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Modern MES Platform – Product and Engineering



Hiring Positions

4 Permanent Full-Time

Product and Engineering Team

Fully (100%) Remote or Hybrid

How does our Manufacturing Execution System (MES) Platform enable Production Workflows?



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Industries ▾

Solutions ▾

Resources ▾

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See how it work

over to a multi-cloud environment and run some ML and AI on hundreds of millions of data points. Users then see real-time analytics on client applications - the web, mobile/tablet/watch apps, Alexa, Microsoft Teams, etc.

And we do all this with a latency of less than 100ms. That's less than the time it took you to read this text. Impressive, isn't it? Yeah, our customers love us too!

Below is the eco-system and the product suite that we offer. These are bespoke applications for each platform.



Workforce or Shift Lead



Process Control Manager



Production Manager



Manufacturing Site Manager



The screenshot shows a navigation bar with links: Platform ▾, Industries ▾, Solutions ▾, Resources ▾, SIRI, Enterprise Plans, Get Started, and See how it work. Below the navigation is a circular profile picture of a person in a blue shirt, labeled 'Quality Control Manager'. To the right is a circular profile picture of a person in a yellow vest, labeled 'General Manager'. In the center is a dashboard card showing a timeline from '4th Quarter' to 'Jun' with bars for 'Overall Effectiveness' (72.2%), 'Performance' (81%), 'Availability' (90%), and 'Quality' (99%).

Digital Collaboration in Modern Manufacturing

Some Helpful links

Here are some helpful pages we want you to go through to understand the level of quality we put in our products. We expect you to be as close to it as you can!

Dashboard [Real-time Collaboration](#)

Reports [Manufacturing Reports and Insights](#)

Custom Data Driven Features [Shopfloor Dashboards](#)

Web Platform Engineering Team -

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This is an immediate start job. If you meet the criteria, we can bring you on-board in 24-48 hours.

Please understand what our startup does and the product we provide to our users. The best we can recommend is to browse through the website as there are tons of product screenshots. This will help you to observe the quality we expect from the senior Angular developers in our team.

Here is our hiring process.

1. Please complete the technical task mentioned. This is the only efficient way we like to ensure you have the skills we are looking for, and we can bring you on-board swiftly!
2. Within 24 hours of the task completion, we will interview you for the final round. This is just a discussion and a chance for you to ask any questions!
3. If all goes well, and we both want to work with each other, we will bring you on board in the next 24 hours.

Key Details

We want you to design the below dashboard. Take a breath before you think it's a big task. We have broken it down into small pieces and have provided details of each section.



Platform ▾

Industries ▾

Solutions ▾

Resources ▾

SIRI

Enterprise
Plans

Get Started

See how it work

better relevant UI and functional elements to assess the skills we are looking for. So if you do it well, you can be confident to fit in within our team well!

Source Credit We have taken reference from a random Dribble and want to extend credit to its Author. Thank you!

<https://dribbble.com/shots/20859776-Hexa-Bank-Personal-Finance-Dashboard>

One this page

1. Details of the Dashboard

- 1.1 Overview of the Dashboard
- 1.2 Left Navigation of Dashboard
- 1.3 Top Navigation of Dashboard
- 1.4 First Static Column of Dashboard
- 1.5 Total Balance Card Section
- 1.6 Statistics Cards and Graph Section
- 1.7 Transaction History Grid

2. Basic Guidelines

3. Styling Guidelines

4. API Integration Guidelines



Platform ▾

Industries ▾

Solutions ▾

Resources ▾

SIRI

Enterprise
Plans[Get Started](#)[See how it works](#)

7. Some FAQ

8. How to Submit the task

1.1 Overview of the Dashboard

Here is the dashboard that we want you to design. Below are steps by steps instructions. Design this in a 1920x1080 resolution. We don't want you to make it responsive if you don't want to do it.

Below we have explained each component/area of the task. There are Red Sticky Notes with more details. Feel free to open the images in a new tab if you find the text is unreadable on this page.

Make separate components and invoke them on the main dashboard.

API Endpoint with JSON Response

There is only one API with three objects in it. You can choose to create one service or three separate (preferred) and use the relevant key property. Please create a service to call the API. Do not copy paste the JSON in your project. The API doesn't require any authentication.

Please create a service to call the API. Do not copy paste the JSON in your project. The API doesn't require any authentication.

API Endpoint (GET) to retrieve JSON response: api.fy23ey06.careers.ifelsecloud.com

The screenshot shows a modern web-based banking application interface for Hexa Bank. The top navigation bar includes links for Platform, Industries, Solutions, Resources, SIRI, Enterprise Plans, Get Started, and See how it works. The main content area features a dark-themed dashboard for user Akmal Nasrulloh.

Left Sidebar:

- User Profile: Akmal Nasrulloh
- Menu:
 - Overview (selected)
 - Transactions
 - Analytics
 - Cards
- General Settings:
 - Settings
 - Help/Support
 - Dark Mode

Top Center:

- Hexa Bank logo
- Overview section title
- Search bar: Search anything here ..
- Notification icons: Email and Bell

My Cards: Shows 1/2 cards, displaying one card with the number 5678, AKMAL NASRULLOH, and expiration date 05/24. A button to Add New Card is available.

Total Balance: Displays a large balance of \$120,000.00. Below it, a monthly payment limit of \$10,500/\$35,000 is shown.

Money Statistics: Compares Total Income (\$570,000.00), Total Expense (\$356,000.00), and Total Investment (\$114,000.00) across three months. The chart shows a significant increase in income from January to July.

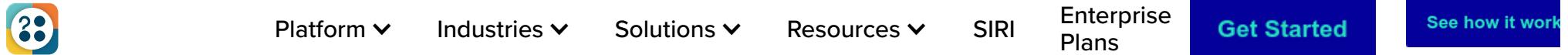
Quick Actions: Buttons for Top Up, Transfer, and Withdrawal.

Saving Plan: Shows two active saving plans:

- New Watch: Target \$2,000, Total: \$1,000, Progress: 50%
- Play Station 5: Target \$1,000, Total: \$0.00, Progress: 0%

Transaction History: A table showing transactions from Mar 6, 2023, to the present. The table includes columns for Date, Name, Status, Type, Time, Amount, and Action.

Date	Name	Status	Type	Time	Amount	Action
Mar 6, 2023	Ichsan Suryo	Success	Transfer	08:15 PM	\$550.00	...



1.2 Left Navigation of Dashboard

The left navigation should be full height to the page. Only the right side container scrolls up and down. The menu icons on the navigation bar has no functionality. There are no routes/navigation required.

Guide 1 - Left Navigation

The screenshot shows a banking dashboard with a left navigation sidebar and a right content area. The left sidebar is titled 'Hexa Bank' and contains a user profile for 'Akmal Nasrulloh'. It includes sections for 'OVERVIEW', 'TRANSACTIONS', 'ANALYTICS', and 'CARDS'. A red callout box with a dashed border highlights the sidebar area, containing the text: 'Create Component and Invoke. There are no click/functional events. It's display only!'. A red arrow points from this box towards the sidebar. The right content area displays an 'Overview' section with 'My Cards: 1/2' (one card shown), a large 'Total Balance' of '\$120,000.00', and a 'Money Statistics' section showing 'Total Income: \$570,000.00', 'Total Expense: \$356,000.00', and 'Total Investment: \$114,000.00'. Below these are two bar charts showing transaction details.

1.3 Top Navigation of Dashboard

The top navigation should be full width to the page. When you scroll, it stays on the top. The menu icons on the navigation bar has no functionality. There are no routes/navigation required.

Guide 2 - Top Navigation

The screenshot shows the Hexa Bank dashboard with a top navigation bar. The bar is highlighted with a red dashed box and a red arrow from the callout box. The callout box contains the following text:

Create Component and Invoke.
There are no click/functional events. It's display only!
You can leave the top blue bar or close it when the cross icon is clicked.

The dashboard itself has a dark header with the Hexa Bank logo and the word 'Overview'. Below the header are sections for 'My Cards: 1/2' (showing a card for Akmal Nasrulloh) and 'Total Balance' (\$120,000.00). A search bar and notification icons are also present.

The screenshot shows a modern dashboard interface with the following sections:

- GENERAL**: Includes Settings, Help/Support, and Dark Mode options.
- Quick Actions**: Buttons for Top Up, Transfer, and Withdrawal.
- Saving Plan**: Shows progress for two items:
 - New Watch: Target \$2,000, Total: \$1,000, 50% completed.
 - Play Station 5: Target \$2,000.
- Enterprise Plans**: A bar chart showing monthly financial data from January to December. The Y-axis ranges from \$0K to \$50K. The chart includes three series: Income (light blue), Investment (dark blue), and Expense (purple).
- Transaction History**: A table listing transactions:

Date	Name	Status	Type	Time	Amount	Action
Mar 6, 2023	Ichsan Suryo	Success	Transfer	08:15 PM	\$550.00	...
Mar 6, 2023	Dribbble Pro	Success	Card Payment	06:31 PM	\$2.50	...

1.4 First Static Column of Dashboard

You can use Font Awesome icons. You can use an image for the top card, or design it in the HTML. If you think that's too difficult or time consuming, put a nice light colored grey div. It's not that important either.

For the rest of the elements, bind static values. You can also create a local JSON and use it to bind values. Up to you.

The screenshot shows a browser window with the following content:

- Guide 3 - First Static Column** (title bar)
- hexabank.com** (url bar)
- Stay updated on our latest feature by receiving notifications from us!** (notification bar)
- Learn More** (button)
- Overview** (main content area)
- Search anything here** (search bar)
- Profile** (user profile icon)

The screenshot displays a user interface for a manufacturing production workflow. At the top, there is a navigation bar with links for Platform, Industries, Solutions, Resources, SIRI, Enterprise Plans, Get Started, and See how it work. Below the navigation bar, there is a large central area featuring a "Total Balance" card. The card shows a balance of \$120,000.00, a monthly payment limit of \$10,500/\$35,000, and a progress bar indicating the current balance. To the left of the main content, there is a sidebar with a red callout box containing the text: "Create Component and Invoke. There are no click/functional events. It's display only! You can put an image for the top card if you like. Or design it as close as you can. Up to you!" A red arrow points from this callout to the top-left corner of the main content area.

1.5 Total Balance Card Section

You can create the progress bars using plain HTML and CSS. There is no need to use a library if you don't want to.

API Details: Use the **balance** key property from the JSON Response.

The screenshot displays a web-based application interface for a banking or financial management system. The top navigation bar includes links for Platform, Industries, Solutions, Resources, SIRI, Enterprise Plans, Get Started, and See how it works. The main content area is titled "Overview" and shows the following sections:

- My Cards:** Displays one card (1/2) with the number 5678, owner AKMAL NASRULLOH, and expiration date 05/24. A button to "Add New Card" is present.
- Total Balance:** Shows a large balance of \$120,000.00. Below it, a monthly payment limit of \$10,500 is shown against a \$35,000 limit.
- Money Statistics:** Compares Total Income (\$570,000.00), Total Expense (\$356,000.00), and Total Investment (\$114,000.00) across three time periods: last month, previous month, and year-to-date.
- Quick Actions:** Includes buttons for Top Up, Transfer, and Withdrawal.
- Saving Plan:** Shows two goals: "New Watch" (Target \$2,000, Total: \$1,000, 50% complete) and "Play Station 5" (Target \$2,000, Total: \$1,000, 50% complete).
- Transaction History:** A table listing transactions from Mar 6, 2023, including Ichsan Suryo's transfer of \$550.00 and Dribble Pro's card payment of \$2.50.

A red callout box on the right side of the "Total Balance" section contains the following text:

Bind API
(Read Details below)
Create Component
and Invoke.



1.0 Statistics Grid and Graph Section

Try to keep the colors as similar as you can. If you can't put the gradient, don't worry. But if you want to show off, great!

The API response will only get you the values for the top three cards and the color of their texts. You can set hardcoded values for the bar graphs. Or create a local JSON if you prefer. Up to you.

API Details: Use the **money_statistics** key property from the JSON Response.

Guide 5 - Statistics Grid and Graph

The screenshot shows the Hexa Bank mobile application interface. On the left is a sidebar with a user profile for 'Akmal Nasrulloh' and sections for Overview, Transactions, Analytics, Cards, Settings, Help/Support, and Dark Mode. The main content area has a header 'Overview' and a search bar. It displays a large card for 'My Cards: 1/2' with a placeholder card showing '5678' and 'AKMAL NASRULLOH 05/24'. Below this is a 'Total Balance' section showing '\$120,000.00' with a monthly payment limit of '\$10,500/\$35,000'. To the right is a 'Money Statistics' section with three cards: 'Total Income' (\$570,000.00, +25% from last month), 'Total Expense' (\$356,000.00, +18% from last month), and 'Total Investment' (\$114,000.00, +6% from last month). A bar chart below these cards shows monthly income and expense data. Two red callout boxes on the right side provide instructions: one for 'Bind API (Read Details below)' and another for 'Create Component and Invoke.' Another red callout box at the bottom right says 'Use any Graph Libraries you like. Bind static values to it. There is no API for this.'

The screenshot shows a top navigation bar with links: Platform, Industries, Solutions, Resources, SIRI, Enterprise Plans, Get Started, and See how it works. Below the navigation is a dashboard area with two cards: 'New Payment' (Total: \$1,000, 50% progress) and 'Play Station 5' (Target \$2,000). To the right is a 'TRANSACTION HISTORY' grid table.

Date	Name	Status	Type	Time	Amount	Action
Mar 6, 2023	Ichsan Suryo	Success	Transfer	08:15 PM	\$550.00	...
Mar 6, 2023	Dribble Pro	Success	Card Payment	06:31 PM	\$2.50	...

1.7 Transaction History Grid

There is an API for the Grid data. You can implement the local search functionality if you want. Also, show at least 5 rows in the grid. The cropped image only shows 2. The page can scroll down.

When you click on the three dots on the right, open a popup and display the 'Name' and the 'Type' value of that row.

API Details: Use the **transactions** key property from the JSON Response.

Guide 6 - Transaction History Grid

The screenshot shows a web browser window for hexabank.com. The main content area includes a sidebar with 'Hexa Bank' logo and user profile 'Akmal Nasrulloh'. The main panel displays an 'Overview' section with 'My Cards: 1/2' and a large 'Total Balance' of '\$120,000.00'. A transaction history grid is visible below the balance.

Date	Name	Status	Type	Time	Amount
Mar 6, 2023	Ichsan Suryo	Success	Transfer	08:15 PM	\$550.00
Mar 6, 2023	Dribble Pro	Success	Card Payment	06:31 PM	\$2.50

The screenshot shows a modern financial management application interface. At the top, there is a navigation bar with links for Platform, Industries, Solutions, Resources, SIRI, Enterprise Plans, Get Started, and See how it work. Below the navigation bar, there are several sections: Cards, Quick Actions (Top Up, Transfer, Withdrawal), Saving Plan (New Watch, Play Station 5), and Transaction History. The Transaction History section is highlighted with a red dashed border and contains a red callout box with the text "Bind API (Read Details below)" and "Create Component and Invoke.".

Date	Name	Status	Type	Time	Amount	Action
Mar 6, 2023	Ichsan Suryo	Success	Transfer	08:15 PM	\$550.00	...
Mar 6, 2023	Dribbble Pro	Success	Card Payment	06:31 PM	\$2.50	...

Basic Guidelines

1. Please use your favorite IDE.
2. Please create the project from scratch using CLI, and build on top of it. Don't start with a template/theme and go backward cleaning it.
3. TypeScript Only. Please NO vanilla JavaScript.
4. Please use FlexBox or plain Flex in the SCSS.

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Most of elements in the design are repeatable. So, we encourage you to create components and show that you are not an HTML designer but know Angular and why we use it.

2. Write your styles in SCSS. Try to reuse color variables and not hard-coding them everywhere.
3. The one (if not the only) to create a beautiful UI is to ensure that elements have the same properties as shown in the design. For example, ensure the color codes are the same, font-family, size and weight are the same. The font colors at #000000 don't always look good, so ensure you pick up the right amount of grey color from the designs.
4. We heavily recommend using Flex in your styles. And we want you to take the call on when to use Flex or Grid.
5. For graphs in the UI, you can use any graph library you are comfortable with. The left graph is Area Fill graph and the right is donut Chart. Here are some suggestions of the chart libraries you can use: Fusioncharts, Charts.js, Apexcharts.
6. For icons, use Fontawesome. If you can't find an icon, use anything you like. You don't have to use the exact icon.
7. Use the nearest color you find fit. Or use any color picker.

API Integration Guidelines

1. You don't need to bind the entire UI with API. There is only one specific section where API integration is required. We just want to see if you know how to integrate the APIs.
2. For the rest of the data, you can create the objects/modals in Typescript or load a local JSON.
3. You can also hard-code that in the template, but you could show your smartness by not doing so.
4. API endpoint doesn't have any authentication. If you face any difficulties accessing the APIs, please copy the



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Industries ▾

Solutions ▾

Resources ▾

SIRI

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Project Structure Guidelines

1. Keep HTML elements in the template.
2. Keep styles in the SCSS files.
3. Keep backend logic in the TypeScript.
4. This will help you keep your code clean and comprehensible.
5. Don't return HTML from TypeScript and put CSS in the HTML file. This will make your code much harder to read.
There are some exceptions to this though.
6. When you need to apply conditional styling, you can do them from TypeScript or by Ng conditions in the HTML.
However, we would still recommend creating classes and applying/removing them and not changing style properties on an ad-hoc basis.

Don't print yourself a NO card by doing silly things like -

1. Inline CSS in the templates. Nobody likes to see them.
2. Poorly structured styles.
3. Unformatted HTML template.

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FAQ

1. **Can I use Bootstrap/Tailwind?** We don't use it though and prefer using either [FlexBox](#) or plain Flex in the SCSS. If you use FlexBox it will be an advantage.
2. **Can I use Material UI?** Yes, you can. We don't use it either though. We create in-house components and if you do so, you have better chances to the next round.
3. **Which graph library should I use?** Any. [Highcharts](#), [ApexCharts](#) etc.

How to submit the task?

1. Take screenshot of the output from your browser.
2. Commit your code and the screenshot to a git repository and make it public.
3. Open the Github link in the Incognito mode to ensure it's public. If we can't access it, we won't be able to review it.
4. Reply to the original invitation email you have received to complete the technical task. Include #1 and #2 in the email. We will review.

One last thing

We get many responses where we can see the efforts but the required output is nowhere close to requirements. This is in fact, more than 50% of the total applications. We provide the extensive details to see if you can follow guidelines

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However, more than anything, our product is designed with very high standards to provide an amazing experience to our users. That's one of our key strengths. You can check our product on the website. And this is something we want to keep doing and we look forward to see the quality in your work!

Before you submit the task, put your screenshot next to the task screenshots and compare. If you think it's missing out on something, we encourage you to fix it. Otherwise we unfortunately end up rejecting the application because we can't see your skills we need. We will try to provide the feedback to each candidate though.

Good Luck!

We hope to work together and make manufacturing industries driven by ML and AI and not through papers or Excel sheets.