Exercise: Create a "Profile Card" Component using JS and Create React App

Goal: Build a "Profile Card" React component that displays user details (name, age, and profile picture) passed as props using **JavaScript**.

1. Setup

Initialize the Project

Run the following commands to create a new React app using Create React App (no TypeScript):

```
npx create-react-app profile-card-app
cd profile-card-app
npm install
```

Start the Development Server

npm start

2. Component Creation

Create a ProfileCard. js File

Inside the src/components/ folder, create the file ProfileCard.js:

javascript

Create a ProfileCard.css File

In the same src/components/ folder, create ProfileCard.css for optional styling:

CSS

```
.profile-card {
 border: 1px solid #ccc;
 border-radius: 10px;
 padding: 20px;
 text-align: center;
 width: 200px;
 margin: 10px auto;
 box-shadow: 0px 4px 6px rgba(0, 0, 0, 0.1);
.profile-picture {
 width: 100px;
 height: 100px;
 border-radius: 50%;
 margin-bottom: 15px;
}
h2 {
 margin: 10px 0;
 color: #555;
```

3. Usage in App. js

Update the src/App.js

Replace the default content in App. js to import and render the ProfileCard component:

javascript

```
import React from 'react';
import './App.css'; // Optional global styles
import ProfileCard from './components/ProfileCard';

const App = () => {
   const profiles = [
      { name: 'John Doe', age: 30, profilePicture:
'https://via.placeholder.com/150', description: 'Software Engineer' },
      { name: 'Jane Smith', age: 25, profilePicture:
'https://via.placeholder.com/150', description: 'Graphic Designer' },
      { name: 'Alice Johnson', profilePicture:
'https://via.placeholder.com/150', description: 'Photographer' }, // No
age
```

```
];
  return (
    <div className="app">
      <h1>Profile Cards</h1>
      {profiles.map((profile, index) => (
        <ProfileCard
          key={index}
          name={profile.name}
          age={profile.age}
          profilePicture={profile.profilePicture}
          description={profile.description}
        />
     ))}
    </div>
};
export default App;
```

4. Styling in App. css (Optional)

Add some global styles in src/App.css:

CSS

```
.app {
  text-align: center;
  padding: 20px;
}

h1 {
  font-size: 2rem;
  color: #333;
}
```

5. File Structure

After the changes, your file structure should look like this:

```
/profile-card-app
 - public/
                            # Static assets
  - src/
                            # Source files
     -- components/
                            # Component folder
        - ProfileCard.js # ProfileCard component
        - ProfileCard.css # Optional CSS for styling
      - App.js
                            # Main application file
      - App.css
                           # Optional global styles
                         # React entry point
      - index.js
      - index.css
                          # Optional global styles
  - package.json
                           # Package manager file
```

 node_	_modules/
 README.md	

- # Installed dependencies
- # Documentation

6. Run the App

Start the app with:

npm start

7. Output

You should see a "Profile Cards" page displaying multiple user cards with their profile pictures, names, ages (if provided), and descriptions (if provided).

Challenge (Optional Enhancements)

- 1. Add More Props:
 - o Include fields like location, hobbies, or a link to social profiles.
- 2. Improve Styling:
 - o Use a library like Bootstrap, Material-UI, or custom SCSS for advanced styling.
- 3. **Dynamic Profile Data**:
 - o Fetch profiles from a REST API instead of hardcoding them. Use tools like axios or the Fetch API.

This JavaScript version simplifies the original TypeScript implementation while maintaining all functionality.