ReactJS Challenge - Build a Visual coding environment

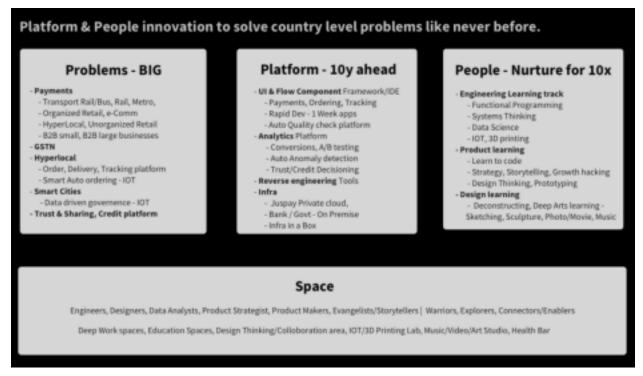
Looking for expert ReactJS developers with a sense of

aesthetics! About Juspay:

Our vision is to enable the billion people in India with frictionless payments experience & extend it with the right credit offerings. We power the payments experiences for 100M+ and have 200M+ SDK installs across top mobile apps in India.

In addition to our primary business, we contribute to the ecosystem by participating in early system design, protocol creation & reference implementations for country level initiatives. Examples are - building the core components of UPI, the BHIM app, protocol creation for OCEN (open credit enablement network) and Beckn (an open hyperlocal commerce platform).

To do this, our people need to be 10X effective. Such a culture is in the air. Freshers create frameworks to solve these big problems. Our framework Presto is a small size react native equivalent. We have fully embraced functional programming which is the new trend that is taking over the world.



Why React:

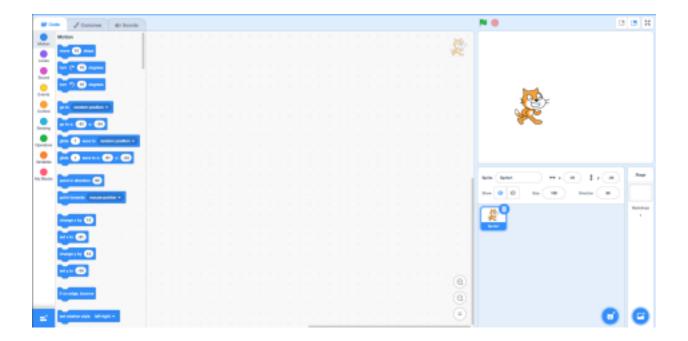
React has been inspired by functional programming afficados, who brought those good practices to the Javascript ecosystem. In fact, the react's creator Jordan Walke

talks about how deeper FP technologies like ReScript is going to help react further https://www.youtube.com/watch?v=5fG_lyNuEAw

We see React + FP as a way to build **complex operations dashboards, immersive data visualisation and creation/configuration tools** to be used by our customers, product managers, and business operations teams. These dashboards should be highly interactive, highly usable for repeat use cases & should facilitate frequent switching across desktop and mobile seamlessly.

About the challenge:

Build a visual code editor for Javascript that is similar to MIT Scratch https://scratch.mit.edu/projects/editor/



Challenge Instructions:

Objective: Implement the following features within the provided project:

- 1. Motion Animations:
 - Build the following animations under the 'Motion' category:
 - Move ____ stepsturn degrees
 - Go to x: ____ y: ____
 - Repeat animation (inside controls)
 - Ensure all corresponding drag-and-drop functionalities, as seen in the Scratch app, are covered.
- 2. Multiple Sprites Support:
 - Add functionality to create multiple 'Sprites.'
 - Ensure the animations from Feature 1 are available for each Sprite.
 - Implement a play button on click of which all Sprites starts animating
- 3. Hero Feature Collision-Based Animation Swap:
 - Introduce a "Hero Feature" that swaps animations when two characters collide.
 - Example:
 - Character 1: [Move 10 steps, repeat animation]
 - Character 2: [Move -10 steps, repeat animation]
 - After collision, the animations swap:
 - Character 1: Move -10 steps
 - Character 2: Move 10 steps
 - This feature adds dynamic interaction between characters in the Scratch playground.

Note:

- Only build the animations mentioned above.
- Prefer using ReScript React; alternatively, JavaScript/TypeScript is acceptable.
- Use TailwindCSS if possible.
- Hero features are not included in the Scratch example or provided video. Contact us if you have any questions.

Project Setup

A sample base project has been created for you to build the features on top of that. Follow the below instructions to setup and get started

- 1. Go to the below link and clone the repo https://bitbucket.org/shiva-nandan/scratch-starter-project/src/master/
- 2. Run npm i to install dependencies
- 3. Run npm start and open http://localhost:3000 to see the app