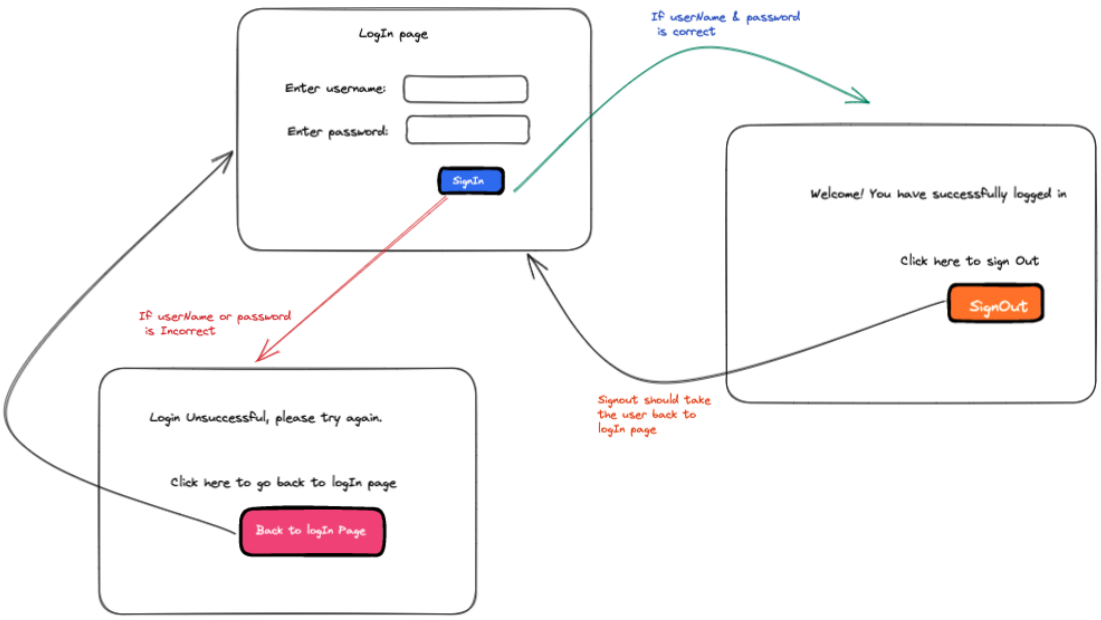
HOMEWORK WEEK 3
(handout for students)

Task description
This task is an **individual task**. You will be creating your own personal project. The goal is to create a simple login-logout web app
Part 1 - 90 MARKS

Your react web app should contain the following:
 	
● It should have 3 screens
● Here are the scenarios to consider:
  ○ Users can log in successfully with the correct username and password.
  ○ User is redirected to a "logIn unsuccessful" page when the username or password is incorrect.
  ○ A user should be able to redirect back to the "logIn" page from the "logIn unsuccessful" page,
  ○ When a user has successfully logged in, the user should be able to log out. This should take the user back to the logIn page.
 	
Here's an example wireframe of the flow of the web app. (*Feel free to create and design your web app anyway you would like, this is just an example*).
 	
 

Note: Take a look at Lesson 5 slide material to remind yourself on how to create a react app. Look at Lesson 10 slide for details on useState();

HINT

In a React application, `useState` is a Hook that allows you to add state management to functional components. You can use useState to implement a basic login and logout mechanism.
Here's a brief explanation of how you could use useState for this purpose:

1. *Login Mechanism: Let's assume you have a login form where users enter their username and password. When the form is submitted, you can use useState to manage the state of whether a user is logged in or not.*
   const [something, setSomething] = useState('');
   const [listOfStuffs] = ['stuff1, stuff2, stuff3']
2. *Logout Mechanism:*
   When the user is logged in, the component displays a welcome message and a "SignOut" button. Clicking the "Logout" button should do something to the state, effectively logging the user out.

3. *Login Handling:*
   When a user clicks on the submit button - write a logic on how to check when the user provides a correct username and password, if they do then the user should be directed to the correct page/ component. Depending on your logic or how your states are set up ask yourself - would this do anything to the state?

4. *Input Handling:*
   Make sure that a state is managing the values of the input fields.
   Think about what the `onSubmit` event handlers should do, or if you also need an onChange event handler (it's up to you)

If you want to try something new (this is if you have more time) maybe try Conditional Rendering
The component could use conditional rendering to display either the login form or the welcome message and logout button based on the state of the user (if they logged in successfully or not.)

Part 2 -10 MARKS

Submission format

- Create a repository on GitHub for homework3
- Add your files to the repository
- Upload a screenshot of what this looks like and a screen-recorded demo of your web app to the repo
- Invite your assigned instructor as a collaborator and share github repo link with them via slack messages.