

Intern Software Engineer Assignment

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Introduction

The “Salary Calculator: Your Ultimate Wage Companion!” is designed to streamline your paycheck calculations. This app takes the guesswork out of determining your salary.

Simply input your basic salary and other income, then the application will do the rest, factoring in EPF (Employees' Provident Fund), ETF (Employees' Trust Fund), and APIT (Annual Personal Income Tax). With instant results, you'll have a clear picture of your take-home pay in seconds.

You can find the UI design, required information, and all the instructions below.

You can spend a **maximum of 2 days** on this assignment. The salary calculator application doesn't have to be complete. However, we want to gain a clear indication and understanding of your coding skills through your assignment.

The screenshot displays a web application for calculating salary. It is divided into two main sections: 'Calculate Your Salary' on the left and 'Your salary' on the right.

Calculate Your Salary Section:

- Basic Salary:** A text input field containing '150,000.00'.
- Earnings:** A section for allowances, fixed allowances, bonuses, etc. It includes two rows of input fields for 'Travel' (10,000.00) and 'Pay Details (Title)' (Amount), each with a delete 'X' button and a checkbox for 'EPF/ETF'. The 'Travel' checkbox is checked.
- + Add New Allowance:** A blue link to add more earnings.
- Deductions:** A section for salary advances, loan deductions, and all. It includes one row of input fields for 'No Pay' (8,000.00) with a delete 'X' button.
- + Add New Deduction:** A blue link to add more deductions.
- Reset:** A blue circular arrow icon with the text 'Reset'.

Your salary Section:

This section displays the calculated results in a table format:

Items	Amount
Basic Salary	150,000.00
Gross Earning	160,000.00
Gross Deduction	- 8,000.00
Employee EPF (8%)	- 12,160.00
APIT	- 3,740.00
Net Salary (Take Home)	136,100.00

Below the table, there is a section for 'Contribution from the Employer':

Employer EPF (12%)	18,240.00
Employer ETF (3%)	4,560.00
CTC (Cost to Company)	174,800.00

* UI Design - <https://www.figma.com/file/KV5WvdCxS4uBaPzwQ6QU2L/Intern-SE-Assignment-%7C-Beta-Launch?type=design&node-id=0%3A1&mode=design&t=78OVVLForpluGQZu-1>

(Once you have opened the link, you must sign up and log in, so you can have access to the color, font, margin and asset information. You can find Figma tips under the appendix section in this document)

Basic requirement

Create a React application and name it as “**salary-calculator-2024-Q1-*<your_github_id>***” (this is the name you need to use for your git repo too). Feel free to use any UI framework or libraries.

Please refer to the sample screenshot of the app (on previous page) as you read each requirement listed below.

- The user should be able to add/update **Basic Salary**.
- The user should be able to add/update **Earnings** or **Deductions**. They should be able to check or uncheck EPF/ETF applicability (tick boxes) from specific **Earnings** categories.
- The salary calculation should factor in EPF/ETF for each earning or deduction (if applicable).
- The user should be able to delete specific **Earnings** or **Deductions**.
- The user should be able to reset and clear the form.
- When the user makes any changes to any inputs, it should automatically calculate the salary accordingly (check ‘Appendix – Sample Scenario’ section for calculation samples).

Technical Requirements

Must Haves

- React with ES6+
- React functional components with React hooks
- Manage state with Redux or Context API
- Follow React best practices
- Follow the best application folder structure
- Mobile Responsiveness
- Need to resolve all console errors and warnings

Extra/Bonus Points

- Typescript
- Usage of Next.js framework
- Persist input data on page refresh
- Server-side rendering
- Usage of a linter
- Styled-Components
- Unit tests

Deliverable

Please email the assignment **public GitHub repository link**. The project should come with clear instructions on how to set up and run the project.

Appendix – Sample Scenario

Assume that person makes the following salary.

Type	Salary Component	Amount	EPF/ETF
Basic	Basic Salary	200,000	Default Allowed
Earning	Travel	5,000	-
Earning	Health	10,000	Allowed
Deduction	No Pay	8,000	

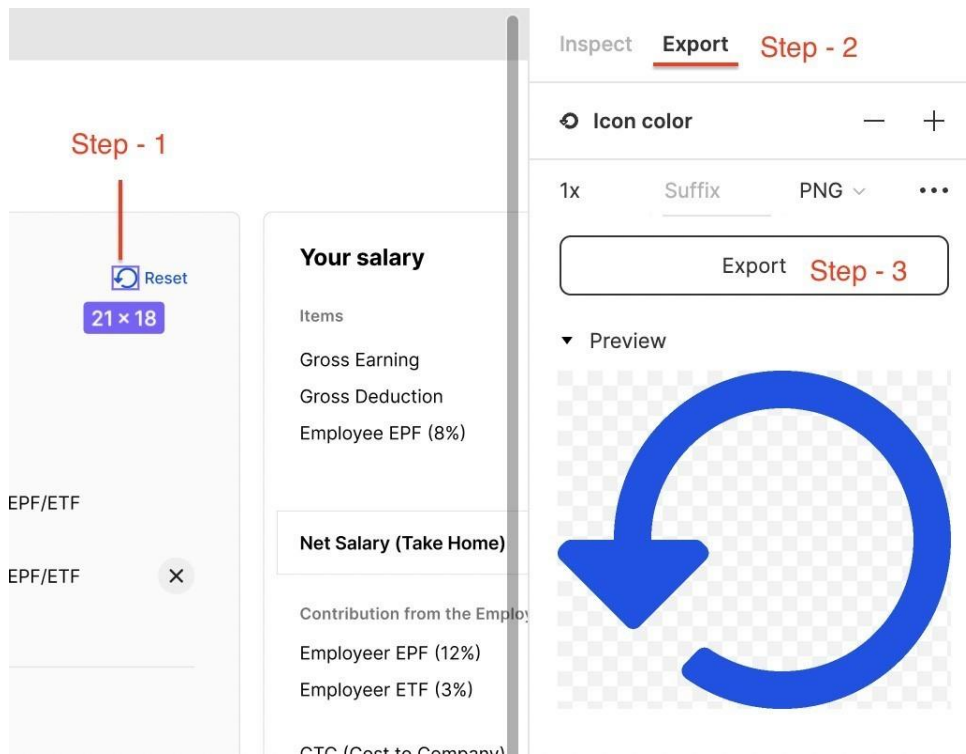
- Total Earnings = Basic Salary + Travel + Health
= 200,000 + 5,000 + 10,000
= 215,000
- Total Earnings for EPF. = Basic Salary + Sum of EPF/ETF Allowed Earnings
= 200,000 + 10,000
= 210,000
- Gross Deduction = No Pay + Other deduction (If any)
= 8,000
- Gross Earnings = Total Earnings - Gross Deduction
= 215,000 - 8,000
= 207,000
- Gross Salary for EPF = Total Earnings for EPF - Gross Deduction
= 210,000 - 8,000
= 202,000
- Employee EPF (8%) = Gross Salary for EPF X 8%
= 202,000 X 8%
= 16,160
- Employer EPF (12%) = Gross Salary for EPF X 12%
= 202,000 X 12%
= 24,240

- Employer ETF (3%)
= Gross Salary for EPF X 3%
= 202,000 X 3%
= 6,060
- APIT
= (Gross Earnings * Tax Percentage) - constant
(Refer the official document by IRD)
= (207,000 * 18%) - 25,500
= 11,760
- Net Salary
= Gross Earnings - Employee EPF - APIT
= 207,000 - 16,160 - 11,760
= 179,080
- Cost To Company
= Gross Earnings + Employer EPF (12%)
+ Employer ETF (3%)
= 207,000 + 24,240 + 6,060
= 237,300

Check this document to view the APIT calculation Information – [Official Document](#)

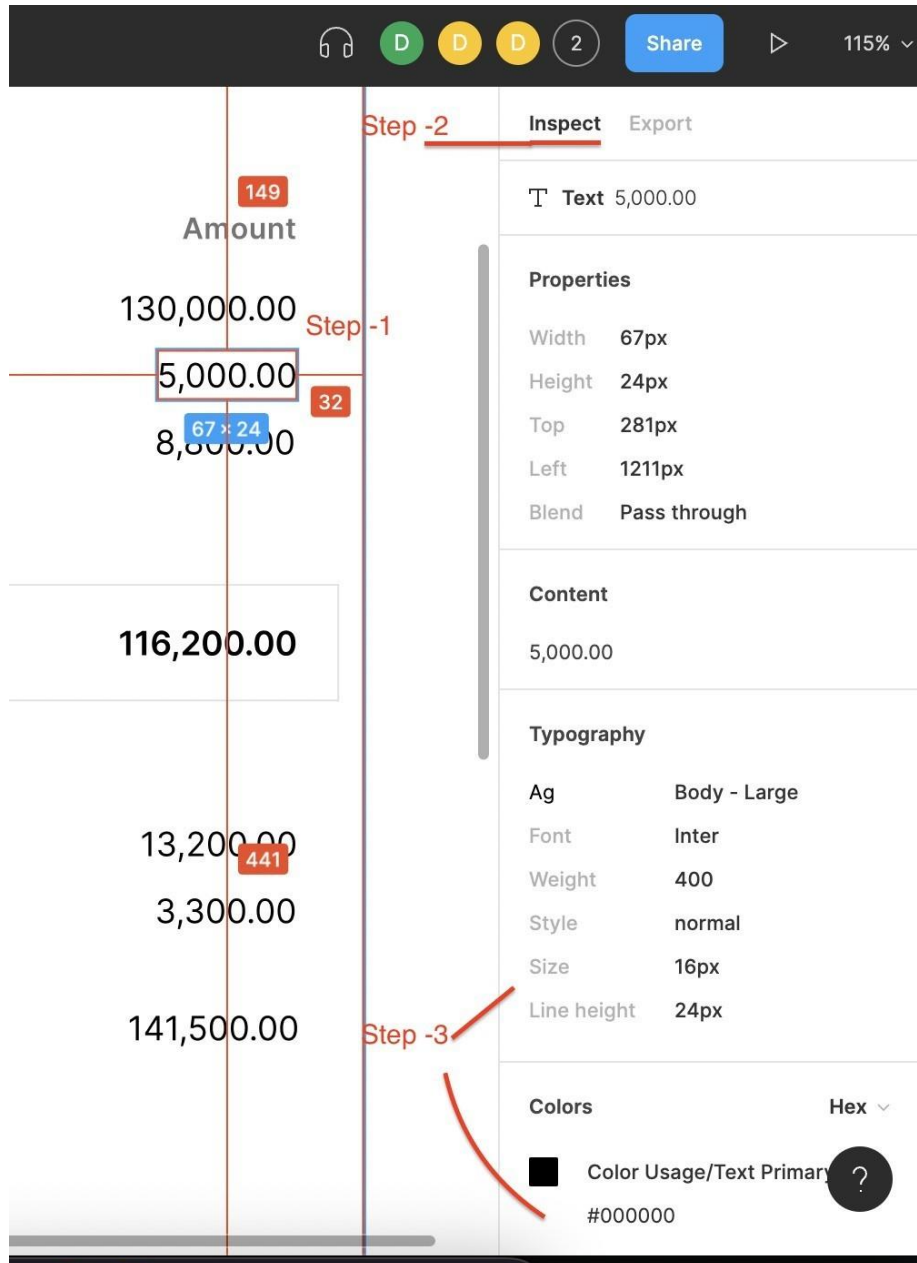
Appendix – How to use Figma

How to download assets



Click on the image and check the right panel. (select - Export Tab)

How to pick colors, fonts, text from Figma





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