Hands-on Exercise: Building a Profile Viewer

Lek Hsiang Hui

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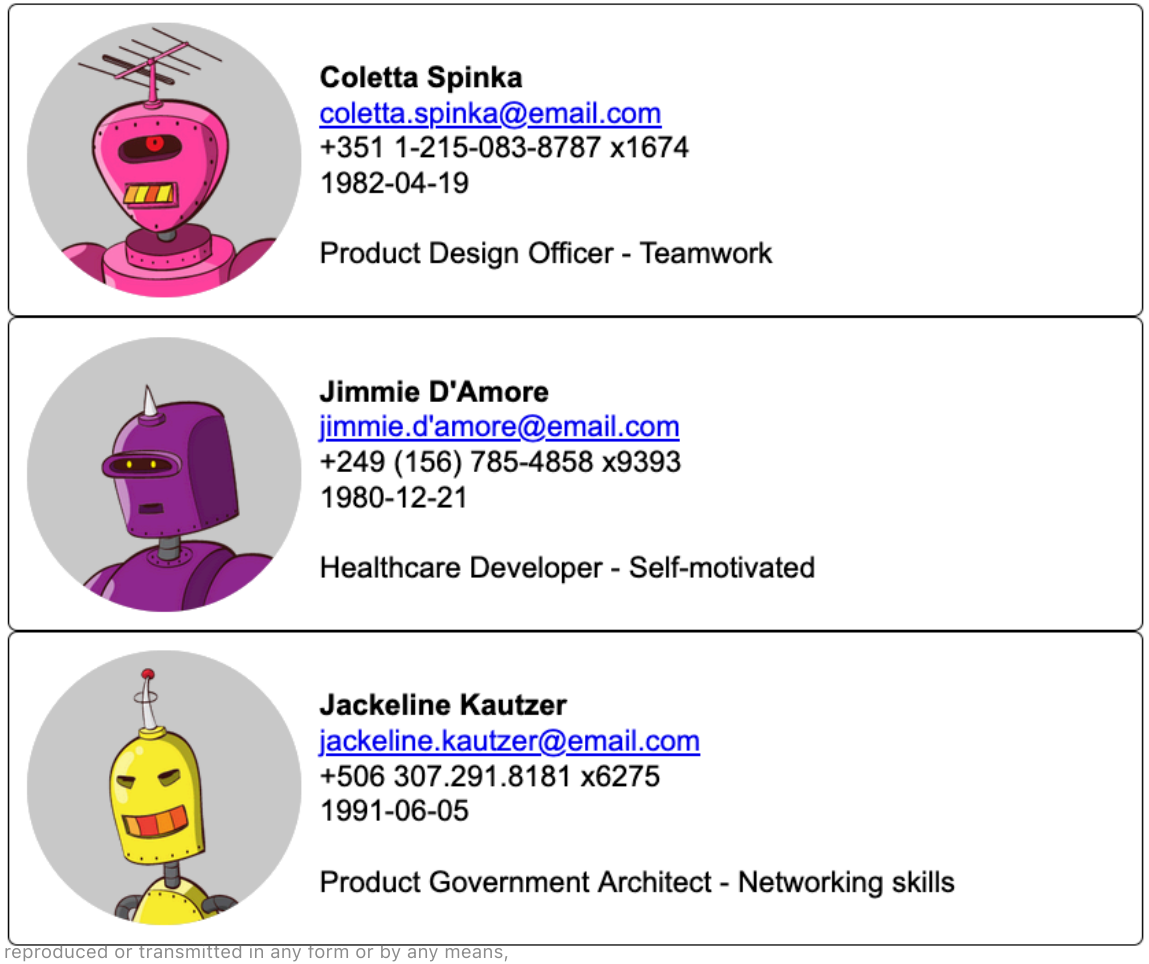
Exercise: Building A Profile Viewer



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Product Design Officer - Teamwork

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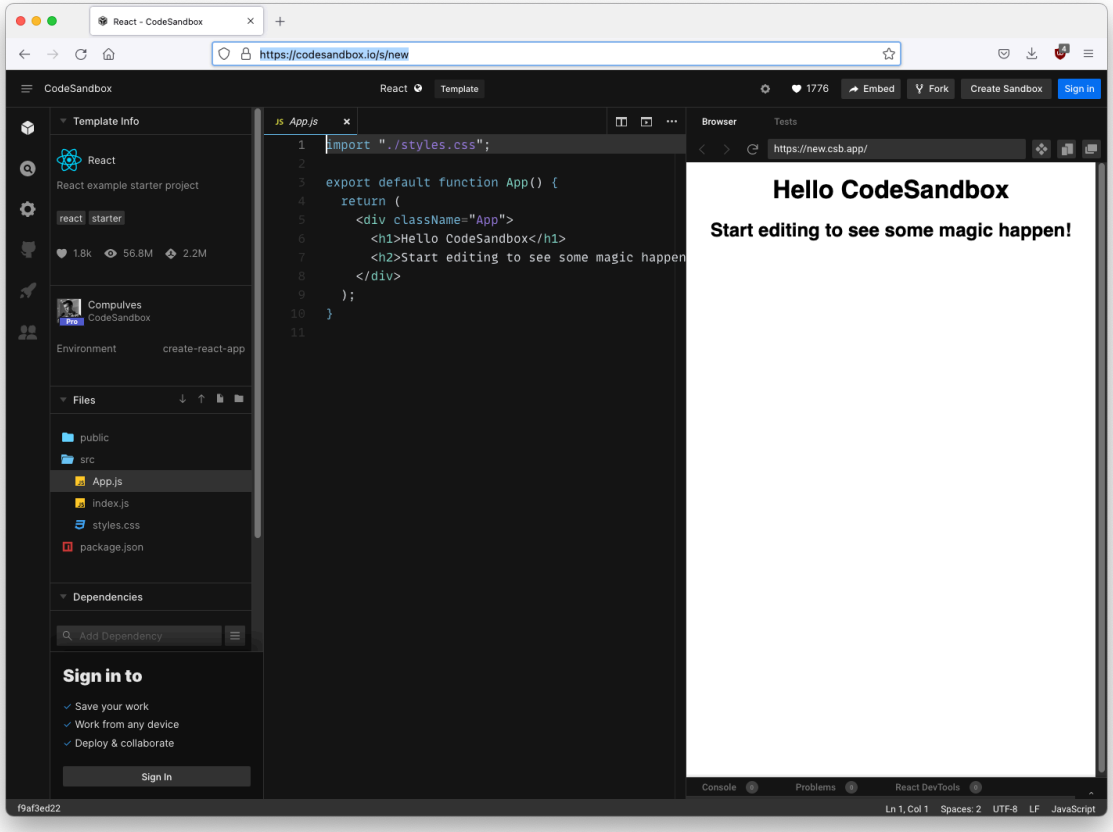
1. Create New React Sandbox

https://codesandbox.io/s/new



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2. Working With Dummy Data

https://random-data-api.com/api/v2/users?size=3

```
//taken from https://random-data-api.com/api/v2/users?size=3
const people = [
  {
    id: 1193,
    first_name: "Coletta",
    last_name: "Spinka",
    email: "coletta.spinka@email.com",
    avatar: "https://robohash.org/incumqueet.png?size=300x300\u0026set=set1",
    phone_number: "+351 1-215-083-8787 x1674",
    date_of_birth: "1982-04-19",
    employment: { title: "Product Design Officer", key_skill: "Teamwork" }
  },
  ...
]
```

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3. Copy Data to App.js

- Copy the **people array** to **src/App.js**
- Remove away other unnecessary codes

```
export default function App() {

  const people = [ ... ];

  return <div></div>;
}
```

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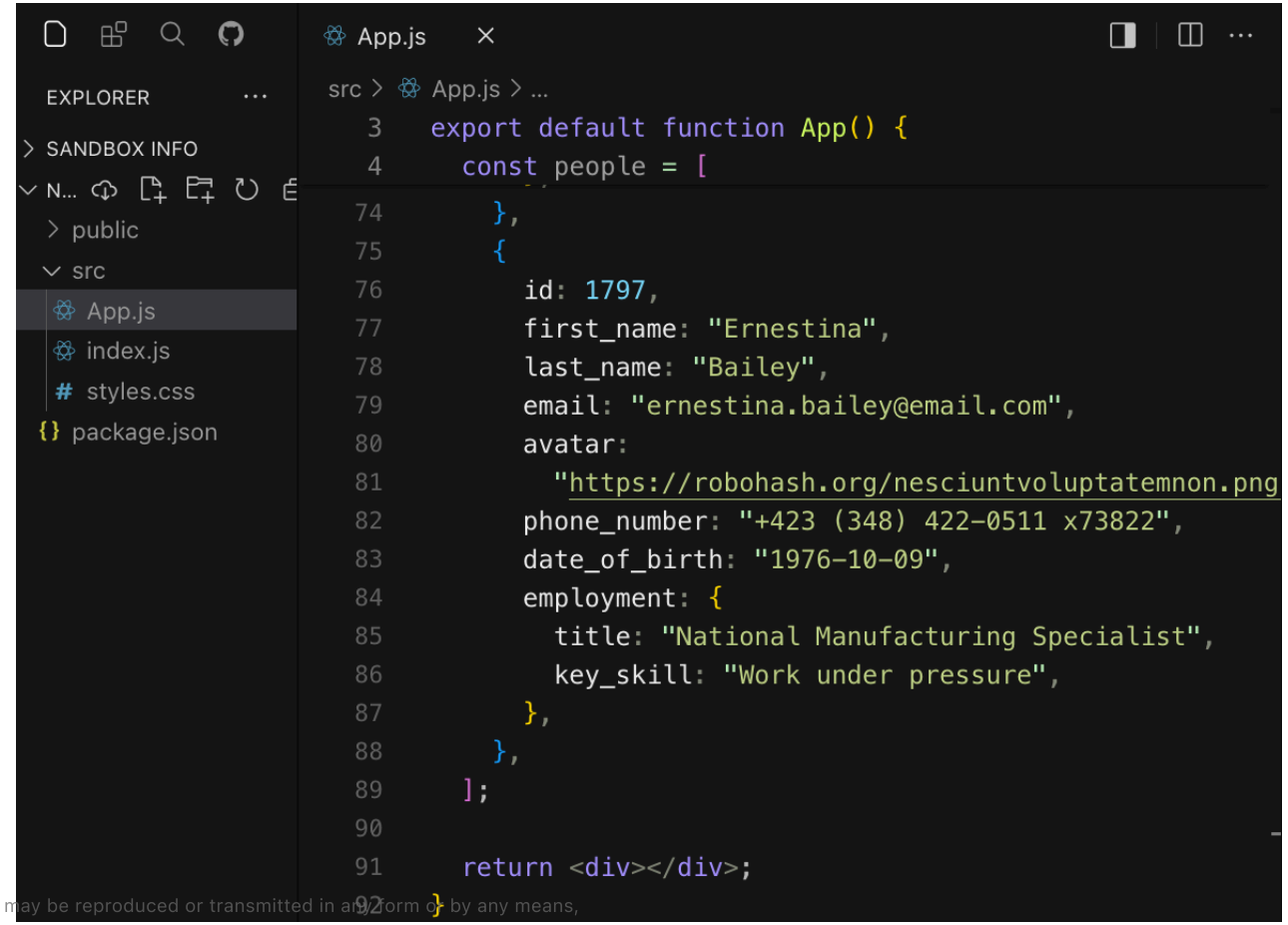
3. Copy Data to App.js

- It should look something like this



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4. Create Profile.js

- Create a new File (**src/Profile.js**)
- Put some placeholder codes

```
//src/Profile.js
export default function Profile(props) {
  //TODO
  return <div>PROFILE</div>;
}
```

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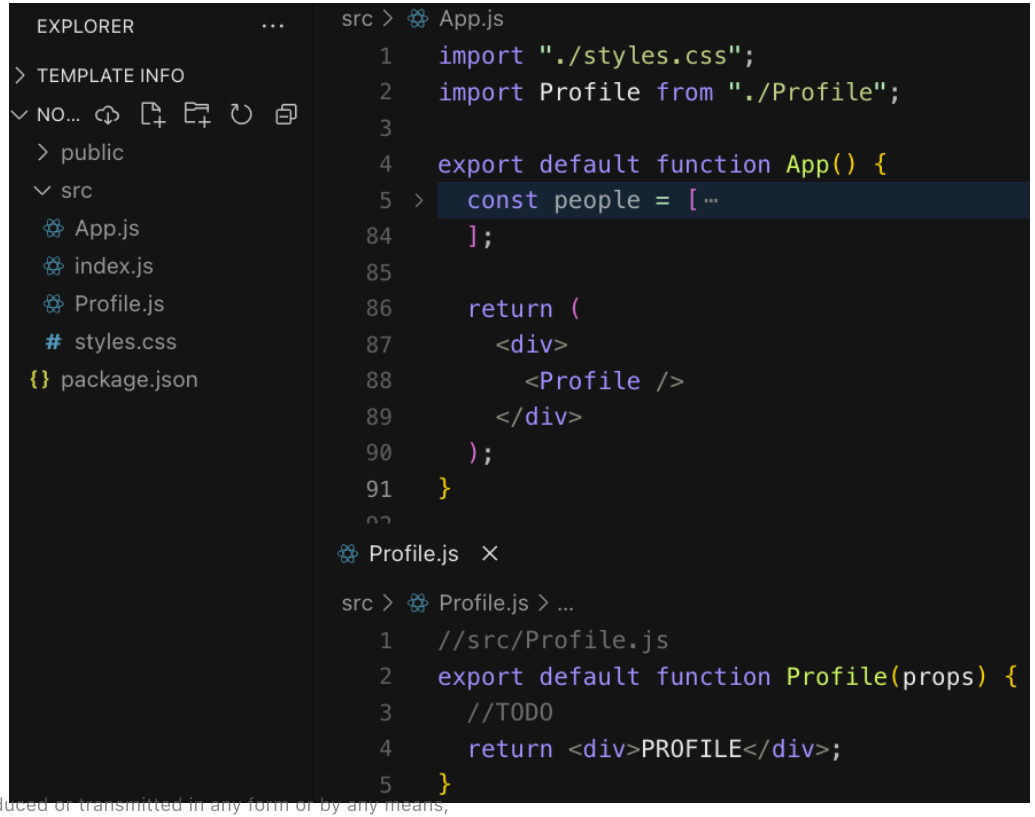
5. Use Profile component in App.js

- Import the Profile module
- Use the Profile component



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Profile Component

- The `<Profile />` should take in one user record through the props and display the user profile

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6. Modify App.js to use the `map()` function

- Modify **src/App.js** to use the `map()` function on the `people` array
- Do not forget to include the `key` prop

```
...
export default function App() {
  const people = [ ... ];

  const data = people.map((person) => {
    return <Profile key={person.id} />;
  });

  return <div>{data}</div>;
}
```

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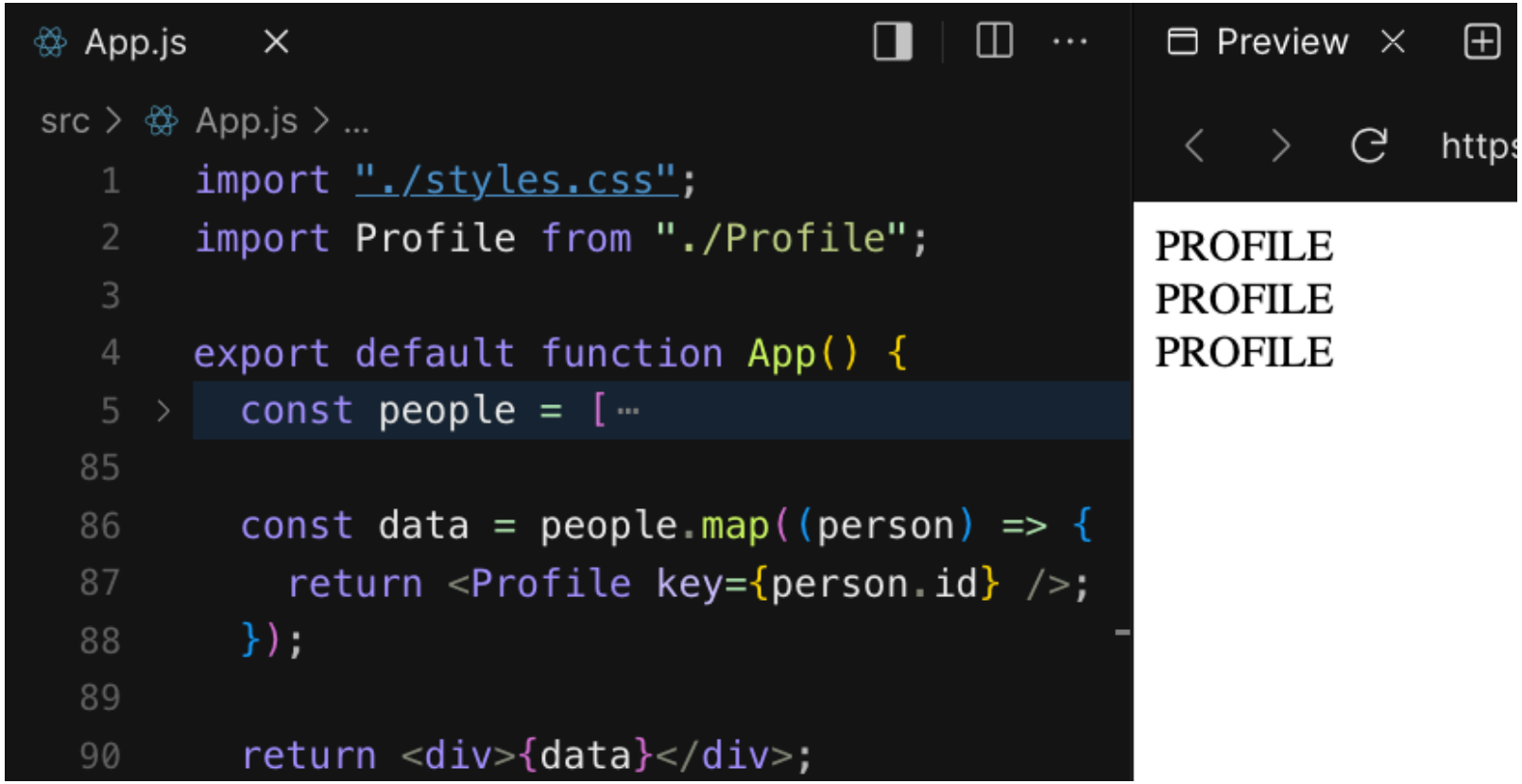
6. Modify App.js to use the `map()` function

- It should look something like this



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Styling Design Of Profile Component

- This is the styling design of the Profile component
- We will define 4 styles as normal Javascript objects:
  - `containerStyle`, `imageContainerStyle`, `imageStyle`, `descriptionContainerStyle`

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7. containerStyle

- Now, heading to **Profile.js**, we will define 4 JS objects for each of the style

```
//src/Profile.js
export default function Profile(props) {
  const containerStyle = {
    border: "1px solid black",
    width: "600px",
    height: "150px",
    padding: "10px",
    borderRadius: "5px",
  };
  ...
}
```

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7. `imageContainerStyle`

- Now, heading to **Profile.js**, we will define 4 JS objects for each of the style

```
//src/Profile.js
export default function Profile(props) {
  ...
  const imageContainerStyle = {
    display: "absolute",
    float: "left",
  };
}
```

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7. `imageStyle`

- Now, heading to **Profile.js**, we will define 4 JS objects for each of the style

```
//src/Profile.js
export default function Profile(props) {
  ...
  const imageStyle = {
    width: "150px",
    borderRadius: "50%",
    background: "#ccc",
  };
}
```

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7. descriptionContainerStyle

- Now, heading to **Profile.js**, we will define 4 JS objects for each of the style

```
//src/Profile.js
export default function Profile(props) {
  ...
  const descriptionContainerStyle = {
    float: "left",
    width: "400px",
    fontFamily: "Arial, Helvetica, sans-serif",
    padding: "20px 10px",
  };
}
```

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7. After Styling to Profile.js

- src/Profile.js should look like this

```
//src/Profile.js
export default function Profile(props) {
  const containerStyle = { ... };

  const imageContainerStyle = { ... };

  const imageStyle = { ... };

  const descriptionContainerStyle = { ... };

  ...
}
```

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8. Passing Props from App to Profile

- The next step is to spread the properties of `person` to the `<Profile />` component

```
//src/App.js
...
export default function App() {
  const people = [ ... ];

  const data = people.map((person) => {
    return <Profile {...person} key={person.id} />;
  });

  return <div>{data}</div>;
}
```

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8. Destructure Props in Profile

```
//src/Profile.js
export default function Profile(props) {
  ...
  //destructure the individual fields from the props
  const {
    first_name,
    last_name,
    avatar,
    email,
    phone_number,
    date_of_birth,
    employment,
  } = props;
  ...
}
```

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9. Incorporate The Styling In Profile

```
//src/Profile.js
export default function Profile(props) {
  ...
  return (
    <div style={containerStyle}>
      <div style={imageContainerStyle}>
        <img style={imageStyle} />
      </div>
      <div style={descriptionContainerStyle}>
        ???
      </div>
    </div>
  );
}
```

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Styling Of The Profile Component

- If everything works out, the App should look like this

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10. Adding Avatar To Profile

- Add `src={avatar}` to `<img />`
- Note that the avatar field has been destructured from props earlier

```
//src/Profile.js
export default function Profile(props) {
  ...
  return (
    <div style={containerStyle}>
      <div style={imageContainerStyle}>
        <img style={imageStyle} src={avatar} />
      </div>
      ...
    </div>
  );
}
```

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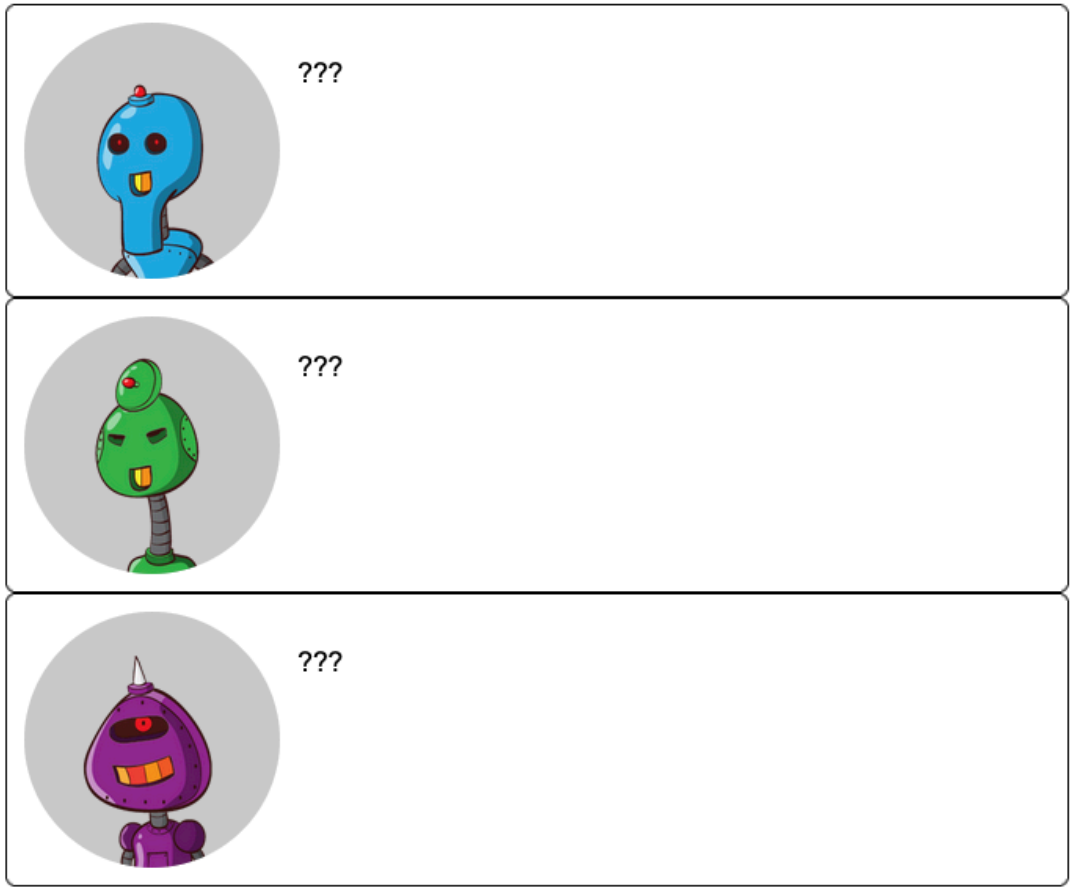
10. Adding Avatar To Profile

- If everything works out, the App should look like this



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TODO: Adding The Remaining Fields

- Similar to `avatar`, modify the JSX to complete the remaining information
- *Hint: For the `employment` prop, you need to further destructure out the `title` and `key_skill` fields*

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