



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**:

- Level 1: Basic Workflow Structure
- Level 2: Implement Action Nodes
- Level 3: If / Else Node

Requirements

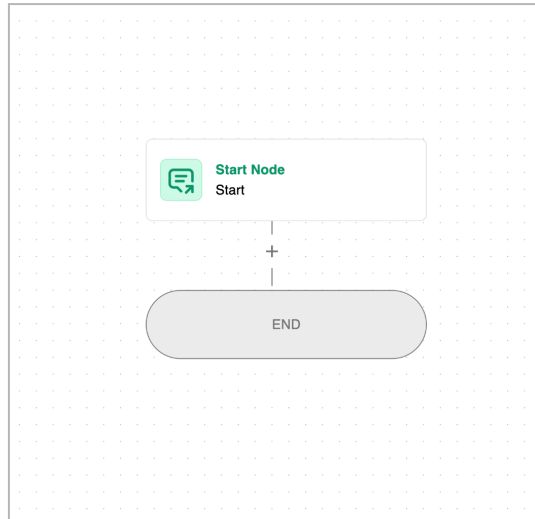
- Use React.js and React Flow library
- Write clean, well-commented code
- Use TypeScript (optional, but preferred)

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 via email to raffles@exabloom.com with subject "[Stage 2] Full Stack Software Engineer Intern / Frontend: <Your Full Name>"

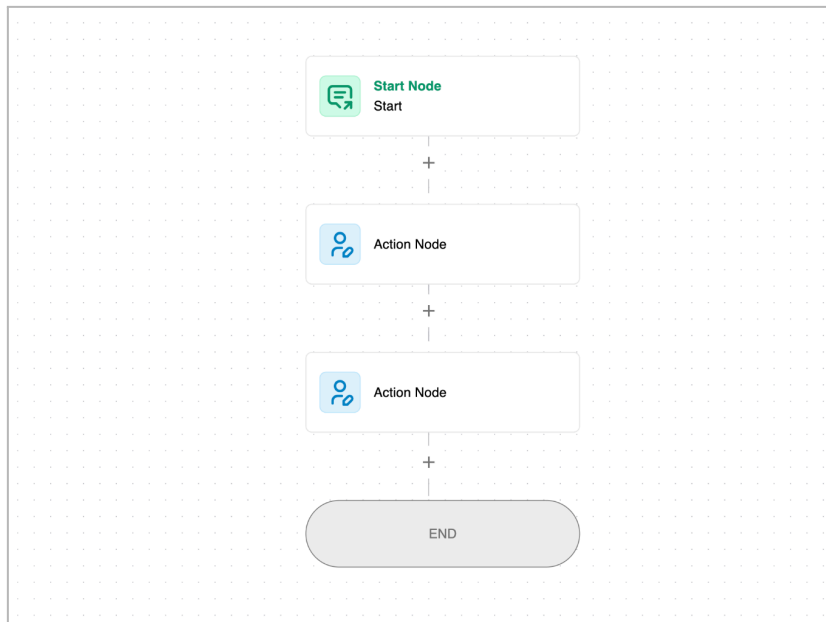
Level 1: Basic Workflow Structure

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. When Add Button is clicked:
 - a. Create a new Action Node.
 - b. Insert it at the clicked position in the workflow.
 - c. Automatically connect it to the surrounding nodes



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

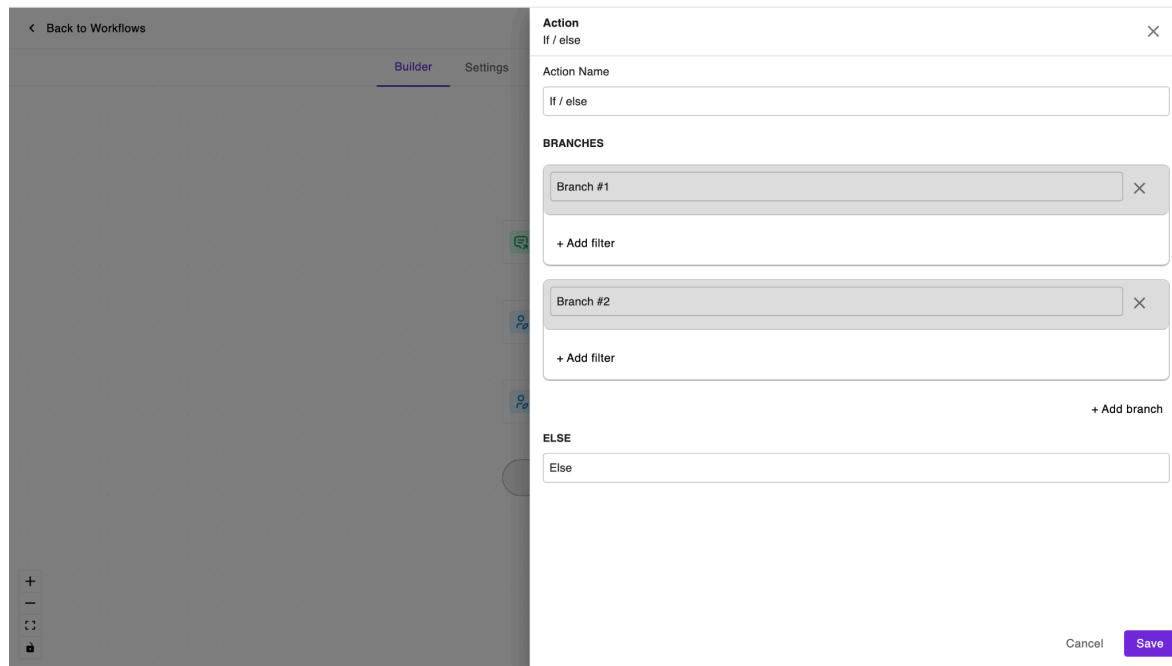
The screenshot shows a workflow builder interface with a modal form open for editing an 'Action Node'. The modal is titled 'Action' and has a close button (X) in the top right corner. The form contains the following elements:

- Action Name:** A text input field with the value 'Update contact'.
- + Add field:** A button to add new fields to the action.
- Buttons:** At the bottom of the modal, there are three buttons: 'Delete' (red), 'Cancel' (grey), and 'Save' (purple).

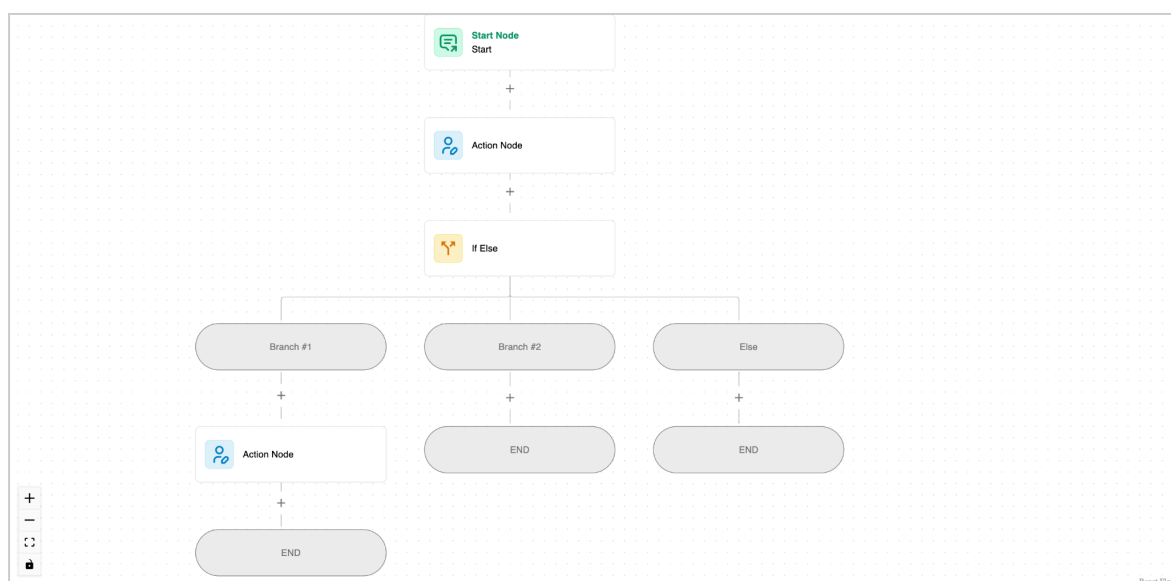
The background shows a workflow diagram with nodes: 'Start Node' (Start), 'Action Node', 'If Else', 'Branch #1', 'Branch', 'Action Node', and 'END'. The 'Action Node' in the workflow is highlighted, indicating it is the one being edited in the modal.

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.



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