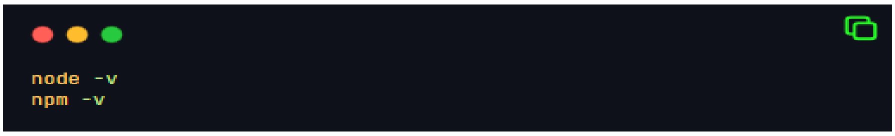
BIS601 Program 5

5. Build a React application to track issues. Display a list of issues (use static data). Each issue should have a title, description, and status (e.g., Open/Closed). Render the list using a functional component.

Step 1: Install Node.js and npm

Before you start, ensure you have **Node.js** and **npm** (Node Package Manager) installed on your machine.

- Download and install the latest version of Node.js.
- After installing, you can check the versions of Node.js and npm in the terminal:



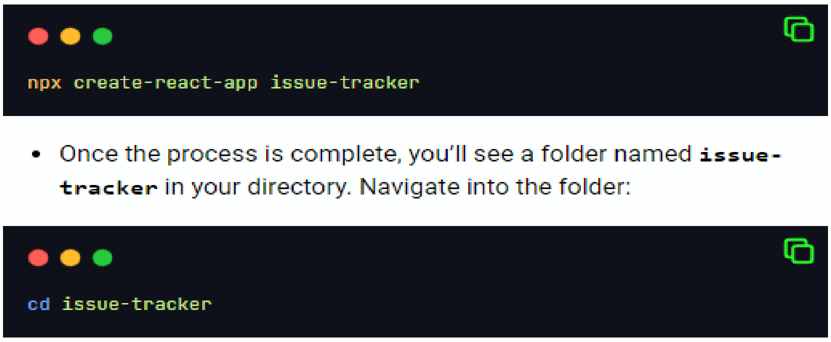
```
node -v
npm -v
```

Step 2: Create a folder

- Create a folder in **any location**.
- Open folder in **vscode**.

Step 3: Open Integrated vscode Terminal

- Type below command in your terminal to create **react app**.
-



```
npx create-react-app issue-tracker
```

- Once the process is complete, you'll see a folder named `issue-tracker` in your directory. Navigate into the folder:

```
cd issue-tracker
```

Step 4: Modify the `App.js` File and App.css file

- Modify the app by editing **`src/App.js`** copy the below code and paste it, save it.

- Modify the app by editing **`src/App.css`** copy the below code and paste it, save it.
- **App.js:**

```
import React from 'react';
import './App.css';

const issues = [
  {
    id: 1,
    title: "Bug in login page",
    description: "The login page throws an error when submitting invalid credentials.",
    status: "Open",
  },
  {
    id: 2,
    title: "UI glitch on homepage",
    description: "There is a UI misalignment issue on the homepage for smaller screens.",
    status: "Closed",
  },
  {
    id: 3,
    title: "Missing translation for settings page",
    description: "The settings page is missing translations for the Spanish language.",
    status: "Open",
  },
  {
    id: 4,
    title: "Database connection error",
    description: "Intermittent database connection issue during peak hours.",
    status: "Open",
  },
];

const Issue = ({ title, description, status }) => {
  return (
    <div className="issue">
      <h3>{title}</h3>
      <p>{description}</p>
      <span className={`status ${status.toLowerCase()}`}>{status}</span>
    </div>
  );
};

const App = () => {
  return (
    <div className="App">
      <h1>Issue Tracker</h1>
      <div className="issue-list">
        {issues.map((issue) => (
            <Issue
              key={issue.id}
              title={issue.title}
              description={issue.description}
              status={issue.status}
            />
          ))}
        </div>
      </div>
    );
  };

  export default App;
```

- ## App.css:

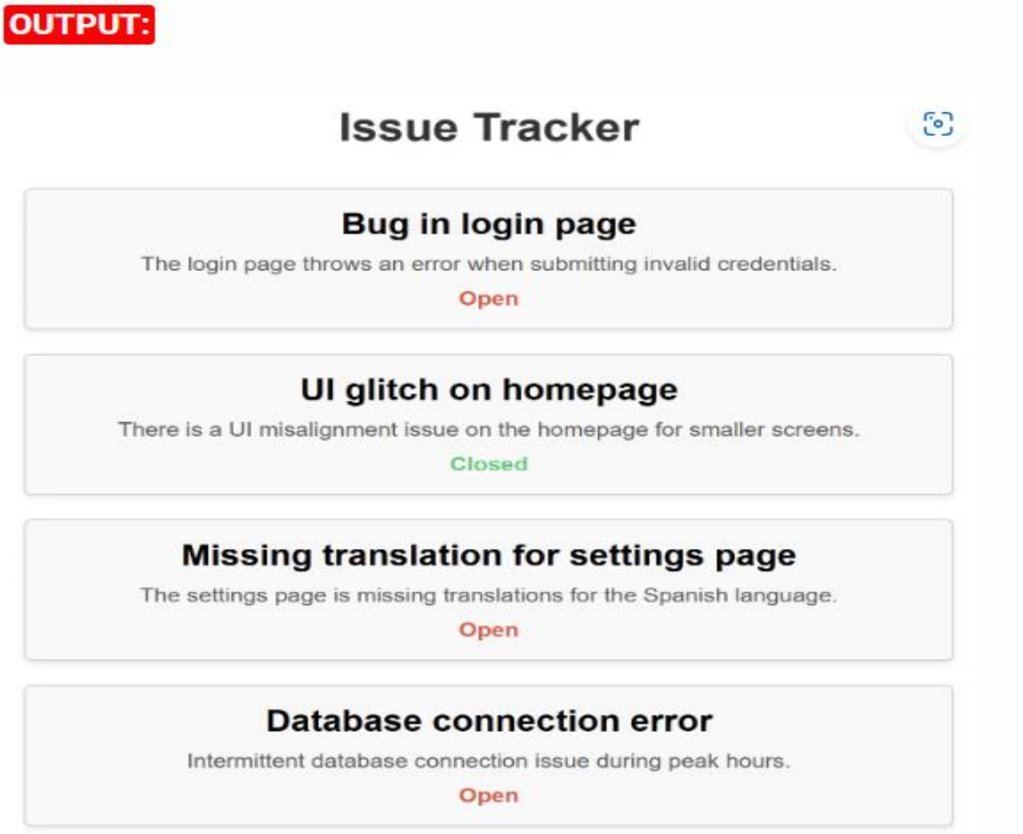
```
.App {
  font-family: Arial, sans-serif;
  text-align: center;
  margin: 20px;
}

h1 {
  color: #333;
}

.issue-list {
  display: flex;
  flex-direction: column;
  align-items: center;
}

.issue {
  background-color: #f9f9f9;
  border: 1px solid #ccc;
  border-radius: 5px;
  padding: 15px;
  margin: 10px;
  width: 80%;
  max-width: 600px;
  box-shadow: 0 2px 5px rgba(0, 0, 0, 0.1);
}

.issue h3 {
  margin: 0 0 10px;
  font-size: 1.5em;
}

.issue p {
  margin: 0 0 10px;
  color: #555;
}

.status {
  font-weight: bold;
}

.status.open {
  color: #e74c3c;
}

.status.closed {
  color: #2ecc71;
}
```

- **Step 5: Start the Development Server**
- Now, you can start the development server by using below command:

```
npm start
```

- This will start a local development server and automatically open your new React application in your default web browser. The server will reload the page automatically whenever you make changes to your code.

output



OUTPUT:

Issue Tracker

Bug in login page

The login page throws an error when submitting invalid credentials.

Open

UI glitch on homepage

There is a UI misalignment issue on the homepage for smaller screens.

Closed

Missing translation for settings page

The settings page is missing translations for the Spanish language.

Open

Database connection error

Intermittent database connection issue during peak hours.

Open