



React Flow Frontend Technical Test

Overview

This test evaluates your ability to implement a workflow builder using React Flow. You'll be creating a progressively complex workflow system with various node types and interactions.

In total, there are **3 Levels**:

- Level1:BasicWorkflowStructure
- Level2:ImplementActionNodes
- Level3:If/ElseNode

Requirements

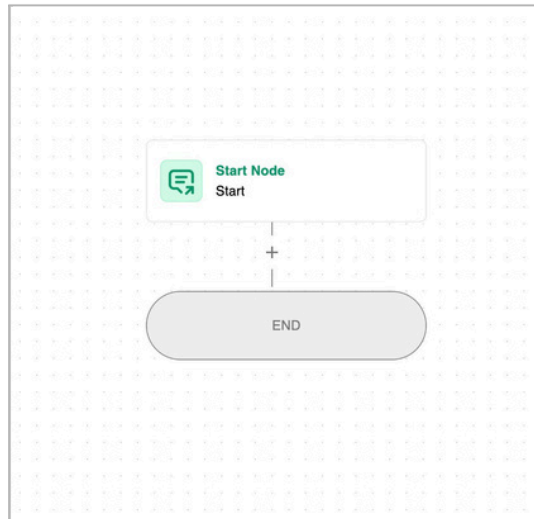
- UseReact.jsandReactFlowlibrary
- Writeclean,well-commentedcode
- UseTypeScript(optional,butpreferred)

Submission

1. Push your code to a public GitHub repository and include a README.md file with setup instructions.
2. Submit a video (using Loom with webcam ON) explaining the application, any assumptions made, challenges & how you resolved them.
3. Send the Github Repository link and video url in this chat by **7 Apr 2025, 10pm, Monday**

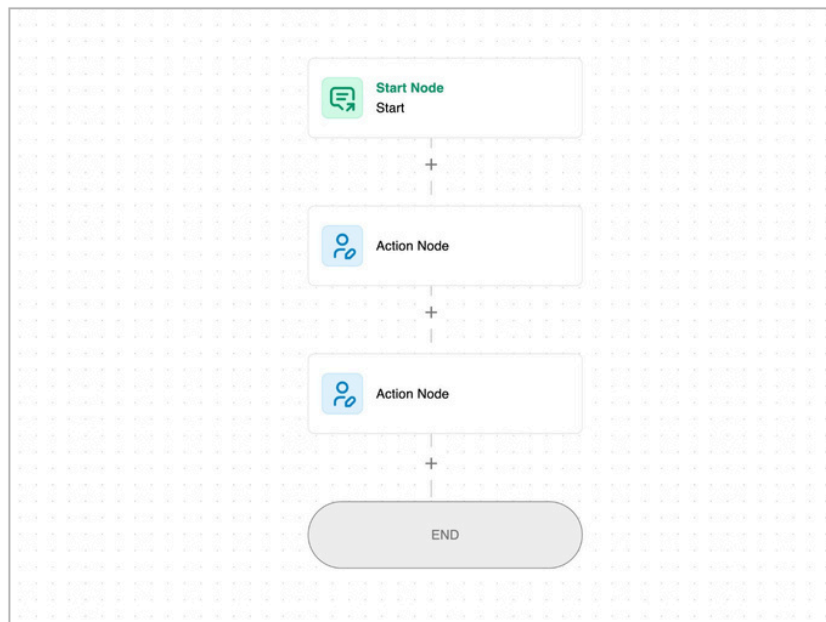
Level 1: Basic Workflow Structure

1. Set up a new React project with React Flow integration.
2. Create a simple workflow with a Start Node and an End Node.
3. Ensure nodes are connected with an Add Button.



Level 2: Implement Action Nodes

1. WhenAddButtonisclicked:
 - a. CreateanewActionNode.
 - b. Insertitattheclickedpositionintheworkflow.
 - c. Automaticallyconnectittothesurroundingnodes



2. Create a form to allow the Action Node's name to be changed.
3. Allow Action Node to be deleted.

Action
Update contact

Action Name
Update contact

+ Add field

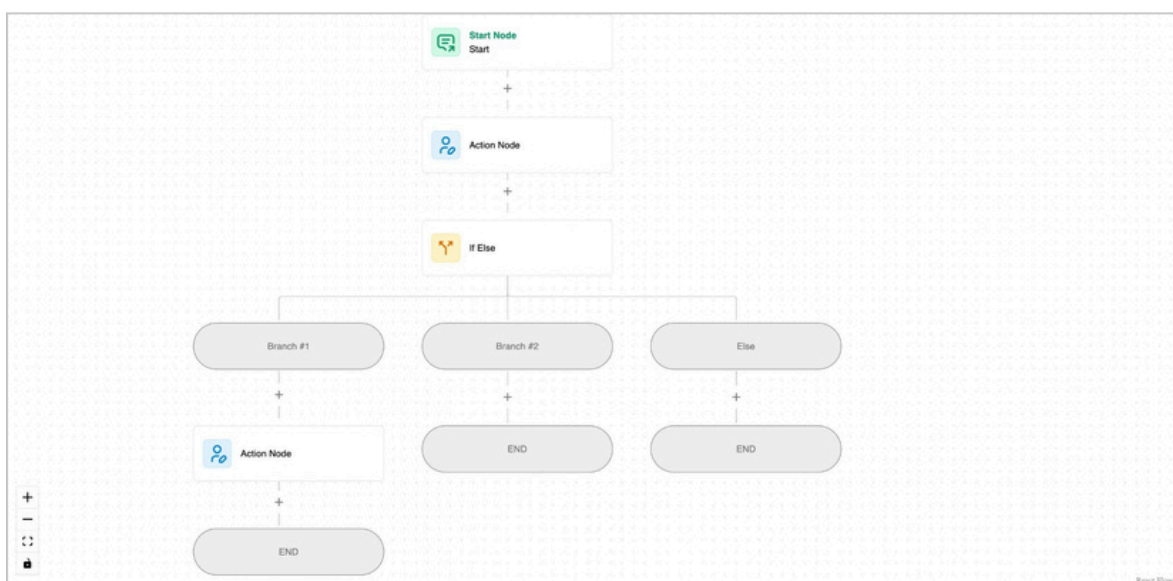
Delete Cancel Save

Level 3: If / Else Node

1. Create a node selection menu when the Add Button is clicked. The options are: "Action Node" and "If / Else Node".
2. When an If/Else Node is added, create 1 Branch Node and 1 Else Node by default.
3. Create a form to allow the name of the If / Else node to be changed and allow new branches to be added. The names of the branches can also be edited.

The screenshot shows a configuration window for an 'If / Else' node. The window has a title bar 'Action If / else' with a close button. Below the title bar is a section 'Action Name' with a text input field containing 'If / else'. Underneath is a section 'BRANCHES' containing two branch configurations. Each branch has a label (e.g., 'Branch #1') and a '+ Add filter' button. Below the branches is an 'ELSE' section with an 'Else' label and a '+ Add branch' button. At the bottom right are 'Cancel' and 'Save' buttons.

4. Ensure that the Branch Nodes and Else Node are displayed in the correct order. The branch nodes cannot be clicked because they are only displayed as a label for each branch. To edit the branch label, you can only do so via the If / Else Node.



5. Allow If / Else Node to be deleted.

All the best