

Numeric Sequence Generator

Create an Angular/React app to generate sequence and display N numbers from the sequence in selected shape

Functionality

1. Welcome Page (Route: <http://localhost/welcome>, default route)
 - a. Show welcome message and ask users to input their name.
 - b. When clicked on the continue button, save the entered name in local storage and redirect to the home page.
 - c. When welcome page loads check,
 - i. If user name is saved in the local storage redirect to home page
 - ii. If user name is not saved in the local storage, then stay on welcome page to get name from user
2. Home Page (Route: <http://localhost/home>)
 - a. Show Hello "Name", name of the user from local storage.
 - b. Show a text box to take N, a number as input and also show a dropdown for choosing display option.
 - c. When clicked on submit, you need to generate the sequence and display N numbers from the sequence. Here, N is the number entered in the input box. The sequence should be as given below.

Sequence: 2, 4, 6, 9, 12, 15, 19, 23, 27, ... ∞ .

E.g. 1: if input N is 5, the numbers 2, 4, 6, 9, 12 should be displayed.

E.g. 2: if input N is 9, the numbers 2, 4, 6, 9, 12, 15, 19, 23, 27 should be displayed.
 - d. Display numbers in square or circle as per the selected display option in the dropdown.
 - e. When home page loads check
 - i. if user name is saved in local storage, display as in the navbar component
 - ii. If user name is not saved in the local storage, redirect to welcome page
 - f. Home page should have three components
 - i. Navbar,
 - ii. Input Component
 - iii. Output Component

Refer: <https://share.getcloudapp.com/04uLB46L>

Sequence Logic:

- The sequence starts from 2
- From 2 it increases by 2 for the next 2 numbers.
- Then it increases by 3 for the next 3 numbers.
- After that, it increases by 4 for next 4 numbers, then by 5 for next 5 numbers and so on up to infinity.

Implement assignment as below:

Task 1: Implement welcome, home page routing along with given design

Task 2: Create Home page components as per instructions

Task 3: Accept name from user and display on home page

Task 4: Generate the number series as per user input and sequence logic

Task 5: Implement redirection logic based on whether user name is saved or not for Welcome page

Task 6: Implement redirection logic based on whether user name is saved or not for Home page

[Click here to view and download the design](#)

You need to strictly use this design only.