Let’s make an MIS Dashboard to manage and overlook inventory in a business.

The layout should be modern, professional and sleek.

There should be a user id login and password, connected via database. The table should be named users. In the login window, there should also be an Option to Register a user- which asks- Full Name, ID and Password. Password should be 6 characters, one character in caps, one special icon.

The database in the backend will be connected via Google Firestarter once you create the basic app structure.

Once the user logs in, the main dashboard should appear.

In the dashboard there should be an option for the user to upload an inventory sheet in csv format. I have attached the inventory sheet sample along with this prompt. The first row is heading.

The sheet is in the following format-

Column- A- Item Name

Column- B- SKU

Column- C- Category

Column- D- Opening Stock (Units)

Column- E- Purchase (Units)

Column- F- Sales (Units)

Column- G- Closing Stock (Units)

Column- H- Cost Price

Column- I- Selling Price

Column- J- Reorder Level

Once the user uploads the sheet with these columns, the following dashboards should be created with great animations, interactive features-

1. Product-wise Profit = (Selling Price – Cost Price) × Sales Units
2. Product-wise Profit % (Margin) = (Selling – Cost) ÷ Selling × 100
3. Top Products by Sales Units (who’s moving the most pieces)
4. Top Products by Revenue = Sales Units × Selling Price
5. Inventory Health
6. Closing Stock Value (at Cost) = Closing Stock × Cost Price
7. Closing Stock Value (at Selling) = Closing Stock × Selling Price
8. Potential Profit in Closing Stock = (Selling – Cost) × Closing Stock
9. Reorder Alerts = Closing Stock < Reorder Level
10. Stock Movement % = Sales ÷ (Opening + Purchase) × 100
11. Fast vs Slow Movers (rank by Sales ÷ Avg Inventory)
12. Average Purchase to Sales Ratio = Sales ÷ Purchase

Now, all these KPIs should be presented in proper tables OR charts as well, should be interactive and good to look. Then make a tab for some custom charts like bar, pie, scatter plot etc. where the user simply mentions the x axis and y axis particulars. It would make the custom chart for them.

Now, these were the main functions. In terms of the layout, once logged in there should be a change password button, which changes the password in the users table of the database, and a Log Out Button beside the Change Password Tab. One more icon which should be there- both in the Login Page as well as the main pages- Light Mode/ Dark Mode, which would change the entirety of design and colors to dark mode, and then when clicked again- to light mode.

In addition to that, add features like Password management and user management as well.

The Final Web App URL-

<https://studio--inventory-insights-ppgu6.us-central1.hosted.app/login>