

**CSSE3101 – ADVANCED WEB TECHNOLOGIES**

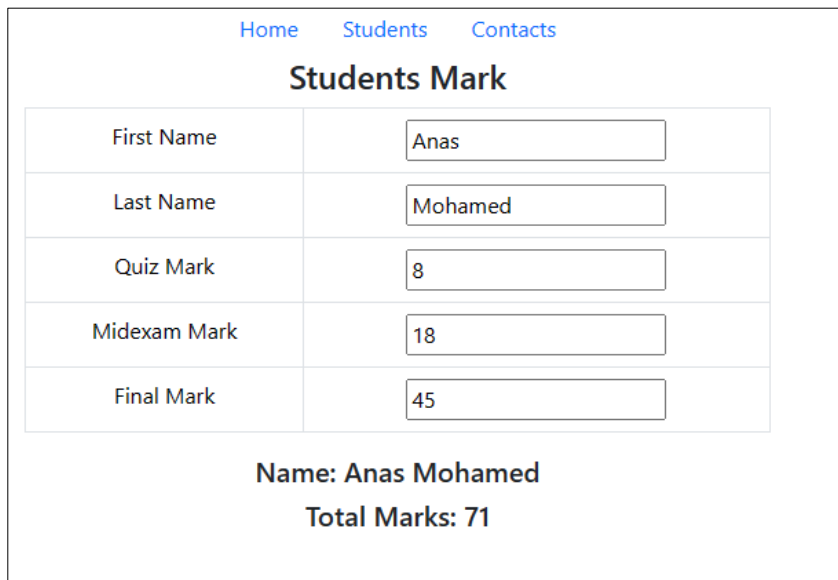
**Exercise 6 – React Basics (Components, Routers, Hooks and Lists)**

Create a React application that computes the total marks of the students.

**Part 1 – Creating Components**

1. Create a new react app: **studentmarks**
2. Create a folder **Components** and create the following components inside the created folder. Refer to the screenshots for the content for each component.

a. **Home**

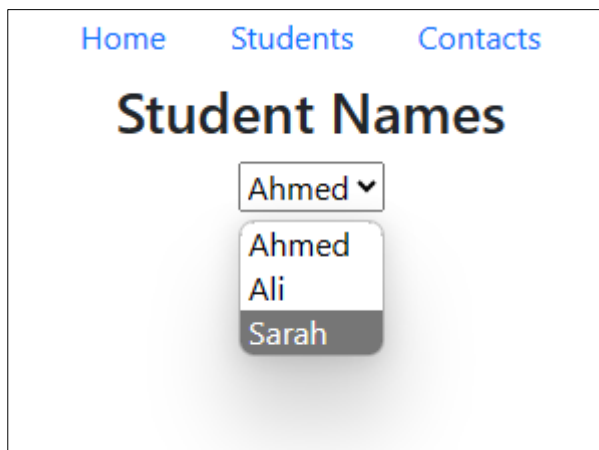


The screenshot shows a web application with three navigation links: Home, Students, and Contacts. The title is "Students Mark". Below the title is a form with five rows, each with a label and an input field:

First Name	Anas
Last Name	Mohamed
Quiz Mark	8
Midexam Mark	18
Final Mark	45

Below the form, the text "Name: Anas Mohamed" and "Total Marks: 71" are displayed.

b. **StudentsList**



The screenshot shows a web application with three navigation links: Home, Students, and Contacts. The title is "Student Names". Below the title is a dropdown menu with the text "Ahmed" and a downward arrow. The dropdown menu is open, showing a list of names: Ahmed, Ali, and Sarah. The name "Sarah" is highlighted.

# University of Technology and Applied Sciences- Nizwa

## Information Technology Department

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### Part 2 – Creating Routes

3. Update your App.js and use the React Router to create routes to the two components.
  - a. /- render the **Home** component
  - b. /stdlist- render the **StudentsList** component
  - c. /contacts - render the **Contacts** component

### Part 3 – Creating Hooks

4. In the **Home** component:
  - a. Create the appropriate code needed to implement the functionality as shown in the video.

### Part 4 – Using list and map() function

5. In the **StudentsList** component:
  - a. Create a list of students with at least 5 default values.
  - b. Display these students in select when the page renders.

### Part 5 – Creating Contacts component

6. Create a Contact component to show your contact details..