St. Francis Institute of Technology
Mount Poinsur, S.V.P. Road, Borivali (W), Mumbai-103

Class: TE IT A & B   **Academic Year: 2023-2024**

Experiment – 8
Design of the homepage of College Website using Bootstrap

Aim: To design the homepage of college website using bootstrap.

Objective: After performing the experiment, the students will be able to understand and design responsive websites

Lab objective mapped: Students will be able to design responsive websites using Bootstrap
 (PO3, PO5, PSO3, PSO4)

Prerequisite: HTML, CSS, Bootstrap

Requirements: The following are the requirements –

- PC/Laptop
- Visual Studio Code
- Browser

6. Pre-Experiment Theory:

Bootstrap is a free front-end framework for faster and easier web development. It includes HTML and CSS based design templates for typography, forms, buttons, tables, navigation, modals, image carousels and many other, as well as optional JavaScript plugins. It also gives you the ability to easily create responsive designs.

STEPS-

- Add the HTML5 doctype
- Bootstrap 4 is designed to be responsive to mobile devices. Mobile-first styles are part of the core framework. To ensure proper rendering and touch zooming, add the following <meta> tag inside the <head> element
- Containers - Bootstrap 4 also requires a containing element to wrap site contents. There are two container classes to choose from:
    - The .container class provides a responsive fixed width container. Use the .container class to create a responsive, fixed-width container. Note that its width (max-width) will change on different screen sizes
    - The .container-fluid class provides a full width container, spanning the entire width of the viewport. Use the .container-fluid class to create a full width container, that will always span the entire width of the screen (width is always 100%)

You can also use the .container-sm|md|lg|xl classes to create responsive containers. The max-width of the container will change on different screen sizes/viewports

7. Laboratory Exercise:
A. Procedure

Open Visual Studio Code

Import Bootstrap Extension in Visual Studio Code
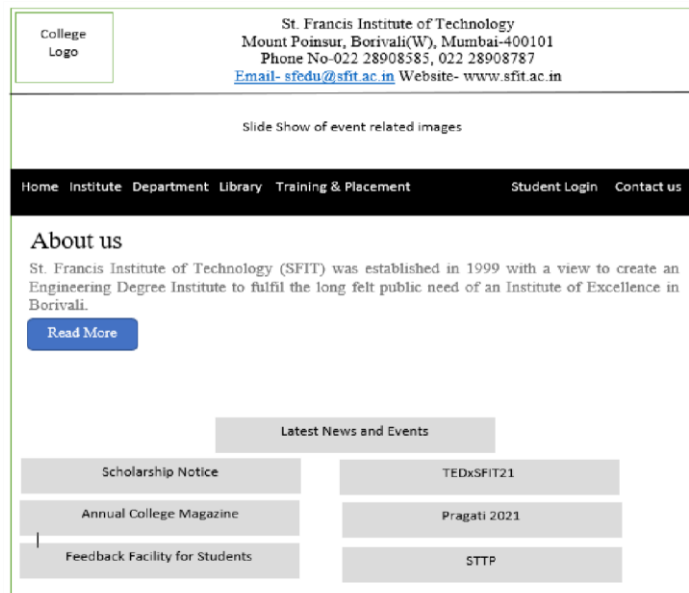
Select File, New to write to a new file

Save the file as .html

Write b4-$ to import source code of Bootstrap and then complete the remaining code
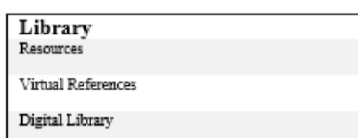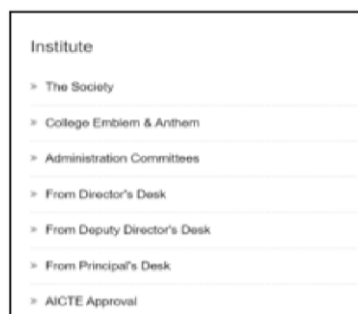
To view the output, right-click on the file and select Open With option. Then choose any web browser that is available. Check output
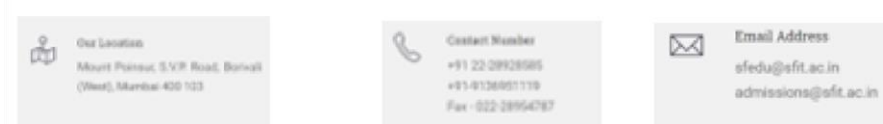
B. Program Code

Design the homepage of college website using bootstrap using the suggestive guidelines as mentioned below. However, you are free to include other features covered earlier to make the design more feature rich.
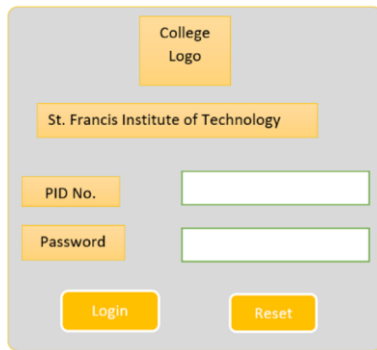

In Navbar at Department, Institute, Library show the dropdown list:

Contact us: Create a new page and show=>

For Student Login create a login form:

8. Post Experimental Exercise-
- What is Bootstrap?
- What is bootstrap container?

9. Results/Observations/Program output:
Present the program code and output

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <title>College Website</title>
<!-- Bootstrap CSS -->
  <link href="https://cdn.jsdelivr.net/npm/bootstrap/dist/css/bootstrap.min.css" rel="stylesheet">
<style>
    .jumbotron {
      background: url('clg.jpg') no-repeat center center;
background-size: cover;
      color: #fff;
    }

    .college-name {
background-color: #333;
      color: #fff;
text-align: center;
 padding: 10px 0;
      font-size: 36px; /* Larger font size for the college name */
    }

    .college-logo {            height: 60px; /* Set the height
of your logo */          margin-right: 10px; /* Adjust
margin as needed */
    }
  </style>
</head>

<body>
  <!-- College Name -->
  <div class="college-name">
    <div class="container">
      <img src="logo.jpg" alt="College Logo" class="college-logo"> <!-- Replace 'logo.png' with your
actual logo file -->
      <b>St. Francis Institute of Technology</b>
```

```
        </div>
      </div>

<!-- Navigation Bar -->
<nav class="navbar navbar-expand-lg navbar-light bg-light">
    <div class="container">
      <!-- ... (college name and logo) ... -->
      <button class="navbar-toggler" type="button" data-bs-toggle="collapse" data-bs-target="#navbarNav"
aria-controls="navbarNav" aria-expanded="false" aria-label="Toggle navigation">          <span
class="navbar-toggler-icon"></span>
      </button>
      <div class="collapse navbar-collapse" id="navbarNav">
        <ul class="navbar-nav ml-auto">
          <li class="nav-item">
            <a class="nav-link" href="#">Home</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="about.html">About</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="courses.html">Courses</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="admissions.html">Admissions</a>
          </li>
          <li class="nav-item">
            <a class="nav-link" href="contact.html" target="_blank">Contact Us</a> <!-- Opens in a new
tab -->
          </li>
          <li class="nav-item">
            <a class="nav-link" href="student-login.html" target="_blank">Student Login</a> <!-- Opens
in a new tab -->
          </li>
</ul>
      </div>
    </div>
</nav>

    <!-- Jumbotron (Header) -->
    <div class="jumbotron text-center">
      <h1 class="display-4"><b>Welcome to Our College!</b></h1>
      <p class="lead"><b>Providing Quality Education Since 1999</b></p>
      <a class="btn btn-primary btn-lg" href="#" role="button">Learn More</a>
</div>

    <!-- Main Content Area -->
    <div class="container">
      <div class="row">
        <div class="col-md-6">
<h2>About Us</h2>
          <p>Lorem ipsum dolor sit amet, consectetur adipiscing elit. Nullam nec turpis at ante tincidunt
fermentum.
            Duis
            sed
```

```
                lacinia velit. Morbi nec neque id odio interdum malesuada.</p>
</div>
        <div class="col-md-6">
           <h2>Our Courses</h2>
           <ul>
              <li>Computer Science</li>
              <li>Information Technology</li>
              <li>Electronics and Telecommunication</li>
              <li>Mechanical Engineering</li>
              <li>Electrical Engineering</li>
           </ul>
        </div>
     </div>
   </div>


   <!-- Footer -->
   <footer class="bg-dark text-white text-center py-3">
      <p>&copy; 2023 St. Francis Institute of Technology. All rights reserved.</p>
</footer>


   <!-- Bootstrap JS and dependencies -->
   <script src="https://cdn.jsdelivr.net/npm/bootstrap/dist/js/bootstrap.bundle.min.js"></script> </body>
</html>
```

#contact.html
```
<!DOCTYPE html>
<html lang="en">
<head>
   <!-- ... (head section) ... -->
   <title>Contact Us - College Website</title>
</head>
<body>
   <h1>Contact Us</h1>
   <p>For inquiries, please feel free to contact us:</p>

   <address>
      <strong>St. Francis Institute of Technology</strong><br>
      Mount Poinsur, S.V.P. Road,<br>
      Mumbai, Maharashtra, 400 103<br>
      Phone:  +91 9167370622 / +91 9167370632 / +91 9167370637<br>
      Email: sfedu@sfit.ac.in
   </address>
</body>
</html>
```
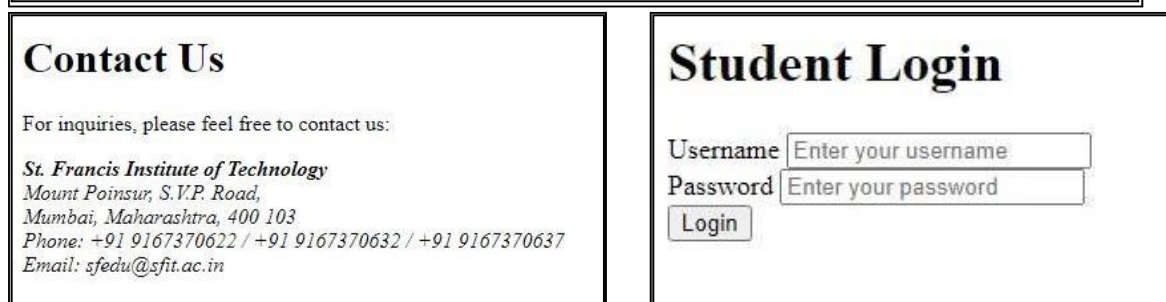
#studentlogin.html
```
<!DOCTYPE html>
<html lang="en">
<head>
   <!-- ... (head section) ... -->
   <title>Student Login - College Website</title> </head>
<body>
   <h1>Student Login</h1>
   <form>
```

```html
    <div class="mb-3">
      <label for="username" class="form-label">Username</label>
      <input type="text" class="form-control" id="username" placeholder="Enter your username" required>
    </div>
    <div class="mb-3">
      <label for="password" class="form-label">Password</label>
      <input type="password" class="form-control" id="password" placeholder="Enter your password" required>
    </div>
    <button type="submit" class="btn btn-primary">Login</button>
</form>
</body>
</html>
```


10. Conclusion:

Write what was performed in the experiment

Write which all features of HTML and JavaScript you used to perform the experiment

11. References:

- HTML 5 Black Book (Covers CSS3, JavaScript, XML, XHTML, AJAX, PHP, jQuery) 2Ed., DT Editorial Services
- https://www.w3schools.com/bootstrap4/
- https://www.tutorialspoint.com/bootstrap/index.htm
- https://www.youtube.com/watch?v=CMk8xB90RpU
- https://www.youtube.com/watch?v=9cKsq14Kfsw
- https://www.youtube.com/watch?v=T5WtuHaaVlc