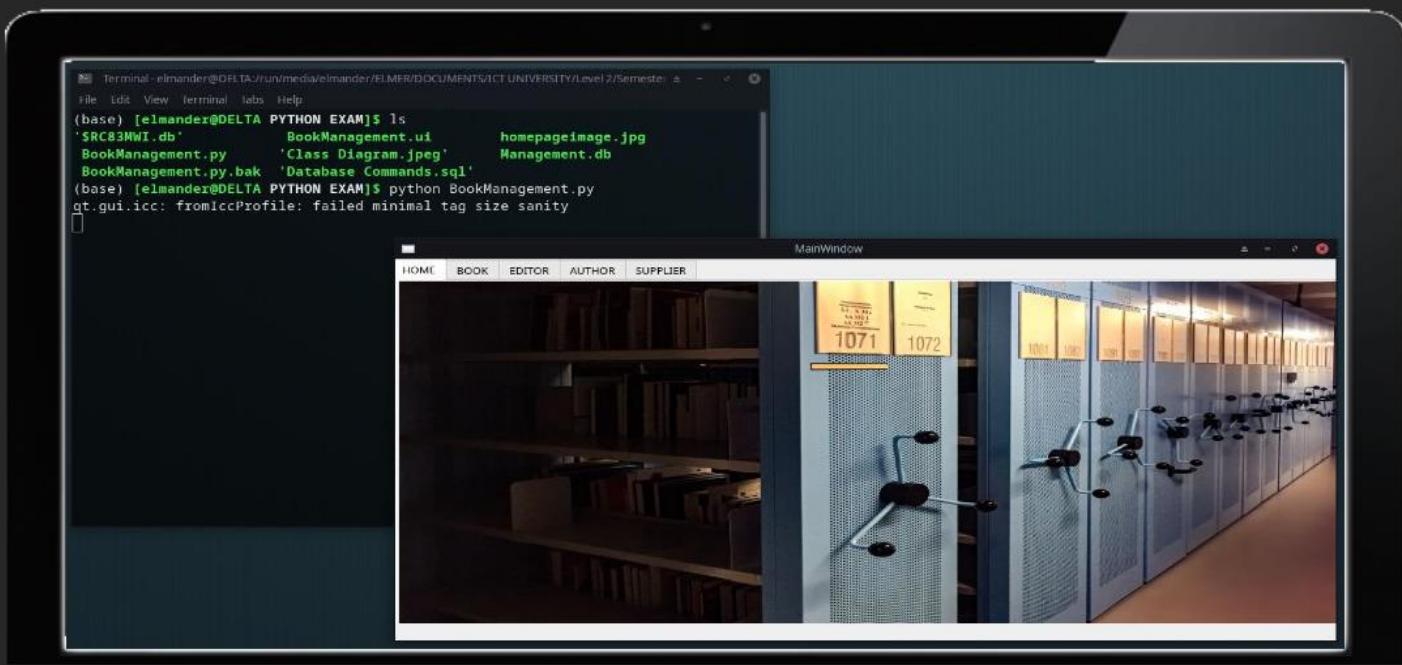
This is a web application which permits users to organise their projects. It assists in planning and keeping track of the overall progress of individual or enterprise projects, handled by few or many people at a time.

7. Vehicle Management System



This is a desktop application which permits users to organise their vehicles. It assists in planning and keeping track of the overall condition of individual or enterprise vehicles, handled by few or many people at a time.

8. Library Management System



This is a desktop application which permits users to organise their books. It assists in planning and keeping track of the overall condition of library books, handled by a few or many people at a time.

9. Birth Archive

The image shows two screenshots of a desktop application titled "SKYLINE BIRTH ARCHIVE || N.ELMER".

Screenshot 1 (Top): A file browser window showing a list of files: BC001.png, BC002.jpg, BC003.png, and BC004.jpg. The background shows a network graph visualization.

Screenshot 2 (Bottom): The main application window with a dark blue header and a light blue sidebar. The sidebar contains buttons for "HOME" (highlighted), "MANAGE", "ADD PERSON", "DELETE PERSON", "OPEN FILE", and "REMOVE FILE". The main area displays a table of birth records:

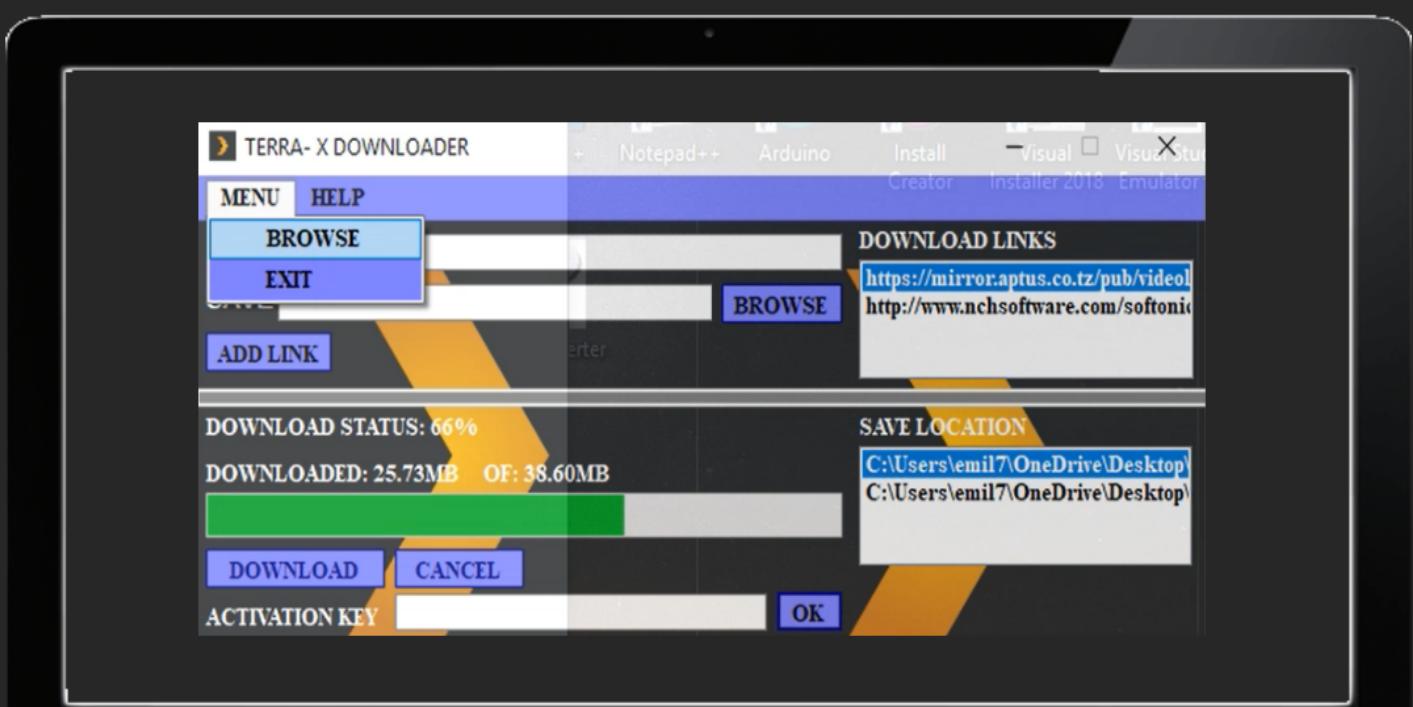
NAME	DOB	POB	SEX	FILE
Kelly Morgan	2015-01-15	Cameroon	Female	BC001.png
John Doe	2015-01-15	Kenya	Male	BC002.jpg
Siara Malone	2015-01-15	South Africa	Female	BC003.png
Jonas Bright	2015-01-15	United States	Male	BC004.jpg

To the right of the table, a birth certificate document is displayed. The document is from the "REPUBLIC OF CAMEROON" and is dated "18 Decembre 1980". It includes fields for "NAME", "GENDER", "DATE OF BIRTH", "PLACE OF BIRTH", "PARENTS", and "SIGNATURE". A red stamp at the bottom right reads "Signature du Directeur d'Etat Civil".

Below the certificate, the text "PATH: C:\Users\elmer\Documents\NetBeansProjects\birthcert" is shown, followed by a "PREVIEW" button.

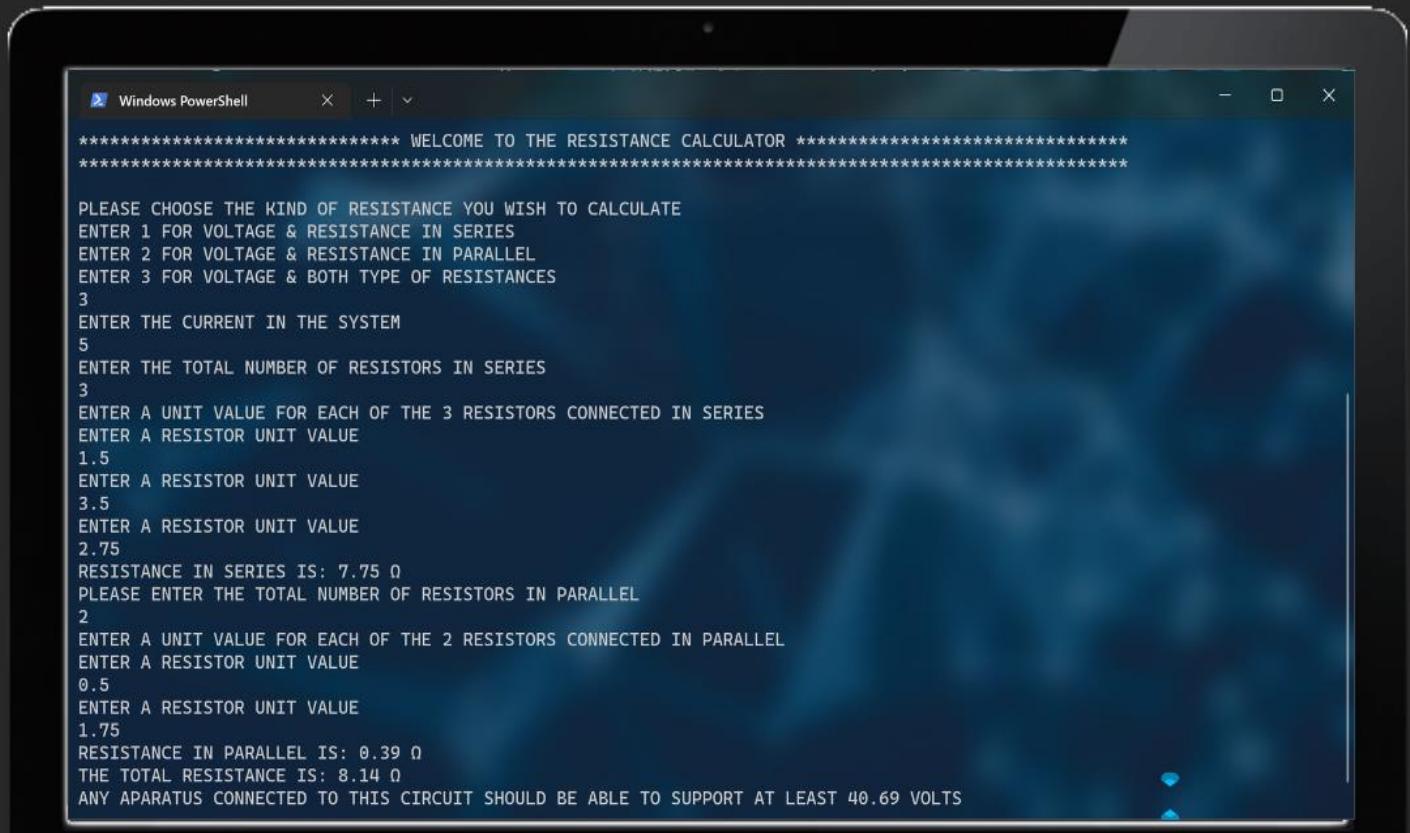
This is a desktop application which could permit the city council to organise their inhabitant status. It assists in recording and keeping track of births, in a given community.

10. TERRA-X DOWNLOAD MANAGER



As its name implies, this is a desktop application which permits a user to organise their downloads on a PC. It assists in the planning and monitoring of user downloads, going on at a given time. This app will get download from links and save them in the desired location of a user in their PC.

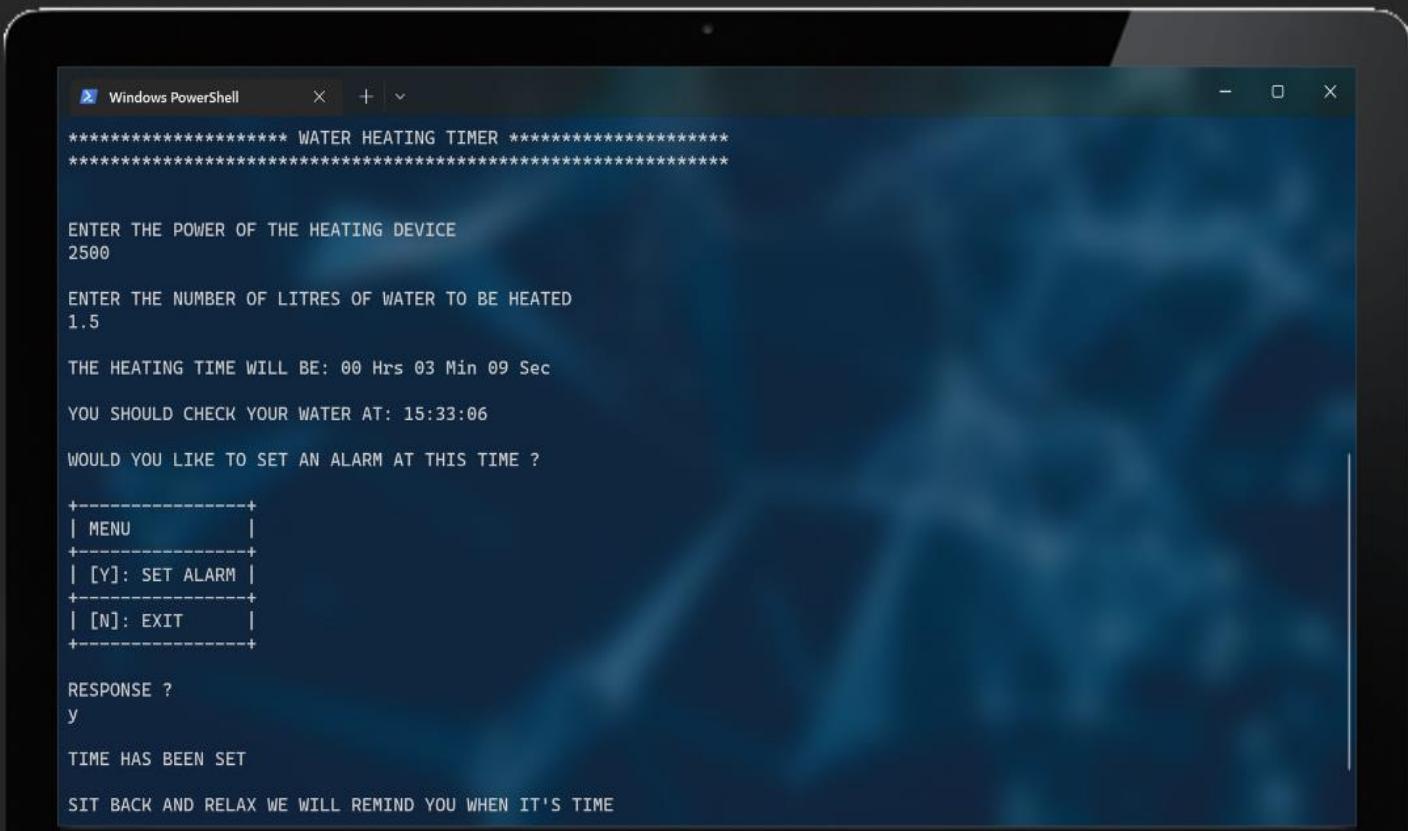
II. Electric Circuit Analyzer



```
Windows PowerShell * * * * * WELCOME TO THE RESISTANCE CALCULATOR * * * * *
* * * * * PLEASE CHOOSE THE KIND OF RESISTANCE YOU WISH TO CALCULATE
ENTER 1 FOR VOLTAGE & RESISTANCE IN SERIES
ENTER 2 FOR VOLTAGE & RESISTANCE IN PARALLEL
ENTER 3 FOR VOLTAGE & BOTH TYPE OF RESISTANCES
3
ENTER THE CURRENT IN THE SYSTEM
5
ENTER THE TOTAL NUMBER OF RESISTORS IN SERIES
3
ENTER A UNIT VALUE FOR EACH OF THE 3 RESISTORS CONNECTED IN SERIES
ENTER A RESISTOR UNIT VALUE
1.5
ENTER A RESISTOR UNIT VALUE
3.5
ENTER A RESISTOR UNIT VALUE
2.75
RESISTANCE IN SERIES IS: 7.75 Ω
PLEASE ENTER THE TOTAL NUMBER OF RESISTORS IN PARALLEL
2
ENTER A UNIT VALUE FOR EACH OF THE 2 RESISTORS CONNECTED IN PARALLEL
ENTER A RESISTOR UNIT VALUE
0.5
ENTER A RESISTOR UNIT VALUE
1.75
RESISTANCE IN PARALLEL IS: 0.39 Ω
THE TOTAL RESISTANCE IS: 8.14 Ω
ANY APARATUS CONNECTED TO THIS CIRCUIT SHOULD BE ABLE TO SUPPORT AT LEAST 40.69 VOLTS
```

As its name implies, this is a desktop command line application which permits a user to analyze electric circuits. It determines whether a device is safe for connection to an electric circuit, by calculating the voltage output of that circuit and comparing it to the voltage supported by the device which will be connected to that circuit.

12. Water Heating Reminder

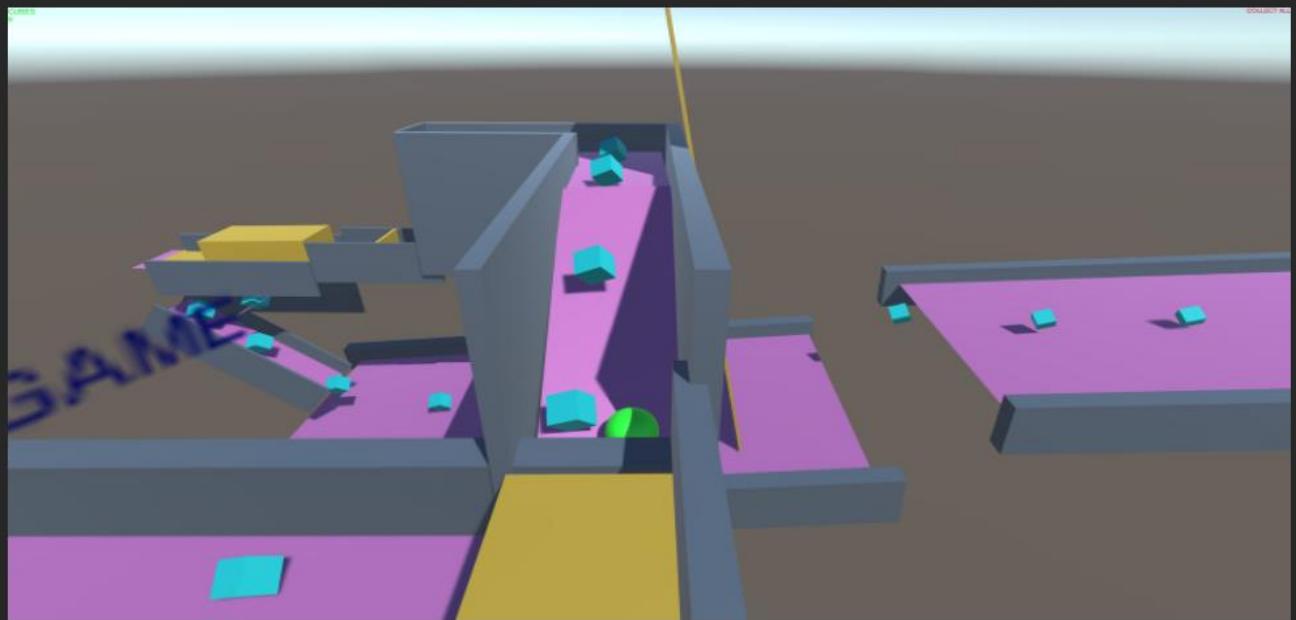


The screenshot shows a Windows PowerShell window titled "Windows PowerShell". The application displays a series of prompts and calculations related to water heating:

```
***** WATER HEATING TIMER *****  
*****  
ENTER THE POWER OF THE HEATING DEVICE  
2500  
ENTER THE NUMBER OF LITRES OF WATER TO BE HEATED  
1.5  
THE HEATING TIME WILL BE: 00 Hrs 03 Min 09 Sec  
YOU SHOULD CHECK YOUR WATER AT: 15:33:06  
WOULD YOU LIKE TO SET AN ALARM AT THIS TIME ?  
+-----+  
| MENU |  
+-----+  
| [Y]: SET ALARM |  
+-----+  
| [N]: EXIT |  
+-----+  
RESPONSE ?  
y  
TIME HAS BEEN SET  
SIT BACK AND RELAX WE WILL REMIND YOU WHEN IT'S TIME
```

This is a desktop command line application which reminds a user when the water which they put on heat, will boil. It requires the user to give the power output rating of their heating device and the amount of water which will be heated. The app will then proceed to calculate the total time it will take for the water to boil, and then remind the user with a beep alert when the time it calculated reaches.

13. Labyrinth Game



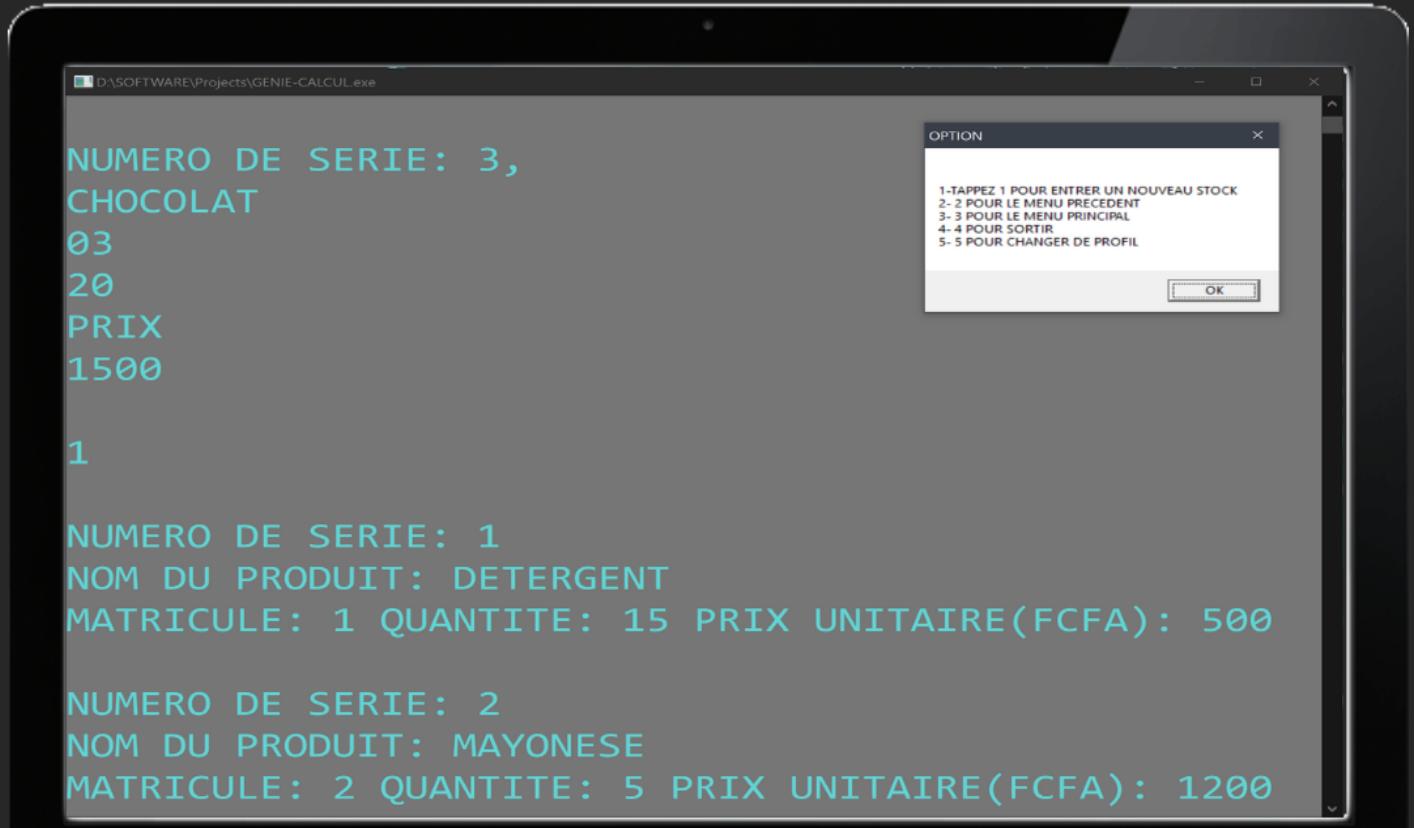
This is a desktop video game. It is a 3D version of the labyrinth, which is about finding the exit to a trapped building while collecting as many points as possible. The game ends when all cubes have been collected.

14. Adventure Game



This is a desktop video game. It is a 2D adventure game, which is about exploring a virtual world and defeating enemies. The game ends when all enemies have been defeated.

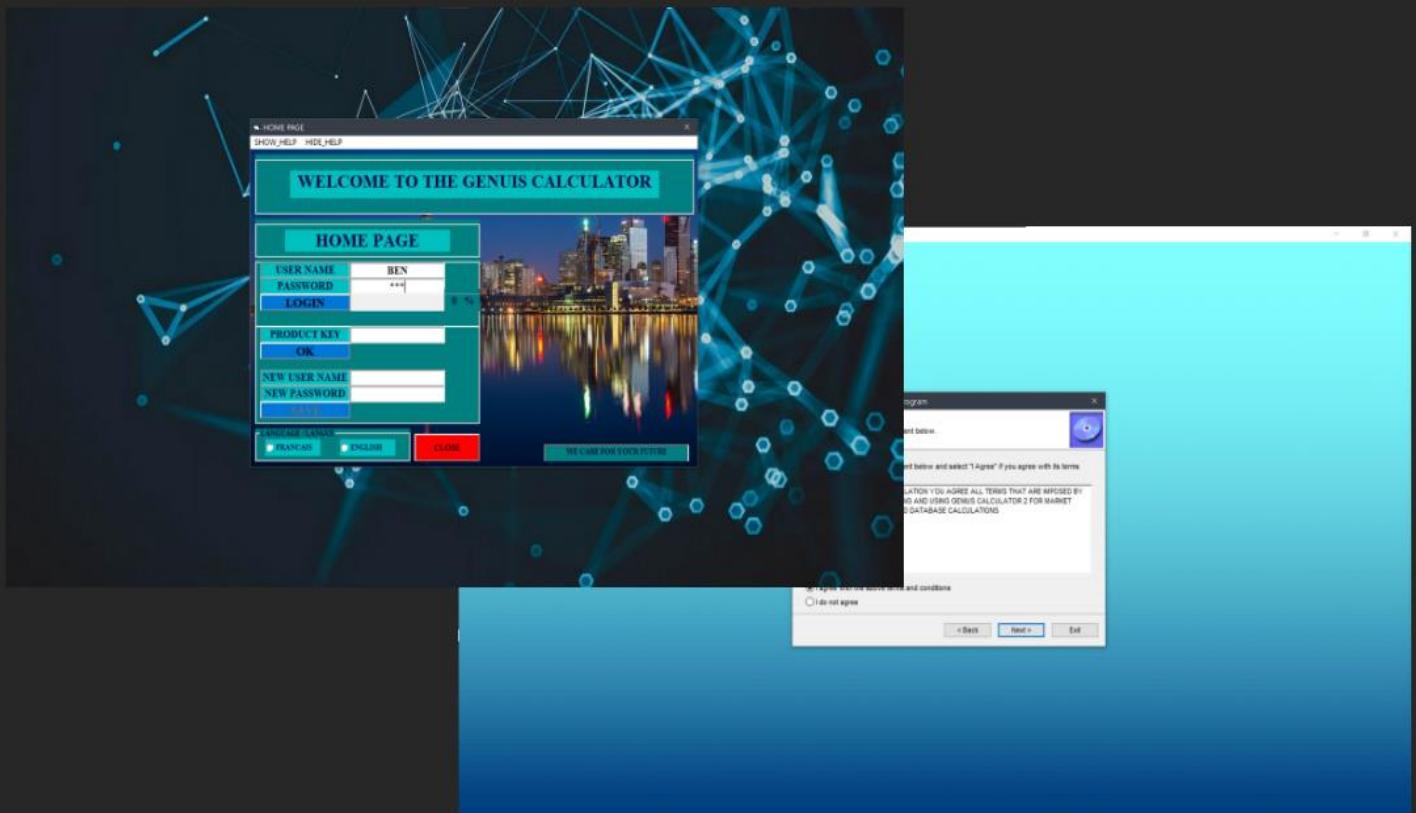
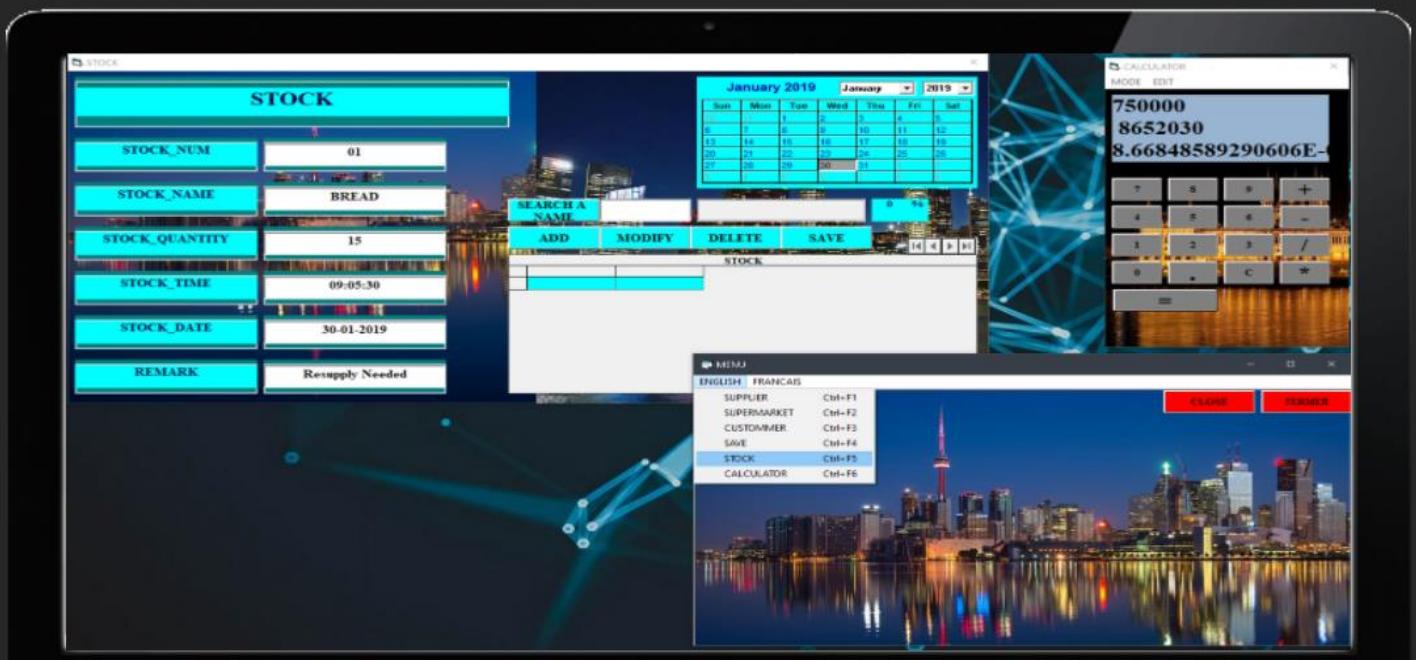
15. Supermarket Management System



This is a desktop command line application which assists supermarkets in managing their inventories and stock. It calculates how much stock is left and reminds shop owners when to replenish them.

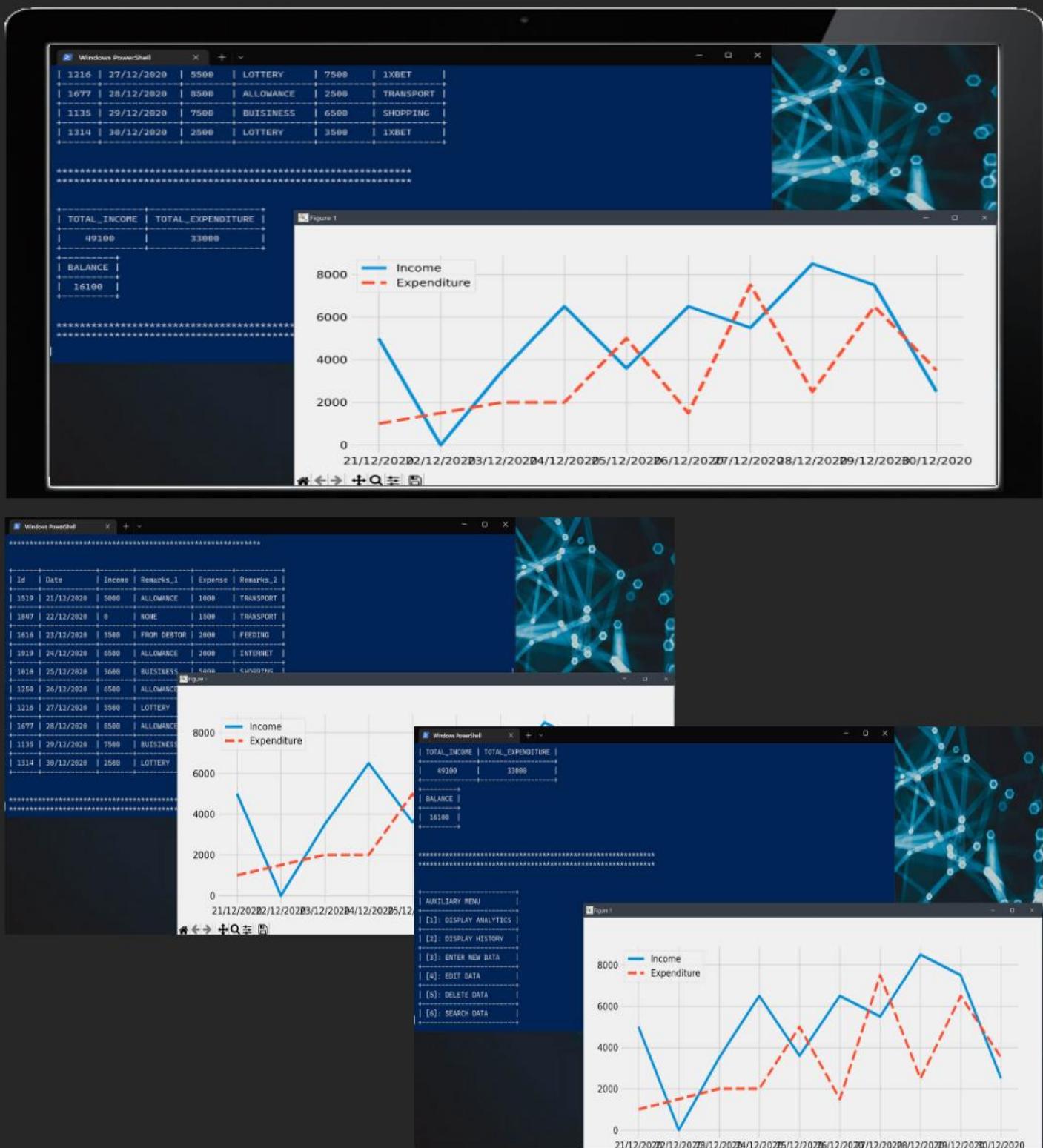
Project 15

16. Supermarket Management System 2.0



This application is an upgrade to the previous one that was command line, with a GUI added to it. This is a desktop command line application which assists supermarkets in managing their inventories and stock. It calculates how much stock is left and reminds shop owners when to replenish them.

17. Financial Manager



This is a desktop command line application which assists individuals in managing their finances. It assists the user in recording, monitoring and keeping track of their income and expenditure flux. It also calculates the spare money the user has and helps the user visualise their financial records with an interactive chart.

18. Financial Manager 2.0



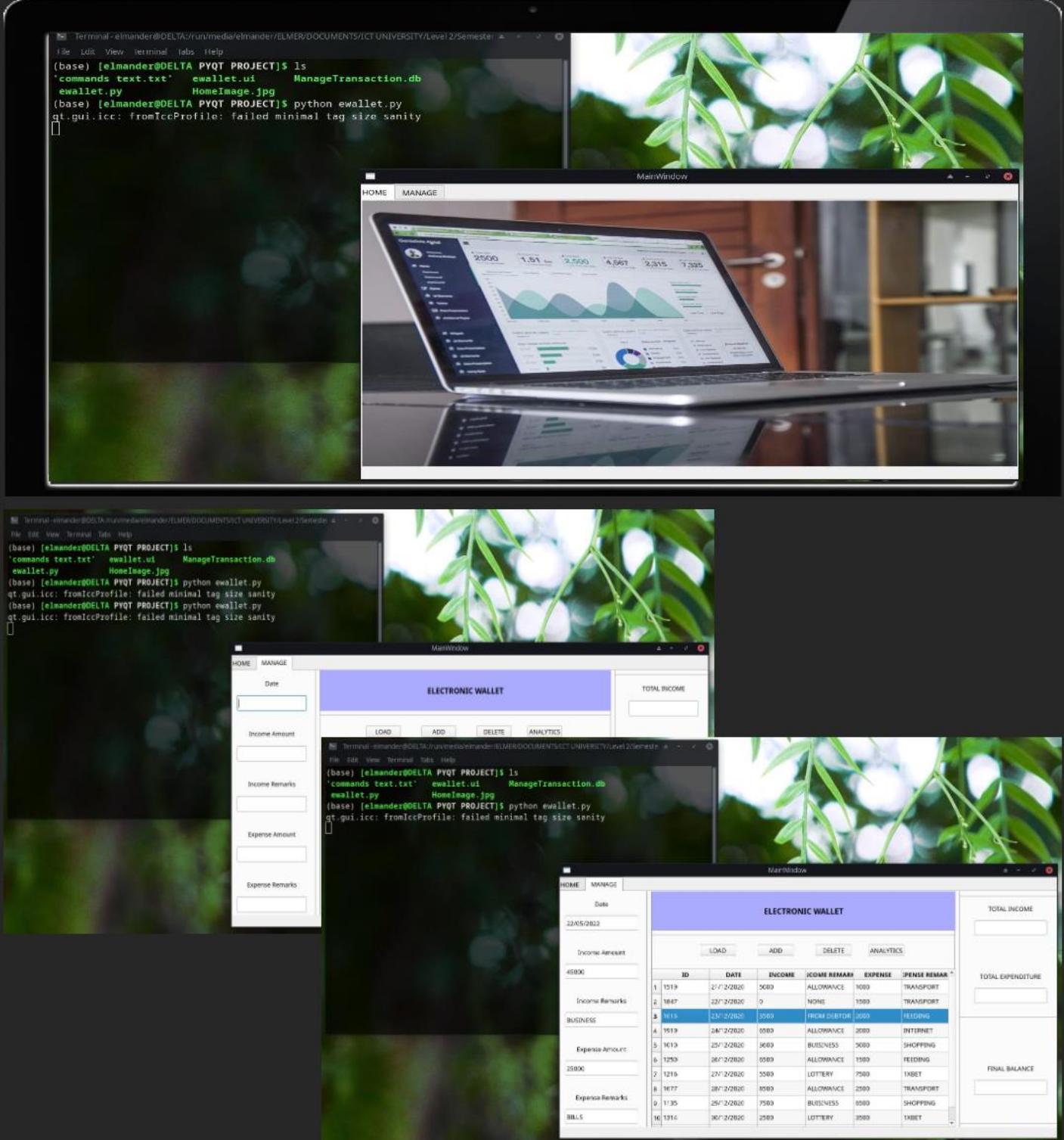
The screenshot displays two windows of the E-Wallet application. The left window shows the 'HOME' screen with a date input field set to '7/13/2022', an amount input field set to '35000 FCFA', and a table of transactions. The right window shows the 'MANAGE' screen with a detailed view of a transaction from July 13, 2022, with an amount of 35000 FCFA, type 'Income', and remarks 'From Business'. Both windows have a blue header with the 'E-WALLET' logo.

DATE	AMOUNT	TYPE	REMARKS
2015-01-15	50000 FCFA	Income	From Salary
2015-02-15	75000 FCFA	Income	From Salary
2015-03-28	25000 FCFA	Expenditure	Bills Payed
2015-04-12	15000 FCFA	Expenditure	Borrowed
2022-07-13	35000 FCFA	Income	From Business

DATE	AMOUNT	TYPE	REMARKS
2015-01-15	50000 FCFA	Income	From Salary
2015-02-15	75000 FCFA	Income	From Salary
2015-03-28	25000 FCFA	Expenditure	Bills Payed
2015-04-12	15000 FCFA	Expenditure	Borrowed
2022-07-13	35000 FCFA	Income	From Business

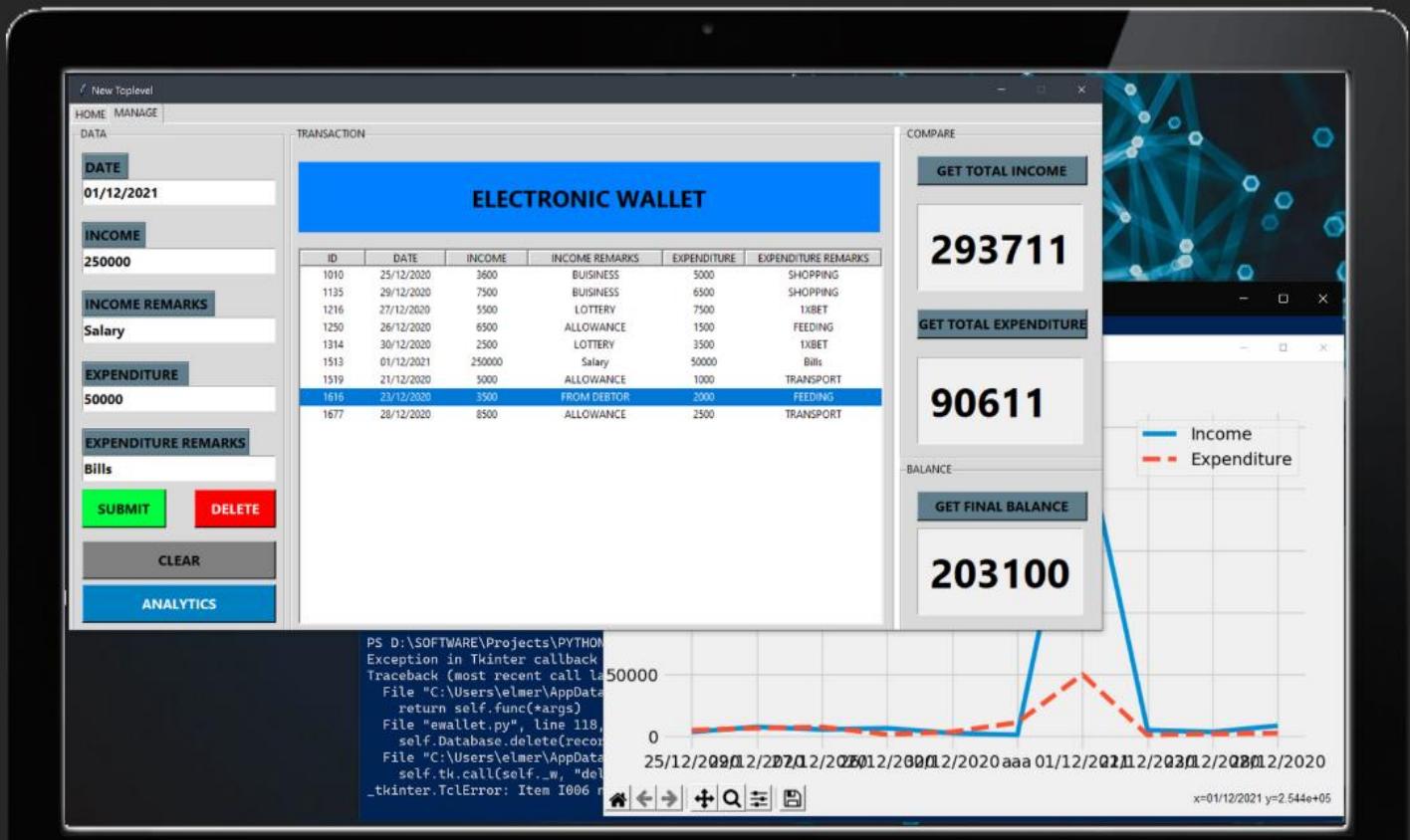
This application is an upgrade to the previous one that was command line, with a GUI added to it. This is a desktop application which assists individuals in managing their finances. It assists the user in recording, monitoring and keeping track of their income and expenditure flux.

19. Financial Manager 3.0



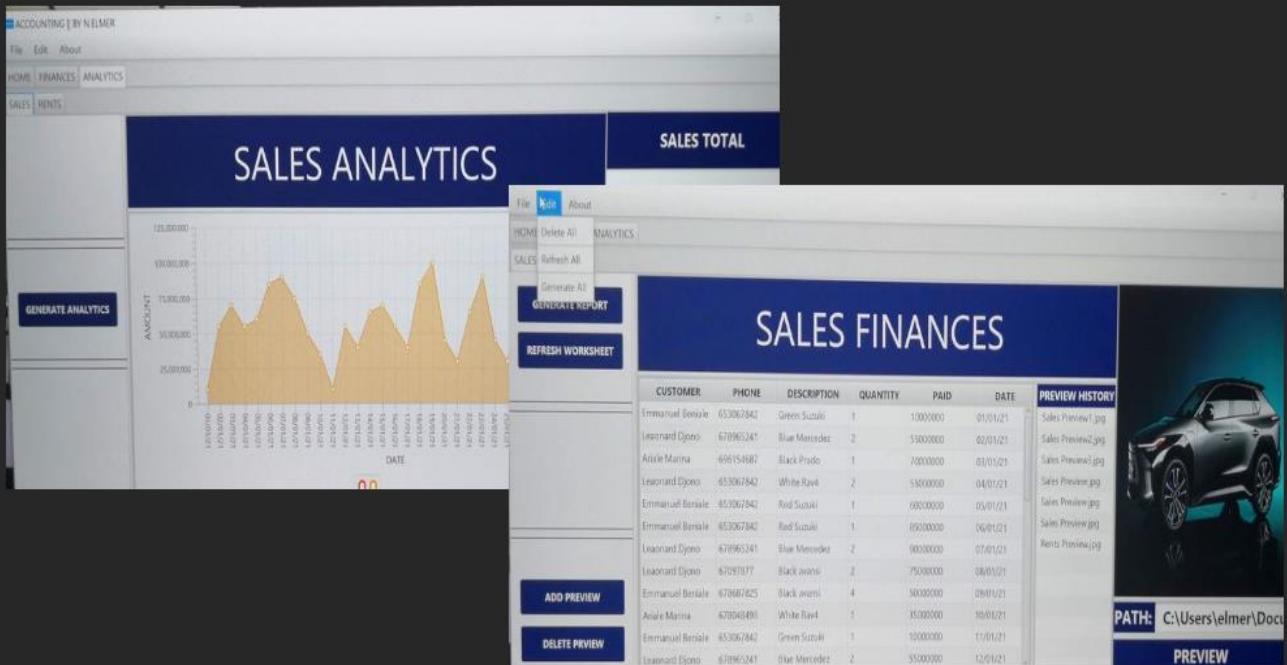
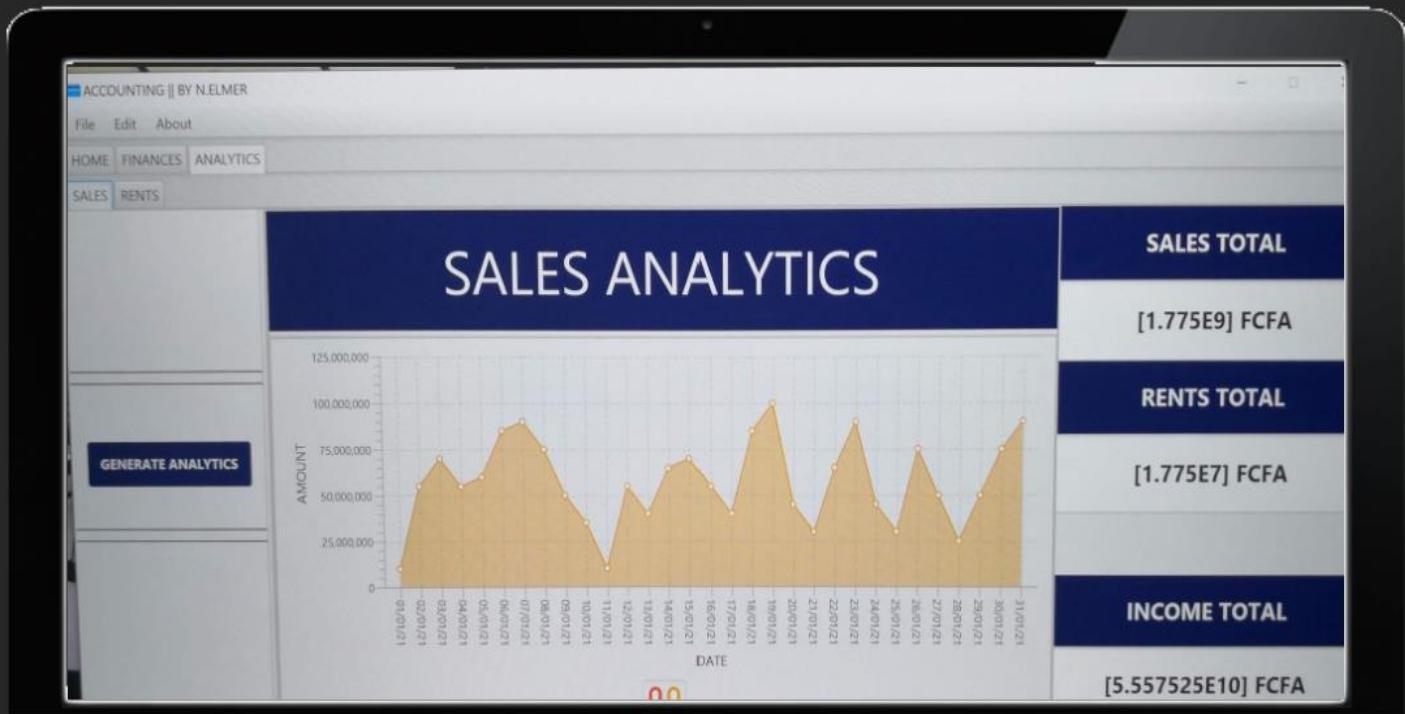
This application is an upgrade to the previous one that lacked a balance calculator on its GUI. This is a desktop application which assists individuals in managing their finances. It assists the user in recording, monitoring and keeping track of their income and expenditure flux.

20. Financial Manager 4.0



This application is an upgrade to the previous one that lacked an analytics section in its GUI. This update was aimed at making the app more user-friendly. This is a desktop application which assists individuals in managing their finances. It assists the user in recording, monitoring and keeping track of their income and expenditure flux.

21. Accounting Management System



This is a desktop application which assists enterprises with their accounting. It assists the enterprise with recording, monitoring and keeping track of their assets, liabilities, income and expenditure.



Why Choose Me?

For most people, engineering is just another job which will put food on their tables. Nevertheless, for me, it is a passion which drives me into more challenges and innovation. The perfect ground for boosting this innovation is the job sector.

Contact

Tel: +237 6 52 54 19 43

Email: elmerelmander@gmail.com

Email: terrax@terraexploration.space



GitHub: <https://github.com/N-Elmer>



LinkedIn: <https://www.linkedin.com/in/elmander-elmer-316b4218a/>