App 2 – React routing, props, and state application

Learning outcome: After completion of App 2, students should be able to reuse code efficiently by utilizing props, effectively route data to various components within the React App, and use React state to create UI components in the React App.
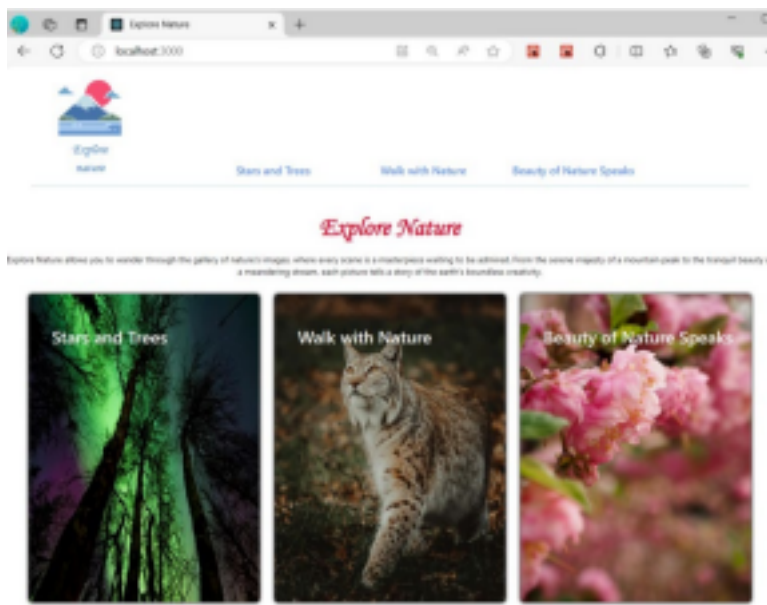
Estimate time to complete project: 4+ hours

App Description: App 2 involves creating an app showcasing images or information organized in various paths within the application, all with a consistent card design. The choice of topic is open-ended. For instance, if the theme is centered around nature photography, the app could be named "Explore Nature," featuring sections like Home (accessible via an icon), Stars and Trees, Walk with Nature, and Beauty of Nature Speaks, each accessible through distinct navigation links and card content within the app. The App should have three React applications:
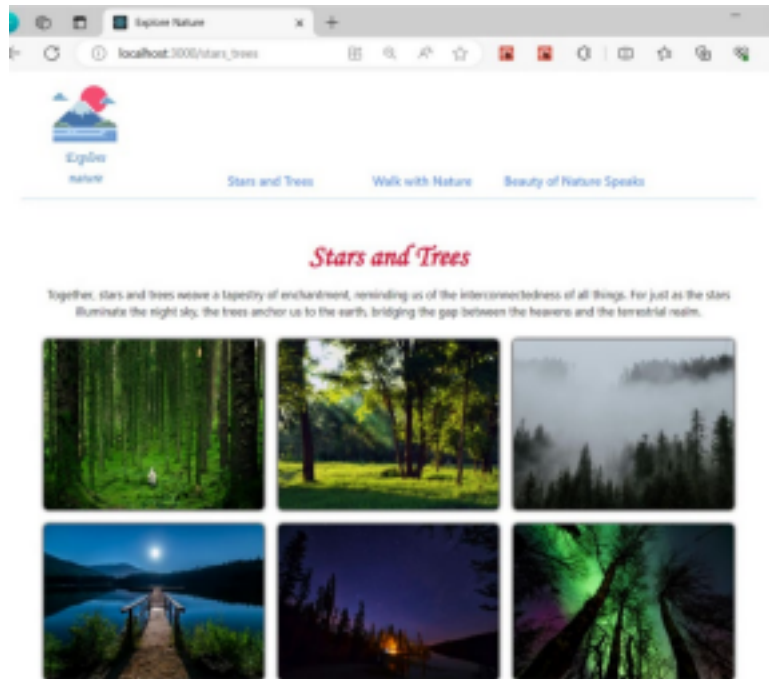
- The card should be generated in one js file named 'card.js', and the layout/design of the card, should be reused using the concept of React props.
- Users should be able to navigate between different sections of the app using <Link> components embedded in text and within cards. For this, students should use React routing techniques.
- The app should show an User Interface, UI, application, for example, a open and close button, a slice application, or a form application.

App templates:

A template React App could be to explore the nature through images. When the App runs, the user can navigate to three main paths 'Stars and Trees', 'Walk with Nature', and 'Beauty of Nature Speaks' as shown in the image below:
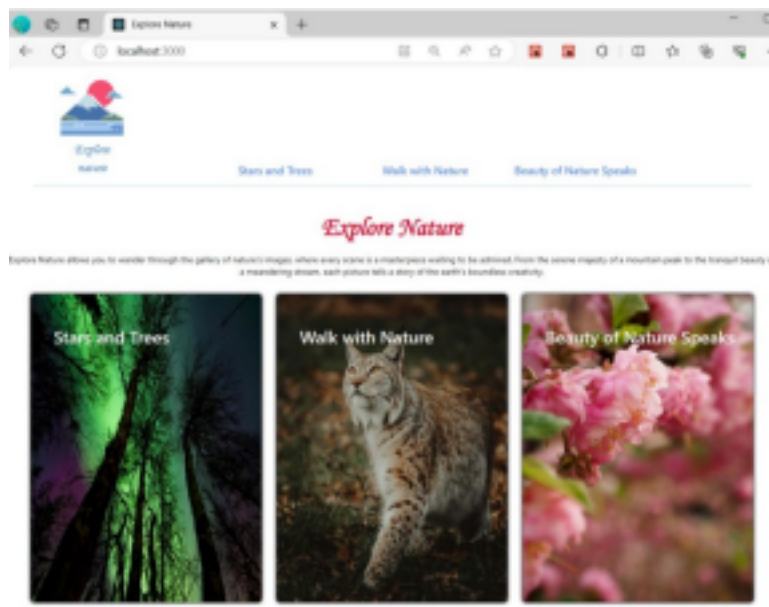
Within the App, if user clicks on "Stars and Trees" either from the navigation tab or from the card content, it should route to the corresponding page dedicated to "Stars and Trees."
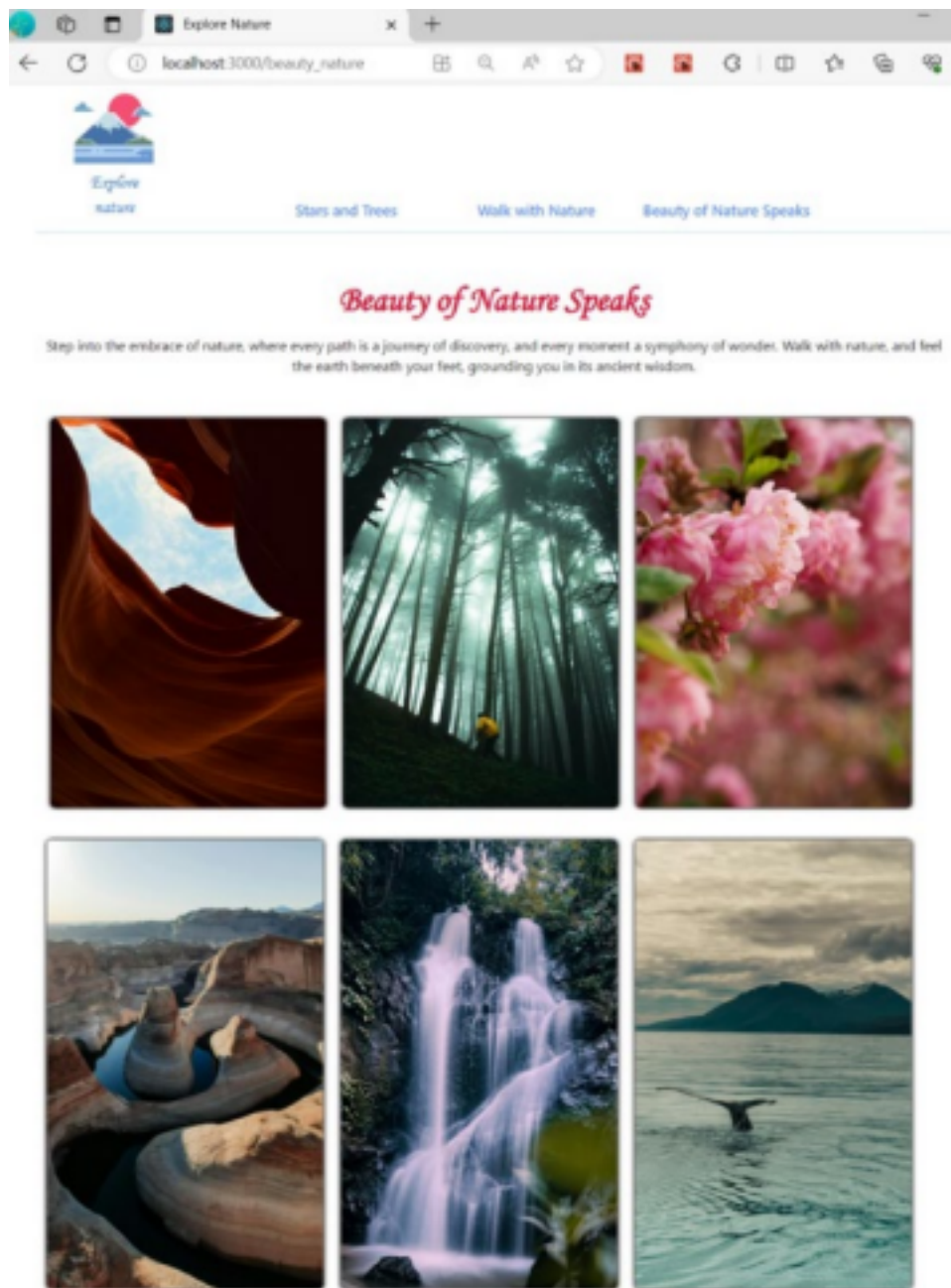

The app should feature a unified card design, implemented through props, across all paths within the application. It should display three distinct types of images, all adhering to the same card design, and transition between individual pages while maintaining consistency using props. This design of the card must be saved as a js file and named *card.js.* For instance, all three different pages within the app, along with the homepage, should employ the same card design:
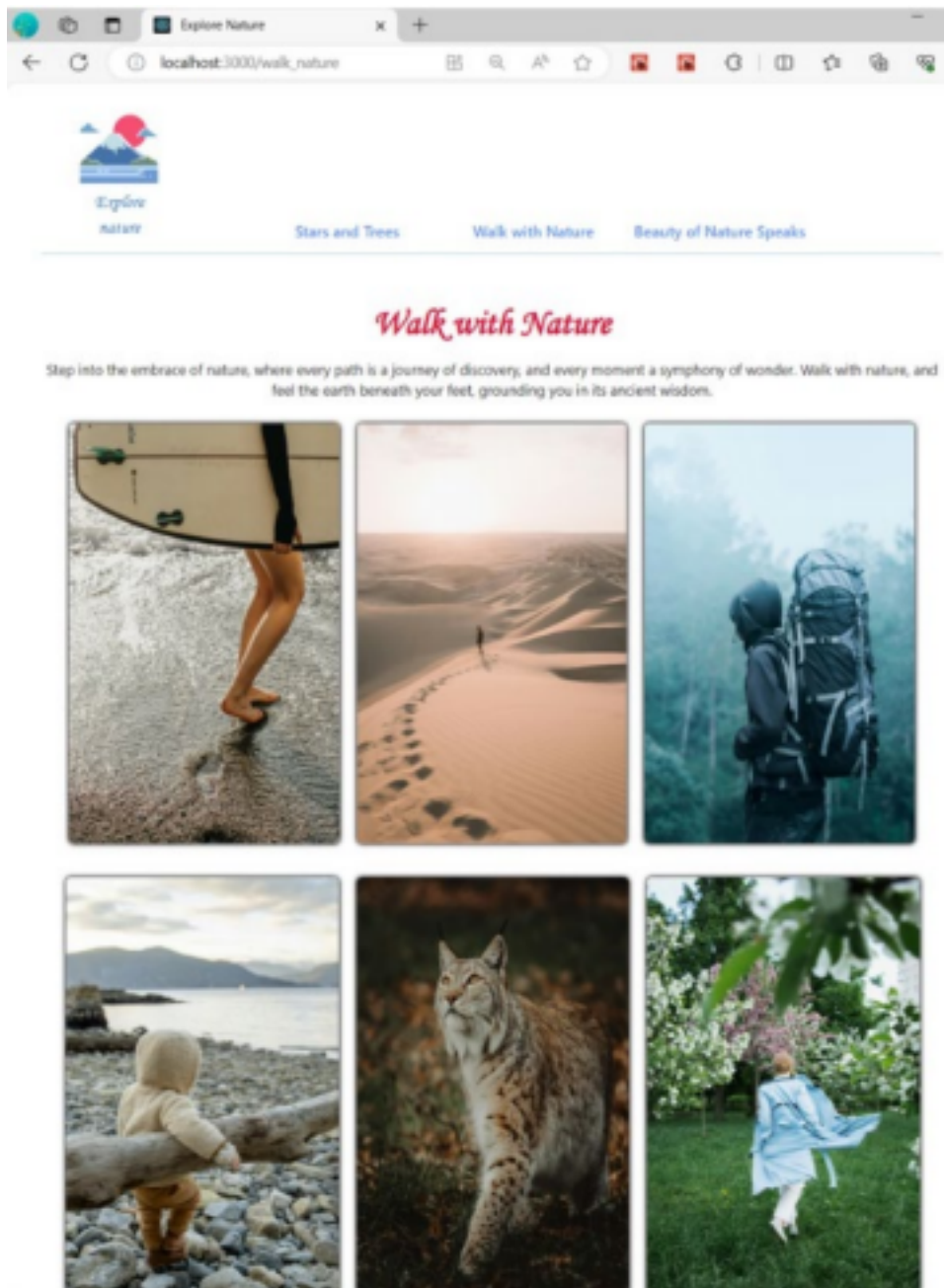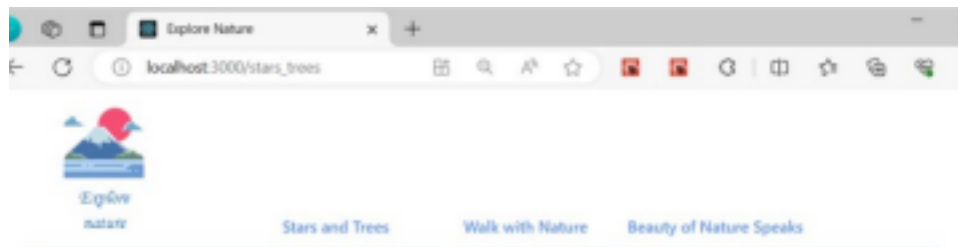
Home page view

Speak with Nature view

Walk with Nature view

Stars and Trees view

App Grading:

• Routing design for a <Link> in navigation tab: 5 pts

• Routing design for a <Link> in a card: 5 pts

• Creation of card.js file: 2 pts

• Design of card.js to replicate the cards in each page: 10 pts

• Creation of three different pages and a home page: 8 pts (2 pts per page) • Each page should have a title, an introduction paragraph, and at least six different images: 8 pts (2 pts per page)

• App presentation: 5 pts

• App styling: 7 pts

• React state application: 10 pts

• **Total points: 60 points**

Submission:

Stage and commit the complete **src** folder

Deadline: Sunday, July 28, 2024 by midnight