ADVANCED WEB TECHNOLOGIES LABORATORY (LPEIT-102)

DEPARTMENT OF INFORMATION TECHNOLOGY

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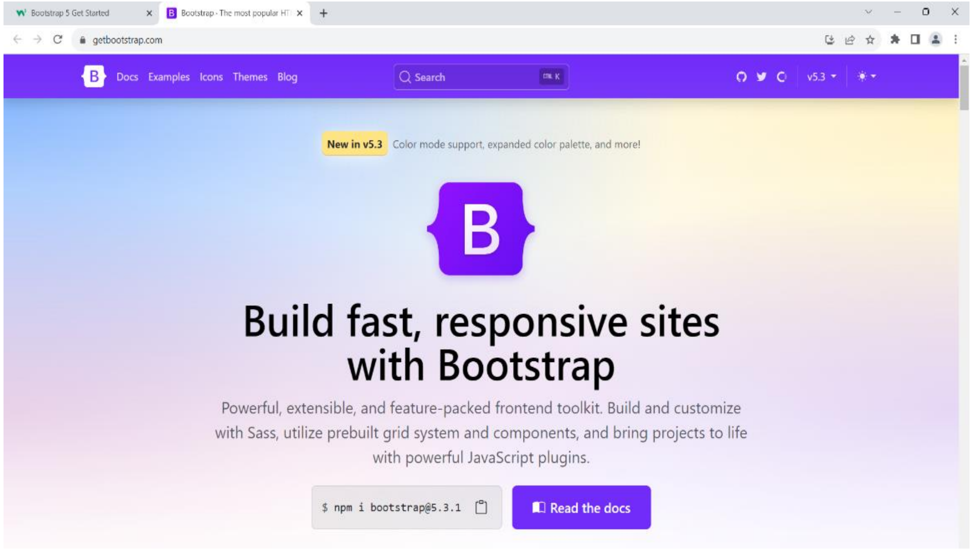
PRACTICAL - 1

Aim: To install and setup the HTML5 based Bootstrap framework and to deploy basic HTML elements using Bootstrap CSS.

- Bootstrap is a free front-end framework for faster and easier web development
- Bootstrap 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
- Bootstrap also gives you the ability to easily create responsive designs

INSTALLATION OF BOOTSTRAP : (Complied CSS and JS)

This method of installing bootstrap is also easy but it can work offline (doesn't require an internet connection) but it might not work for some browsers.

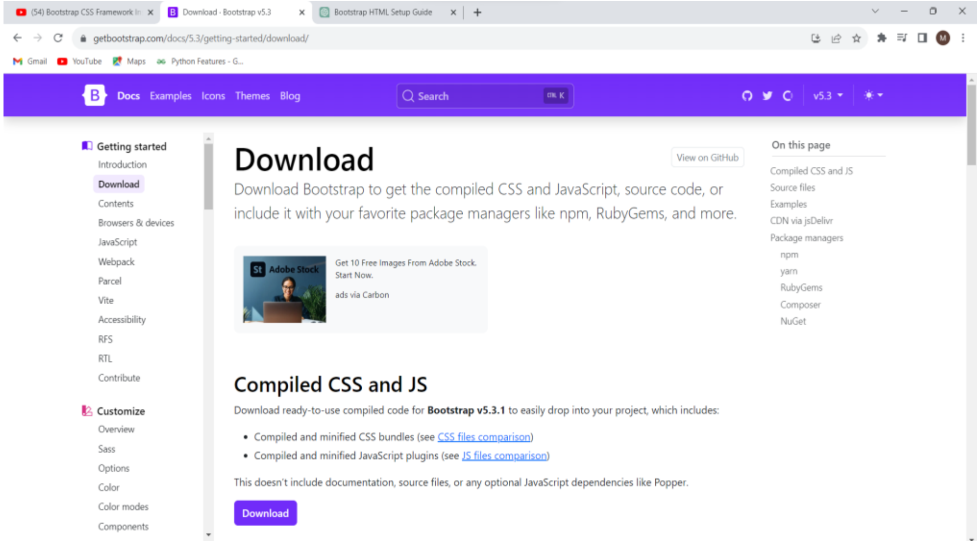


Build fast, responsive sites with Bootstrap

Powerful, extensible, and feature-packed frontend toolkit. Build and customize with Sass, utilize prebuilt grid system and components, and bring projects to life with powerful JavaScript plugins.

```
$ npm i bootstrap@5.3.1
```

Step 1: Goto getbootstrap and click Getting Started. Click on the Download Bootstrap button and download the compiled CSS and JS.



Download

Download Bootstrap to get the compiled CSS and JavaScript, source code, or include it with your favorite package managers like npm, RubyGems, and more.

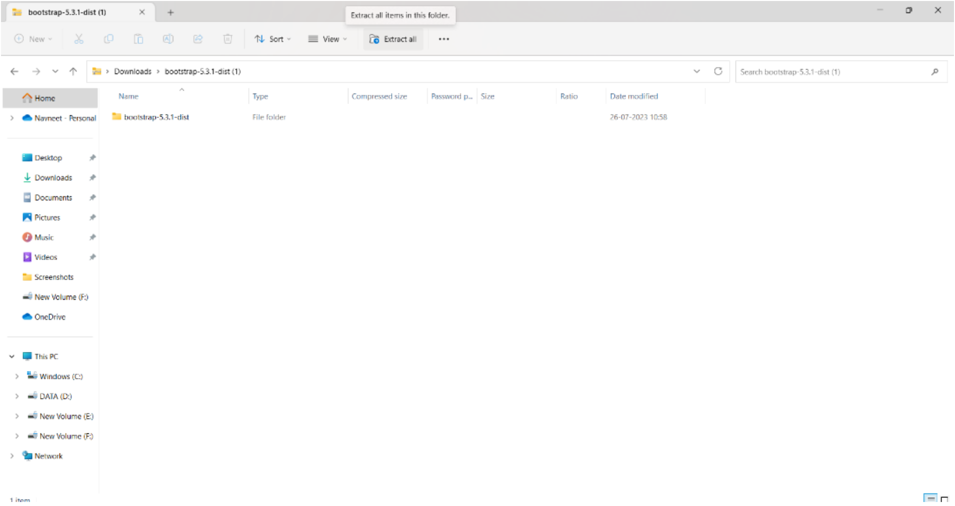
Compiled CSS and JS

Download ready-to-use compiled code for **Bootstrap v5.3.1** to easily drop into your project, which includes:

- Compiled and minified CSS bundles (see CSS files comparison)
- Compiled and minified JavaScript plugins (see JS files comparison)

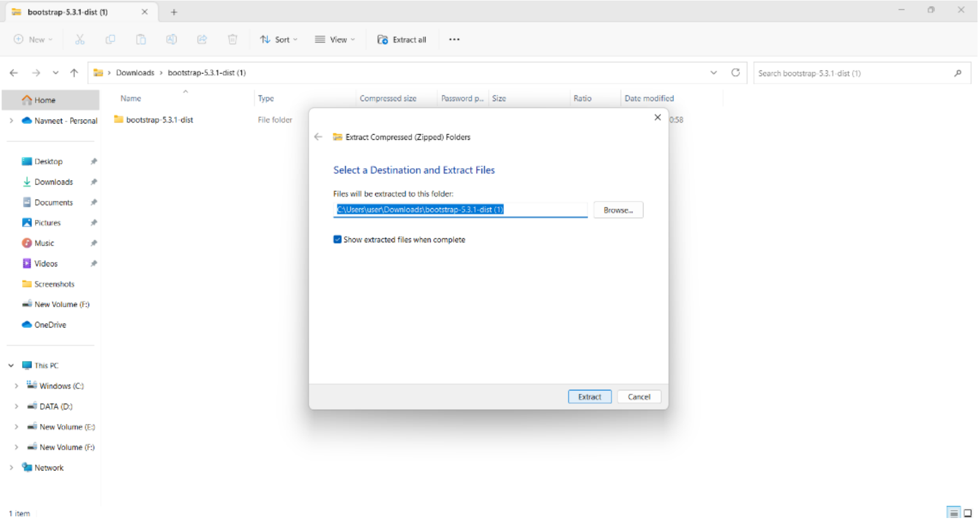
This doesn't include documentation, source files, or any optional JavaScript dependencies like Popper.

Step 2: Once the bootstrap is downloaded, it is in the zip folder and then click on the zip folder and then click on extract all.



Extract all items in this folder.

Name	Type	Compressed size	Password p...	Size	Ratio	Date modified
bootstrap-5.3.1-dist	File folder					26-07-2023 10:58



Extract Compressed (Zipped) Folders

Select a Destination and Extract Files

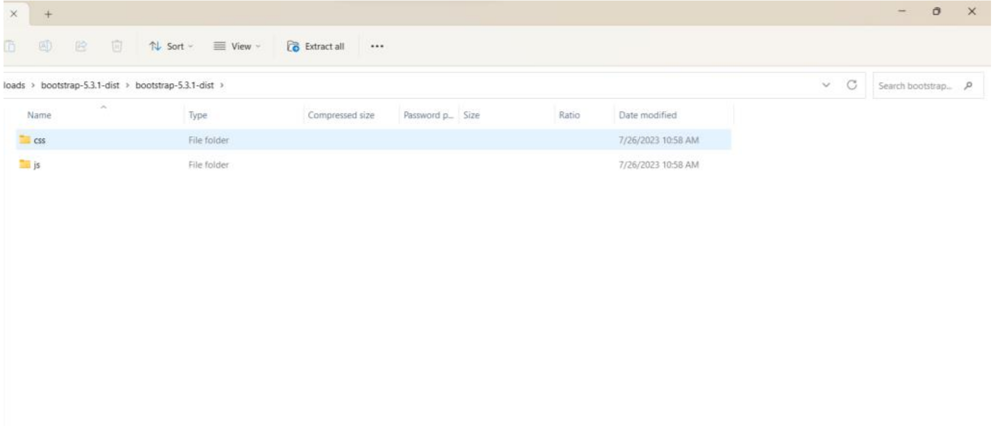
Files will be extracted to this folder:

C:\Users\user\Downloads\bootstrap-5.3.1-dist (1)

☑ Show extracted files when complete

Step 3: You would see 2 folders named CSS and JS. You can make your HTML file there and then you must paste these links in their respective sections.

<link rel=”stylesheet” type=”text/css” href=”css/bootstrap.min.css”> <script src=”js/bootstrap.min.js”></script> <script src= “https://ajax.googleapis.com/ajax/libs/jquery/2.1.3/jquery.min.js”> </script>



Name	Type	Compressed size	Password p...	Size	Ratio	Date modified
css	File folder					7/26/2023 10:58 AM
js	File folder					7/26/2023 10:58 AM

<u>USE A CONTENT DELIVERY NETWORK (CDN)</u>: Alternatively, you can include Bootstrap directly from a CDN in your HTML file. This is convenient for development and testing but may not be the best choice for production. For this example, let's include Bootstrap via a CDN:
<link rel = “stylesheet” href=“https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css”>

<u>BASIC HTML ELEMETS USING BOOTSTRAP :</u>

1. BOOTSTRAP CONTAINERS :

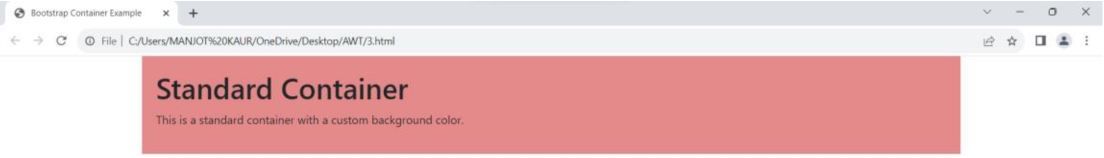
a) The .container class provides a responsive **fixed width container**

<u>CODE:</u>

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link                                                                rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    .custom-container {
      background-color: #e48a8a;
      padding: 20px;
    }
  </style>
  <title>Bootstrap Container Example</title>
</head>
```

```
<body>
  <div class="container custom-container">
    <h1>Standard Container</h1>
    <p>This is a standard container with a custom background color.</p>
  </div>
</body>
</html>
```

OUTPUT:



Bootstrap Container Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Standard Container

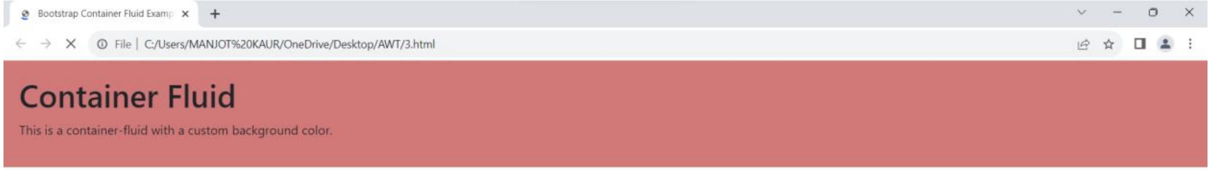
This is a standard container with a custom background color.

b) The .container-fluid class provides a **full width container**, spanning the entire width of the viewport.

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    .custom-container-fluid {
      background-color: #d17979; /* Your desired background color */
      padding: 20px;
    }
  </style>
  <title>Bootstrap Container Fluid Example</title>
</head>
<body>
  <div class="container-fluid custom-container-fluid">
    <h1>Container Fluid</h1>
    <p>This is a container-fluid with a custom background color.</p>
  </div>
</body>
</html>
```

OUTPUT:


Bootstrap Container Fluid Examp
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Container Fluid

This is a container-fluid with a custom background color.

2. **BOOTSTRAP GRID CLASS :** Bootstrap's grid system is built with flexbox and allows up to 12 columns across the page. The grid system is responsive, and the columns will re-arrange automatically depending on the screen size. Grid Classes :-

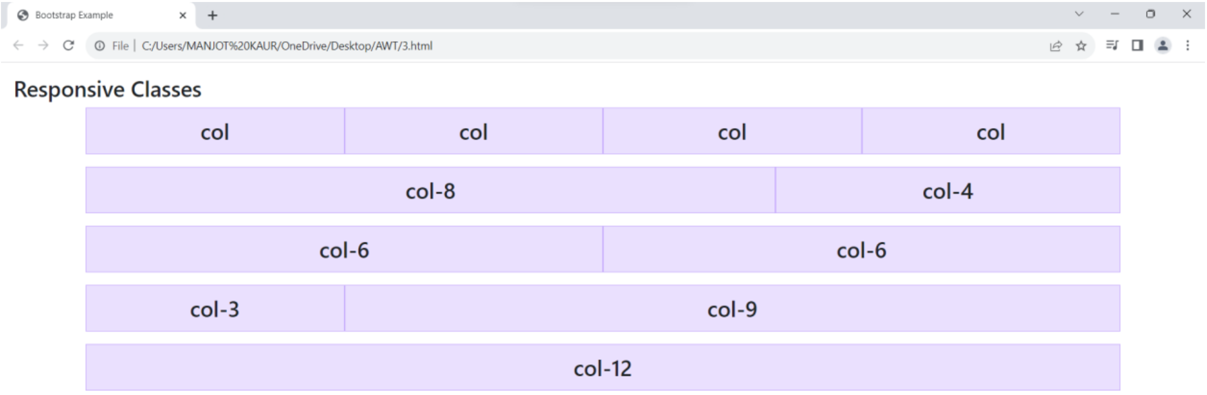
The Bootstrap 5 grid system has six classes:

- .col- (extra small devices - screen width less than 576px)
- .col-sm- (small devices - screen width equal to or greater than 576px)
- .col-md- (medium devices - screen width equal to or greater than 768px)
- .col-lg- (large devices - screen width equal to or greater than 992px)
- .col-xl- (xlarge devices - screen width equal to or greater than 1200px)
- .col-xxl- (xxlarge devices - screen width equal to or greater than 1400px)

CODE:

```
<!doctype html>
<html lang="en">
  <head>
    <meta charset="utf-8">
    <meta name="viewport" content="width=device-width, initial-scale=1">
    <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/css/bootstrap.min.css"
rel="stylesheet">
    <link href="https://getbootstrap.com/docs/5.3/assets/css/docs.css" rel="stylesheet">
    <title>Bootstrap Example</title>
    <script
src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.1/dist/js/bootstrap.bundle.min.js"></script>
  </head>
  <body class="p-3 m-0 border-0 bd-example m-0 border-0 bd-example-row">
    <h3> Responsive Classes <h3>
    <div class="container text-center">
      <div class="row">
        <div class="col">col</div>
        <div class="col">col</div>
        <div class="col">col</div>
        <div class="col">col</div>
      </div>
      <div class="row">
        <div class="col-8">col-8</div>
        <div class="col-4">col-4</div>
      </div>
      <div class="row">
      <div class="col-6">col-6</div>
      <div class="col-6">col-6</div>
    </div>
    <div class="row">
    <div class="col-3">col-3</div>
    <div class="col-9">col-9</div>
  </div>
  <div class="row">
  <div class="col-12">col-12</div>
</div>
    </div>
  </body>
</html>
```

OUTPUT:



Responsive Classes

col | col | col | col

col-8 | col-4

col-6 | col-6

col-3 | col-9

col-12

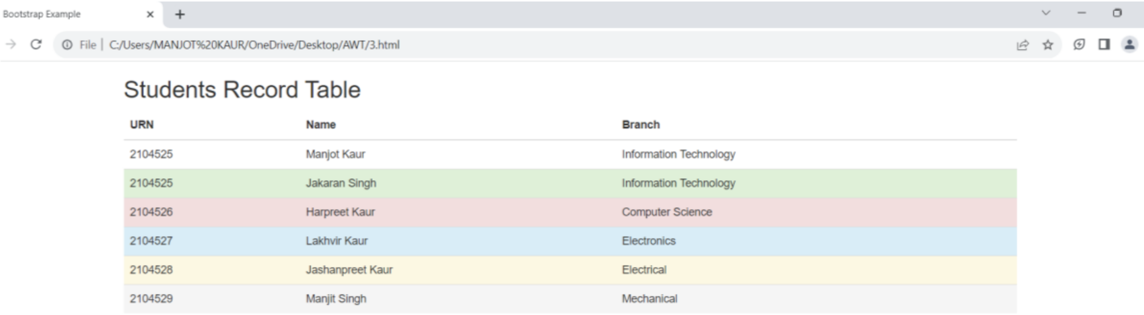
3. BOOTSTRAP TABLES:

In Bootstrap, a basic table is an HTML table that has been styled and enhanced using Bootstrap's CSS classes and, optionally, JavaScript functionality. Bootstrap provides a set of CSS classes to make it easy to create attractive and responsive tables for displaying data on web pages. The .table class adds basic styling to a table:

CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link rel="stylesheet"
href="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/css/bootstrap.min.css">
  <script src="https://ajax.googleapis.com/ajax/libs/jquery/3.6.4/jquery.min.js"></script>
  <script src="https://maxcdn.bootstrapcdn.com/bootstrap/3.4.1/js/bootstrap.min.js"></script>
</head>
<body>
<div class="container">
  <h2>Students Record Table</h2>
  <table class="table">
    <thead>
      <tr>
        <th>URN</th>
        <th>Name</th>
        <th>Branch</th>
      </tr>
    </thead>
    <tbody>
      <tr>
        <td>2104525</td>
        <td>Manjot Kaur</td>
        <td>Information Technology</td>
      </tr>
      <tr class="success">
        <td>2104525</td>
        <td>Jakaran Singh</td>
        <td>Information Technology</td>
      </tr>
      <tr class="danger">
        <td>2104526</td>
        <td>Harpreet Kaur</td>
        <td>Computer Science</td>
      </tr>
      <tr class="info">
        <td>2104527</td>
    <td>Lakhvir Kaur</td>
    <td>Electronics</td>
   </tr>
   <tr class="warning">
    <td>2104528</td>
    <td>Jashanpreet Kaur</td>
    <td>Electrical</td>
   </tr>
   <tr class="active">
    <td>2104529</td>
    <td>Manjit Singh</td>
    <td>Mechanical</td>
   </tr>
  </tbody>
 </table>
</div>
</body>
</html>
```

OUTPUT:



Students Record Table

URN	Name	Branch
2104525	Manjot Kaur	Information Technology
2104525	Jakaran Singh	Information Technology
2104526	Harpreet Kaur	Computer Science
2104527	Lakhvir Kaur	Electronics
2104528	Jashanpreet Kaur	Electrical
2104529	Manjit Singh	Mechanical

4. BOOTSTRAP FORMS:

HTML defines the structure and elements of web forms, CSS is used to style and layout those forms, and Bootstrap is a framework that streamlines form design by offering pre-built components and responsive design capabilities. Together, these technologies empower web developers to create attractive, functional, and user-friendly forms that enhance the overall user experience on websites.

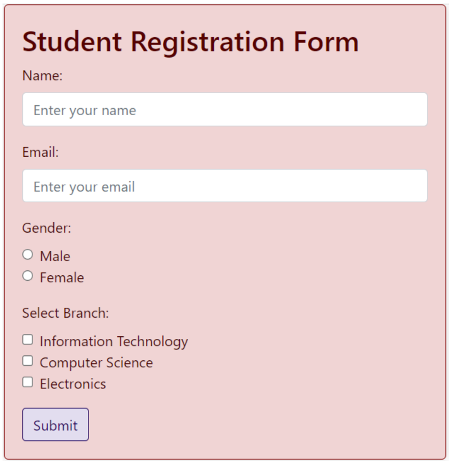
CODE:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
```

```
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Student Registration Form</title>
    <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
        .form-container {
            max-width: 500px;
            margin: 0 auto;
            padding: 20px;
            border: 1px solid #850c0c;
            border-radius: 5px;
            box-shadow: 0 0 10px rgba(71, 61, 61, 0.2);
            background-color: #f0d4d4; /* Light gray background color */
        }

        /* Text color for labels */
        .form-group label {
            color: #470303; /* Dark gray text color */
        }
        /* Text color for checkboxes and radio buttons */
        .form-check-label {
            color: #6ec280; /* Dark gray text color */
        }
        /* Background color for checkboxes and radio buttons */
        .form-check-input:checked + .form-check-label::before {
            background-color: #ce135e; /* Blue background color for checked items */
            border-color: #e48c8c; /* Blue border color for checked items */
        }

        /* Background color for the submit button */
        .btn-primary {
            background-color: #e2ddef; /* Blue background color for the button */
            border-color: #1d035b; /* Blue border color for the button */
            color:#1d035b; /* White text color for the button */
        }
        /* Hover effect for the submit button */
        .btn-primary:hover {
            background-color: #63b9a2; /* Darker blue background color on hover */
            border-color: #026b48; /* Darker blue border color on hover */
        }
    </style>
```

```
</head>
<body>
    <div class="container">
        <div class="form-container">
            <h2 style="color: #560101;">Student Registration Form</h2>
            <form>
                <div class="form-group">
                    <label for="name">Name:</label>
                    <input type="text" class="form-control" id="name" placeholder="Enter your name"
required>
                </div>
                <div class="form-group">
                    <label for="email">Email:</label>
                    <input type="email" class="form-control" id="email" placeholder="Enter your email"
required>
                </div>
                <div class="form-group">
                    <label for="gender">Gender:</label>
                    <div class="form-check">
                        <input class="form-check-input" type="radio" name="gender" id="male"
value="male" required>
                        <label class="form-check-label" for="male">Male</label>
                    </div>
                    <div class="form-check">
                        <input class="form-check-input" type="radio" name="gender" id="female"
value="female" required>
                        <label class="form-check-label" for="female">Female</label>
                    </div>
                </div>
                <div class="form-group">
                    <label for="courses">Select Branch:</label>
                    <div class="form-check">
                        <input class="form-check-input" type="checkbox" id="it" value="Information
Technology">
                        <label class="form-check-label" for="it">Information Technology</label>
                    </div>
                    <div class="form-check">
                        <input class="form-check-input" type="checkbox" id="computer science"
value="Computer Science">
                        <label class="form-check-label" for="computer science"> Computer Science</label>
                    </div>
                    <div class="form-check">
                        <input class="form-check-input" type="checkbox" id="electronics"
value="Electronics">
                        <label class="form-check-label" for="electronics">Electronics</label>
                    </div>
                </div>
                <button type="submit" class="btn btn-primary">Submit</button>
            </form>
        </div>
    </div>
</body>
</html>
```

OUTPUT:



Student Registration Form

Name:

Enter your name

Email:

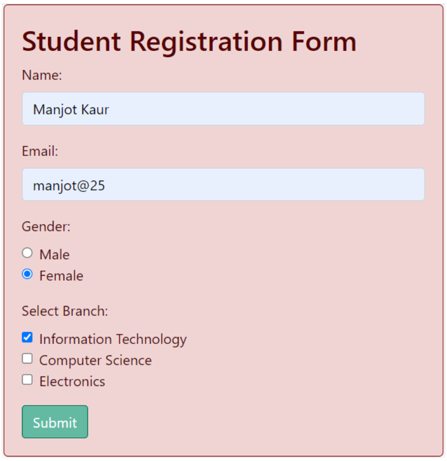
Enter your email

Gender:

○ Male
○ Female

Select Branch:

□ Information Technology
□ Computer Science
□ Electronics



Student Registration Form

Name:

Manjot Kaur

Email:

manjot@25

Gender:

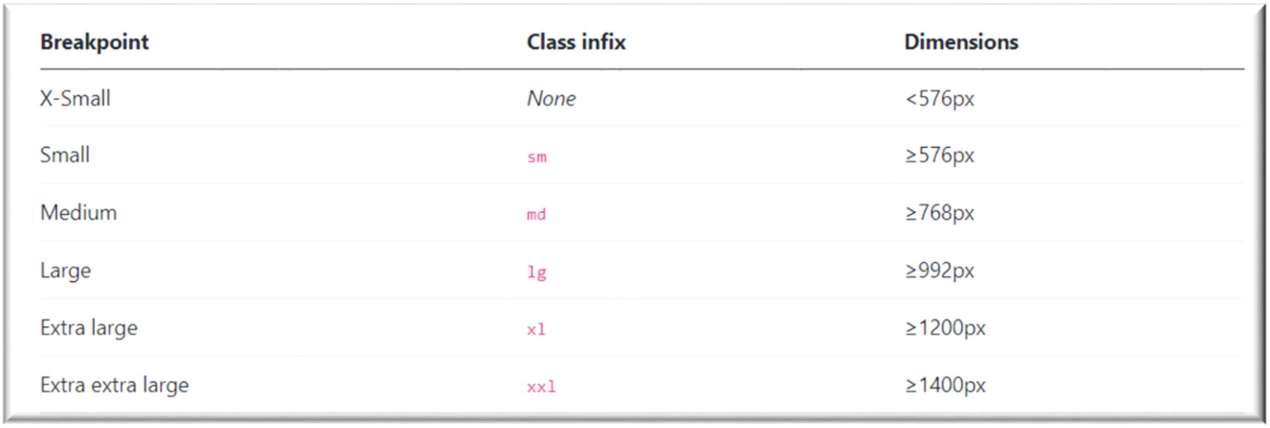
○ Male
● Female

Select Branch:

☑ Information Technology
□ Computer Science
□ Electronics

5. BOOTSTRAP BREAKPOINTS:

Bootstrap includes six default breakpoints, sometimes referred to as *grid tiers*, for building responsively. These breakpoints can be customized if you’re using our source Sass files.



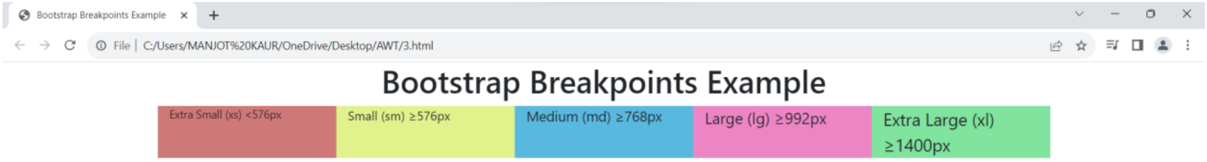
Breakpoint	Class infix	Dimensions
X-Small	*None*	<576px
Small	`sm`	≥576px
Medium	`md`	≥768px
Large	`lg`	≥992px
Extra large	`xl`	≥1200px
Extra extra large	`xxl`	≥1400px

CODE:

```
<!DOCTYPE html>
```

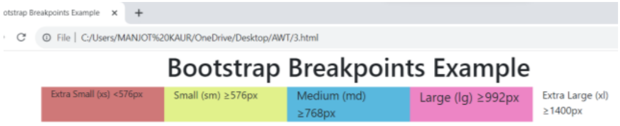
```
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Bootstrap Breakpoints Example</title>
    <!-- Link to Bootstrap CSS -->
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
    <style>
        /* Custom CSS for different breakpoints */
        /* Extra Small (xs) */
        .bg-xs {
            background-color: #cf7878;
        }
        .text-xs {
            font-size: 14px;
        }

        /* Small (sm) */
        @media (min-width: 576px) {
            .bg-sm {
                background-color: #e1f18b;
            }
            .text-sm {
                font-size: 16px;
            }
        }
        /* Medium (md) */
        @media (min-width: 768px) {
            .bg-md {
                background-color: #59b8de;
            }
            .text-md {
                font-size: 18px;
            }
        }
        /* Large (lg) */
        @media (min-width: 992px) {
            .bg-lg {
                background-color: #ed85c5;
            }
            .text-lg {
                font-size: 20px;
            }
        }
        /* Extra Large (xl) */
        @media (min-width: 1200px) {
            .bg-xl {
                background-color: #80e39e;
            }
            .text-xl {
                font-size: 22px;
            }
        }
    </style>
</head>
<body>
    <div class="container">
        <h1 class="text-center">Bootstrap Breakpoints Example</h1>
        <div class="row">
            <div class="col bg-xs text-xs">
                Extra Small (xs) <576px
            </div>
            <div class="col bg-sm text-sm">
                Small (sm) ≥576px
            </div>
            <div class="col bg-md text-md">
                Medium (md) ≥768px
            </div>
            <div class="col bg-lg text-lg">
                Large (lg)    ≥992px
            </div>
            <div class="col bg-xl text-xl">
                Extra Large (xl) ≥1400px
            </div>
        </div>
    </div>
</body>
</html>
```

OUTPUTS:


Bootstrap Breakpoints Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

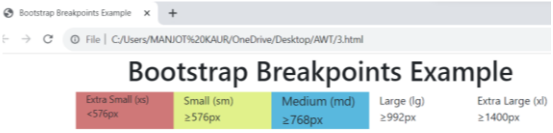
Bootstrap Breakpoints Example

Extra Small (xs) <576px	Small (sm) ≥576px	Medium (md) ≥768px	Large (lg) ≥992px	Extra Large (xl) ≥1400px


otstrap Breakpoints Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Breakpoints Example

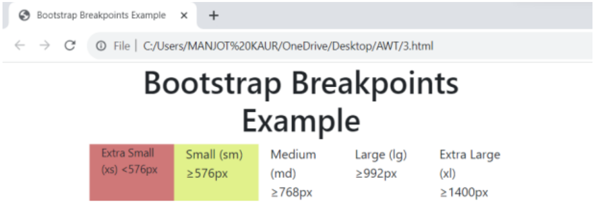
Extra Small (xs) <576px	Small (sm) ≥576px	Medium (md) ≥768px	Large (lg) ≥992px	Extra Large (xl) ≥1400px


Bootstrap Breakpoints Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Breakpoints Example

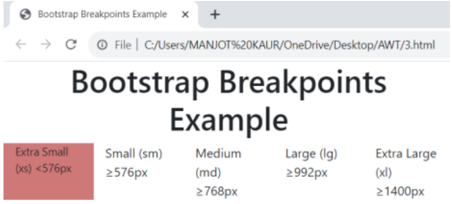
Extra Small (xs) <576px	Small (sm) ≥576px	Medium (md) ≥768px	Large (lg) ≥992px	Extra Large (xl) ≥1400px

---


Bootstrap Breakpoints Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Breakpoints Example

Extra Small (xs) <576px	Small (sm) ≥576px	Medium (md) ≥768px	Large (lg) ≥992px	Extra Large (xl) ≥1400px


Bootstrap Breakpoints Example
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Breakpoints Example

Extra Small (xs) <576px	Small (sm) ≥576px	Medium (md) ≥768px	Large (lg) ≥992px	Extra Large (xl) ≥1400px

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PRACTICAL – 2

Aim: To understand and deploy the multicolumn grid layout of Bootstrap.

Bootstrap provides a multicolumn grid layout that allows you to create responsive and flexible layouts. The grid system consists of a series of containers, rows, and columns. The containers are used to center and horizontally pad the content, while the rows create vertical gutters between the columns. The columns are the building blocks of the grid system and can be customized to have different sizes and offsets.

To use the multicolumn grid layout, you first need to create a container element. This element will hold the columns of your grid. The container element can be any element, but it is typically a `<div>` element.

Once you have created a container element, you can start adding columns to it. Columns are created using the `.col` class.

CODE:

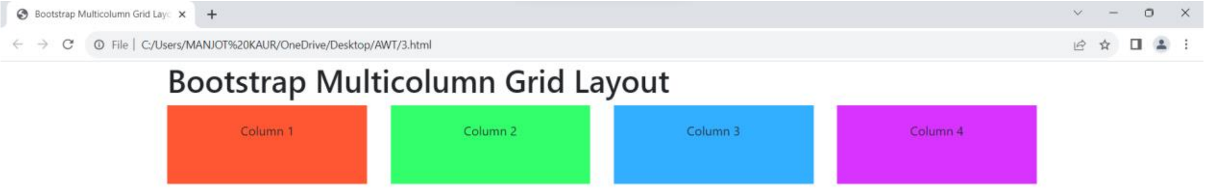
```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Bootstrap Multicolumn Grid Layout</title>
  <!-- Include Bootstrap CSS -->
  <link rel="stylesheet" href="https://maxcdn.bootstrapcdn.com/bootstrap/4.5.2/css/bootstrap.min.css">
  <style>
    /* Custom CSS for colored boxes */
    .colored-box {
      min-height: 100px;
      text-align: center;
      padding: 20px;
      margin-bottom: 20px;
    }
    .red-bg { background-color: #FF5733; }
    .green-bg { background-color: #33FF6D; }
    .blue-bg { background-color: #33AFFF; }
    .purple-bg { background-color: #D933FF; }
  </style>
</head>
<body>

<div class="container">
  <h1>Bootstrap Multicolumn Grid Layout</h1>
  <div class="row">
    <!-- Large screens (lg) - Four columns -->
    <div class="col-lg-3 col-md-6">
      <div class="colored-box red-bg">
        Column 1
      </div>
    </div>
    <div class="col-lg-3 col-md-6">
      <div class="colored-box green-bg">
```

```
        Column 2
      </div>
    </div>
    <div class="col-lg-3 col-md-6">
      <div class="colored-box blue-bg">
        Column 3
      </div>
    </div>
    <div class="col-lg-3 col-md-6">
      <div class="colored-box purple-bg">
        Column 4
      </div>
    </div>
  </div>
</div>
</body>
</html>
```

In above code example:

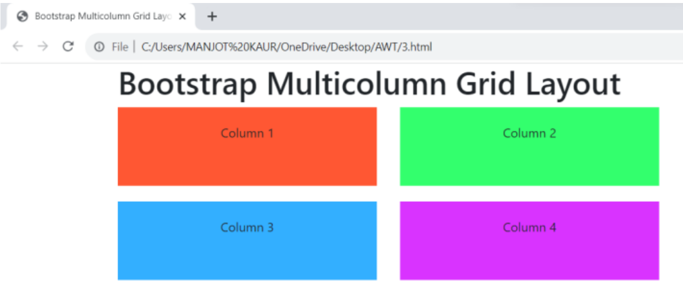
- We've added custom CSS classes (e.g., colored-box, red-bg, green-bg, etc.) to style the colored boxes within the columns.
- The columns are created using Bootstrap's grid system with classes like col-lg-3 (for large screens) and col-md-6 (for medium screens).
- As the screen size changes, you'll notice that the layout adjusts to display the appropriate number of columns, showcasing responsiveness.

OUTPUT:


Bootstrap Multicolumn Grid Lay
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Multicolumn Grid Layout

Column 1 Column 2 Column 3 Column 4


Bootstrap Multicolumn Grid Layo
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

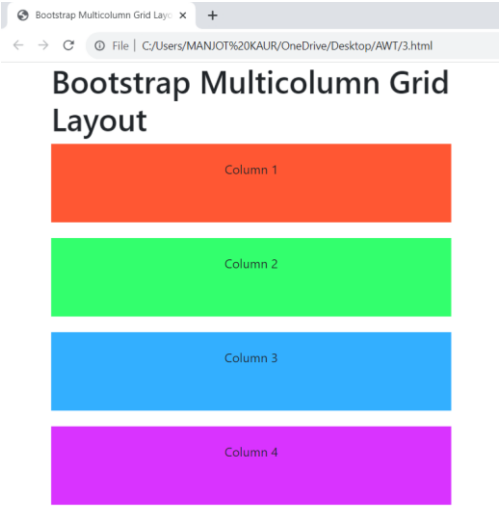
Bootstrap Multicolumn Grid Layout

Column 1

Column 2

Column 3

Column 4


Bootstrap Multicolumn Grid Layo
File | C:/Users/MANJOT%20KAUR/OneDrive/Desktop/AWT/3.html

Bootstrap Multicolumn Grid Layout

Column 1

Column 2

Column 3

Column 4

PRACTICAL – 3

Aim : To deploy different types of buttons, progress bars, modals and navigation bars using Bootstrap.

Bootstrap is a popular front-end framework that provides a set of pre-designed components like buttons, progress bars, modals, and navigation bars. These components can be easily integrated into your web projects to create a consistent and responsive user interface. I'll provide examples of how to deploy each of these components using Bootstrap.

Buttons:

Buttons are the components provided to create various buttons. Bootstrap 5 includes several predefined button styles, each serving its own purpose.

Syntax:

```
<button class="badge bg-type"> Button Text <button>
```

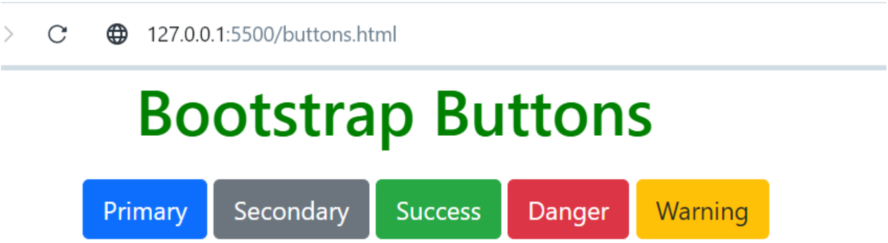
Types: Following are the types of buttons available in Bootstrap 5:

- btn-primary
- btn-secondary
- btn-success
- btn-danger
- btn-warning

```
    <!DOCTYPE html>
    <html>
    <head>
    <title> Bootstrap  Buttons </title>
    <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/5.0.0-
    alpha1/css/bootstrap.min.css" integrity="sha384-
    r4NyP46KrjDleawBgD5tp8Y7UzmLA05oM1iAEQ17CSuDqnUK2+k9luXQOfXJCJ4I"
    crossorigin="anonymous">
<scriptsrc="https://cdn.jsdelivr.net/npm/popper.js@1.16.0/dist/umd/popper.min.jscrossorigin="anonymo
us">
    </script>
    </head>
    <body>
    <div style="text-align: center;width: 600px;">
    <h1 style="color: green;">
    Bootstrap Buttons
    </h1>
    </div>
    <div style="width: 600px; height: 200px;
    margin:20px;text-align: center;">
```

```
<button type="button" class="btn btn-primary">
Primary
</button>
<button type="button" class="btn btn-secondary">
Secondary
</button>
<button type="button" class="btn btn-success">
Success
</button>
<button type="button" class="btn btn-danger">
Danger
</button>
<button type="button" class="btn btn-warning">
Warning
</button>
</div>
</body>
</html>
```

OUTPUT:



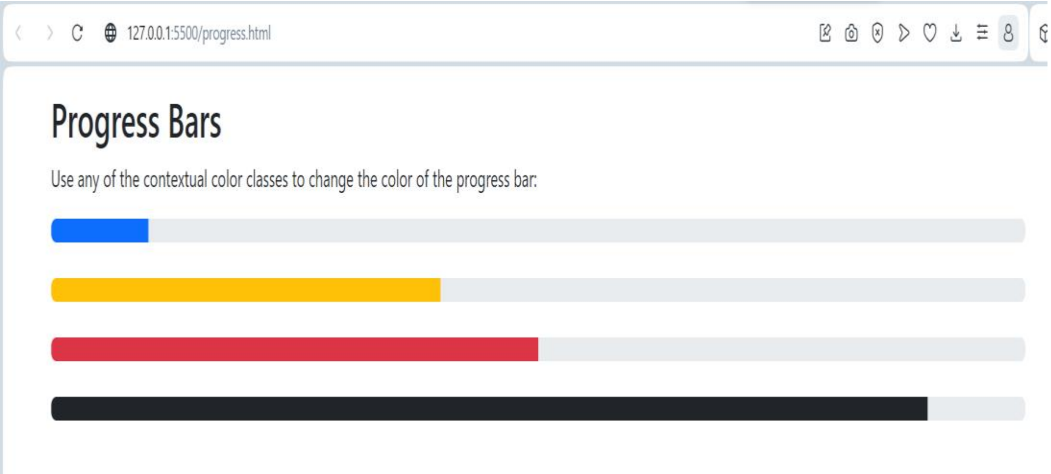
Progress bar:

A progress bar can be used to show how far a user is in a process. To create a default progress bar, add a .progress class to a container element and add the .progress-bar class to its child element. Use the CSS width property to set the width of the progress bar:

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
```

```
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container mt-3">
<h2> Progress Bars</h2>
<p>Use any of the contextual color classes to change the color of the progress bar:</p>

<!-- Blue -->
<div class="progress">
<div class="progress-bar" style="width:10%"></div>
</div><br>

<!-- Orange -->
<div class="progress">
<div class="progress-bar bg-warning" style="width:40%"></div>
</div><br>

<!-- Red -->
<div class="progress">
<div class="progress-bar bg-danger" style="width:50%"></div>
</div><br>
<!-- Dark Grey -->
<div class="progress">
<div class="progress-bar bg-dark" style="width:90%"></div>
</div>
</div>
</body>
</html>
```

OUTPUT:



Progress Bars

Use any of the contextual color classes to change the color of the progress bar:

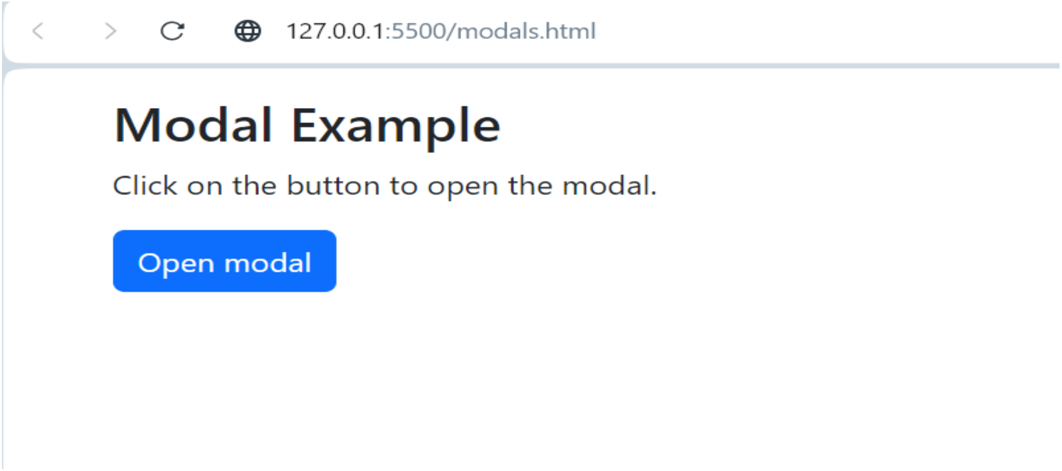
Modals in bootstrap 5 :

The Modal component is a dialog box/popup window that is displayed on top of the current page.

```
<!DOCTYPE html>
<html lang="en">
<head>
<title>Bootstrap Example</title>
<meta charset="utf-8">
<meta name="viewport" content="width=device-width, initial-scale=1">
<link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css"
rel="stylesheet">
<script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>

<div class="container mt-3">
<h3>Modal Example</h3>
<p>Click on the button to open the modal.</p>
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-
target="#myModal">
Open modal
</button>
</div>

<!-- The Modal -->
<div class="modal" id="myModal">
<div class="modal-dialog">
<div class="modal-content">
```

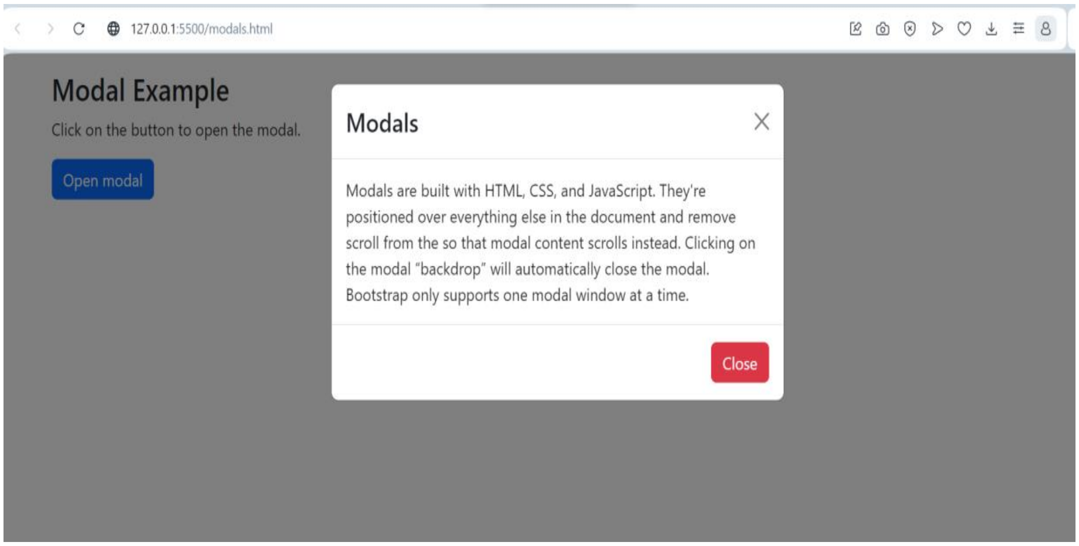
```
<!-- Modal Header -->
<div class="modal-header">
<h4 class="modal-title">Modals</h4>
<button type="button" class="btn-close" data-bs-dismiss="modal"></button>
</div>

<!-- Modal body -->
<div class="modal-body">
Modals are built with HTML, CSS, and JavaScript. They're positioned over everything else in the
document and remove scroll from the <body> so that modal content scrolls instead. Clicking on the
modal “backdrop” will automatically close the modal. Bootstrap only supports one modal window at
a time.
</div>

<!-- Modal footer -->
<div class="modal-footer">
<button type="button" class="btn btn-danger" data-bs-dismiss="modal">Close</button>
</div>

</div>
</div>
</div>
</body>
</html>
```

OUTPUT:



Modal Example

Click on the button to open the modal.



Modal Example

Click on the button to open the modal.

Modals

Modals are built with HTML, CSS, and JavaScript. They're positioned over everything else in the document and remove scroll from the so that modal content scrolls instead. Clicking on the modal "backdrop" will automatically close the modal. Bootstrap only supports one modal window at a time.

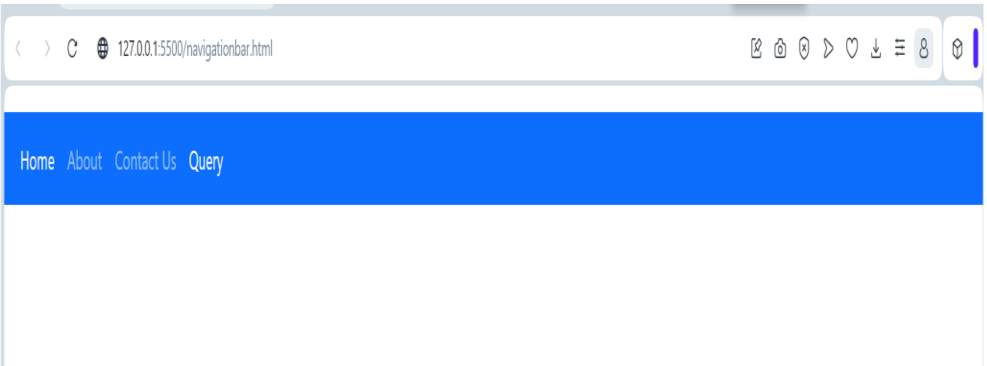
<u>Navigation bar :</u>

A navigation bar is a navigation header that is placed at the top of the page.With Bootstrap, a navigation bar can extend or collapse, depending on the screen size.A standard navigation bar is created with the .navbar class, followed by a responsive collapsing class: .navbar-expand-xxl|xl|lg|md|sm (stacks the navbar vertically on xxlarge, extra large, large, medium or small screens).

```
<!DOCTYPE html>
<html lang="en">
<head>
  <title>Bootstrap Example</title>
  <meta charset="utf-8">
  <meta name="viewport" content="width=device-width, initial-scale=1">
  <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/css/bootstrap.min.css" rel="stylesheet">
  <script src="https://cdn.jsdelivr.net/npm/bootstrap@5.3.2/dist/js/bootstrap.bundle.min.js"></script>
</head>
<body>
<div class="container mt-3">
  </div>
<nav class="navbar navbar-expand-sm bg-primary navbar-dark">
  <div class="container-fluid">
    <ul class="navbar-nav">
      <li class="nav-item">
        <a class="nav-link active" href="#">Home </a>
       </li>
      <li class="nav-item">
        <a class="nav-link" href="#"> About  </a>
      </li>
      <li class="nav-item">
```

```
        <a class="nav-link" href="#">Contact Us </a>
      </li>
      <li class="nav-item">
        <a class="nav-link active" href="#"> Query</a>
      </li>
    </ul>
  </div>
</nav>
  </div>
</nav>

</body>
</html>
```

OUTPUT:



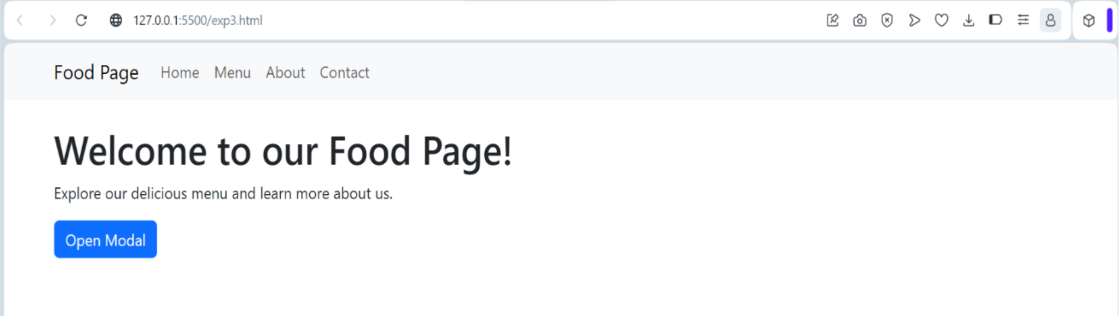
EXAMPLE:

```
 <!DOCTYPE html>
  <html>
  <head>
  <title>Food Web Page</title>
  <link rel="stylesheet"
  href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css">
  </head>
  <body>
  <nav class="navbar navbar-expand-lg navbar-light bg-light">
  <div class="container">
  <a class="navbar-brand" href="#">Food Page</a>
  <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">
<li class="nav-item">
<a class="nav-link" href="#">Home</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Menu</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">About</a>
</li>
<li class="nav-item">
<a class="nav-link" href="#">Contact</a>
</li>
</ul>
</div>
</div>
</nav>
<div class="container mt-4">
<h1>Welcome to our Food Page!</h1>
<p>Explore our delicious menu and learn more about us.</p>
<button type="button" class="btn btn-primary" data-bs-toggle="modal" data-bs-
target="#exampleModal">
Open Modal
</button>
</div>
<!-- The Modal -->
<div class="modal" id="myModal">
<div class="modal-dialog">
<div class="modal-content">
<!-- Modal Header -->
<div class="modal-header">
<h4 class="modal-title">Modals</h4>
<button type="button" class="btn-close" data-bs-dismiss="modal"></button>
</div>
<!-- Modal body -->
<div class="modal-body">
Get your favourite food with offer pack.
</div>
<!-- Modal footer -->
```

```
<div class="modal-footer">
<button type="button" class="btn btn-danger" data-bs-dismiss="modal">Close</button>
</div>
</div>
</div>
</div>
 </body>
</html>
```

OUTPUT:



Welcome to our Food Page!

Explore our delicious menu and learn more about us.

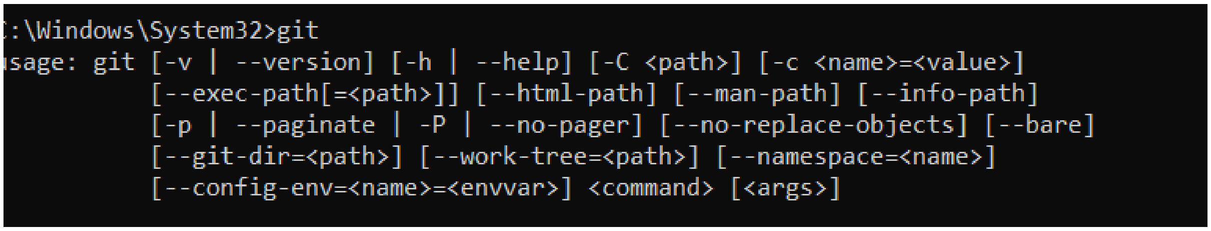
PRACTICAL – 4

Aim: To create and setup the Git repository on Bitbucket or github using SSH.

Step 1: Install Git

Download and install Git from the official website: https://git-scm.com/download/win

After writing command ***git*** this is shown on cmd.



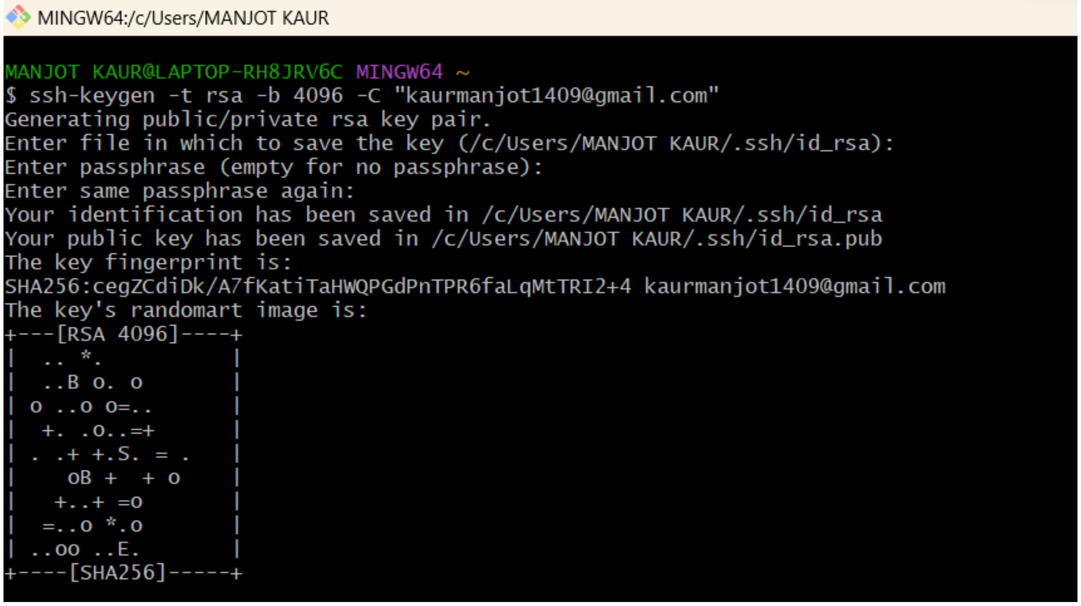
```
:\Windows\System32>git
sage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]
          [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]
          [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--bare]
          [--git-dir=<path>] [--work-tree=<path>] [--namespace=<name>]
          [--config-env=<name>=<envvar>] <command> [<args>]
```

Step 2: Configure Git

Set your Git username and email by running these commands in your terminal:git config --global user.name "Manjot-Kaur-14"
git config --global user.email “kaurmanjot1409@gmail.com”

Step 3: Generate SSH Key

Generate an SSH key to securely connect to GitHub: ssh-keygen -t ed25519 -C kaurmanjot1409@gmail.com

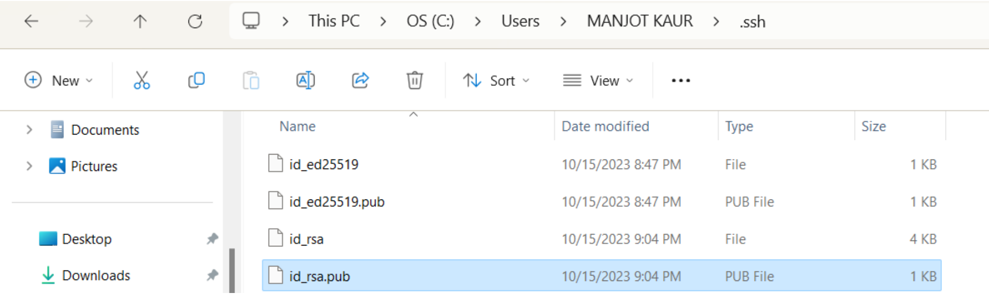


MINGW64:/c/Users/MANJOT KAUR

```
MANJOT KAUR@LAPTOP-RH8JRV6C MINGW64 ~
$ ssh-keygen -t rsa -b 4096 -C "kaurmanjot1409@gmail.com"
Generating public/private rsa key pair.
Enter file in which to save the key (/c/Users/MANJOT KAUR/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /c/Users/MANJOT KAUR/.ssh/id_rsa
Your public key has been saved in /c/Users/MANJOT KAUR/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:cegZCdiDk/A7fKatiTaHWQPGdPnTPR6faLqMtTRI2+4 kaurmanjot1409@gmail.com
The key's randomart image is:
+---[RSA 4096]----+
|   .. *.         |
|   ..B o. o      |
| o ..o o=..      |
|  +. .o..=+      |
| . .+ +.S. = .   |
|     oB +   + o  |
|    +..+ =o      |
|   =..o *.o      |
| ..oo ..E.       |
+----[SHA256]-----+
```

This is the place where ***SSH Key is generated***

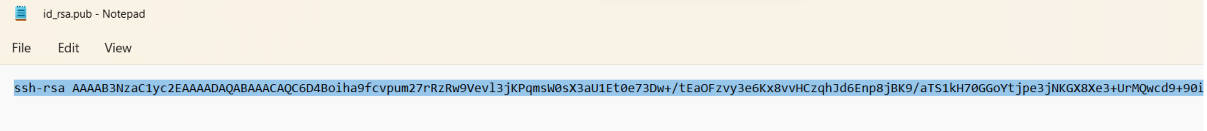
C:\Users\manjot\.ssh



Name	Date modified	Type	Size
id_ed25519	10/15/2023 8:47 PM	File	1 KB
id_ed25519.pub	10/15/2023 8:47 PM	PUB File	1 KB
id_rsa	10/15/2023 9:04 PM	File	4 KB
id_rsa.pub	10/15/2023 9:04 PM	PUB File	1 KB

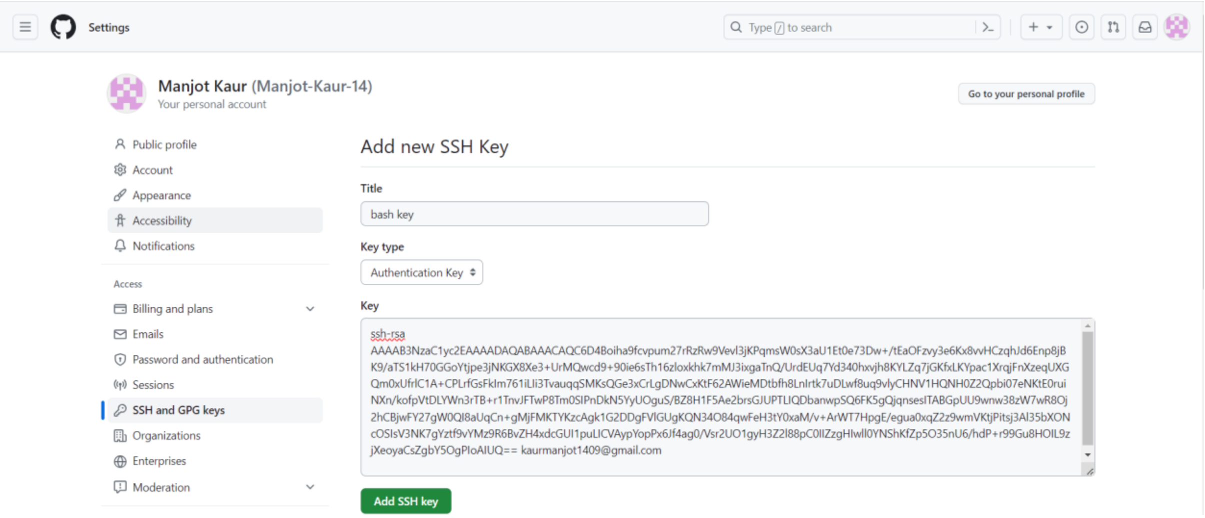
Step 5: Add SSH Key to GitHub

Copy your public SSH key to your clipboard:
cat ~/.ssh/id_rsa.pub



```
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAACAQC6D4Boiha9fcvpum27rRzRw9Vevl3jKPqmsW0sX3aU1Et0e73Dw+/tEaOFzvy3e6Kx8vvHCzqhJd6Enp8jBK9/aTS1kH70GGoYtjpe3jNKGX8Xe3+UrMQwcd9+90i
```

Go to GitHub account settings, under "SSH and GPG keys," click "New SSH key," and paste public key there.



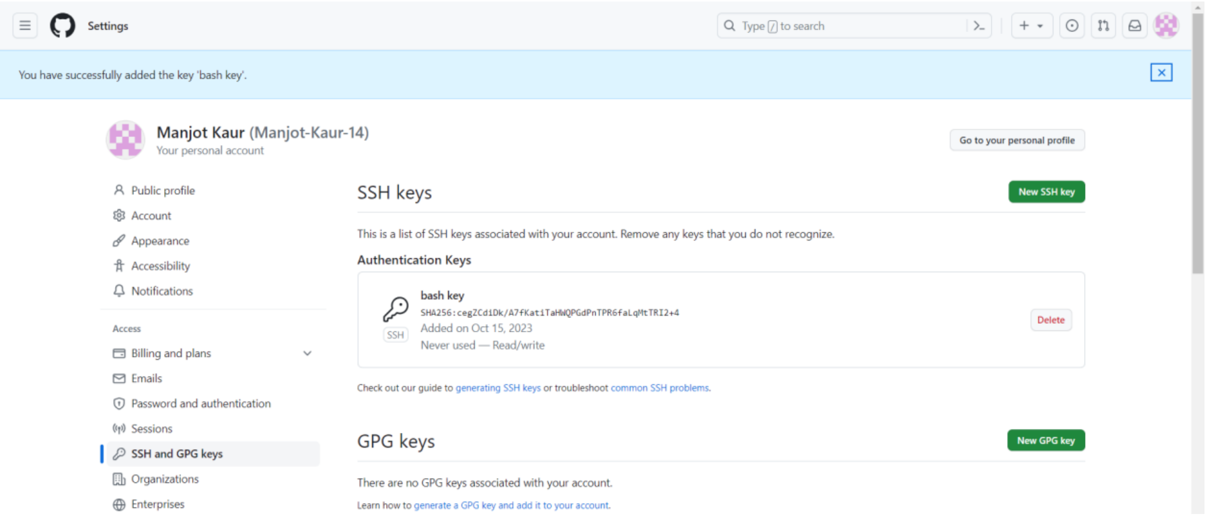
Add new SSH Key

Title: bash key

Key type: Authentication Key

Key:

```
ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAACAQC6D4Boiha9fcvpum27rRzRw9Vevl3jKPqmsW0sX3aU1Et0e73Dw+/tEaOFzvy3e6Kx8vvHCzqhJd6Enp8jB
K9/aTS1kH70GGoYtjpe3jNKGX8Xe3+UrMQwcd9+90ie6sTh16zloxkhk7mMJ3ixgaTnQ/UrdEUq7Yd340hxvjh8KYLZq7jGKfxLKYpac1XrqjFnXzeqUXG
Qm0xUfrlC1A+CPLrfGsFklm761iLli3TvauqqSMKsQGe3xCrLgDNwCxKtF62AWieMDtbfh8LnIrtk7uDLwf8uq9vlyCHNV1HQNH0Z2Qpbi07eNKtE0rui
NXn/kofpVtDLYWn3rTB+r1TnvJFTwP8Tm0SIPnDkN5YyUOguS/BZ8H1F5Ae2brsGJUPTLIQDbanwpSQ6FK5gQjqnsesITABGpUU9wnw38zW7wR8Oj
2hCBjwFY27gW0QI8aUqCn+gMjFMKTYKzcAgk1G2DDgFVlGUgKQN34O84qwFeH3tY0xaM/v+ArWT7HpgE/egua0xqZ2z9wmVKtjPitsj3Al35bXON
cOSIsV3NK7gYztf9vYMz9R6BvZH4xdcGUI1puLICVAypYopPx6Jf4ag0/Vsr2UO1gyH3Z2l88pC0lIZzgHIwll0YNShKfZp5O35nU6/hdP+r99Gu8HOIL9z
jXeoyaCsZgbY5OgPIoAIUQ== kaurmanjot1409@gmail.com
```



You have successfully added the key 'bash key'.

SSH keys

This is a list of SSH keys associated with your account. Remove any keys that you do not recognize.

Authentication Keys

bash key
SHA256:cegZCdiDk/A7fKatiTaHWQPGdPnTPR6faLqMtTRI2+4
Added on Oct 15, 2023
Never used — Read/write

Check out our guide to generating SSH keys or troubleshoot common SSH problems.

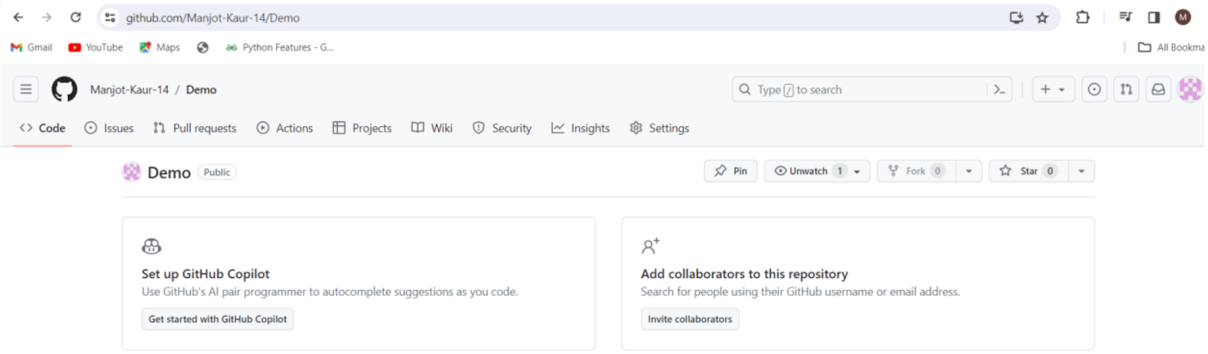
GPG keys

There are no GPG keys associated with your account.

Learn how to generate a GPG key and add it to your account.

Step 6: Create a New Repository on GitHub

On GitHub, click the "+" icon in the top right corner and select "New repository." Fill in the repository name, description, and other options.



Set up GitHub Copilot
Use GitHub's AI pair programmer to autocomplete suggestions as you code.

Add collaborators to this repository
Search for people using their GitHub username or email address.

This is the SSH Key link of repository “Demo”.

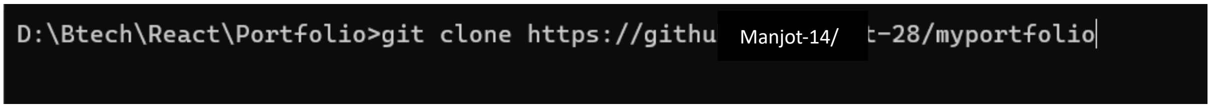
PRACTICAL – 5

Aim: - To perform push, clone and patch operation to Git repository.

CLONE:

git clone <repository-url>

git clone https://github.com/Manjot-Kaur-14/myportfolio

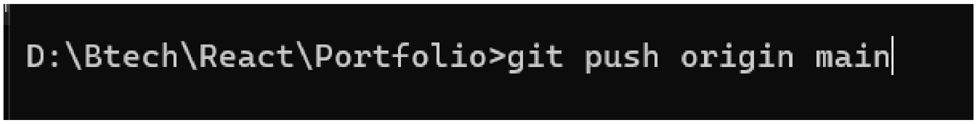


```
D:\Btech\React\Portfolio>git clone https://githu Manjot-14/ t-28/myportfolio
```

PUSH:

git push <remote-name> <branch-name>

git push origin main

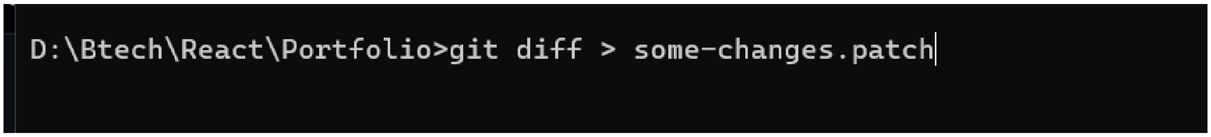


```
D:\Btech\React\Portfolio>git push origin main
```

PATCH:

1. Generate the patch:

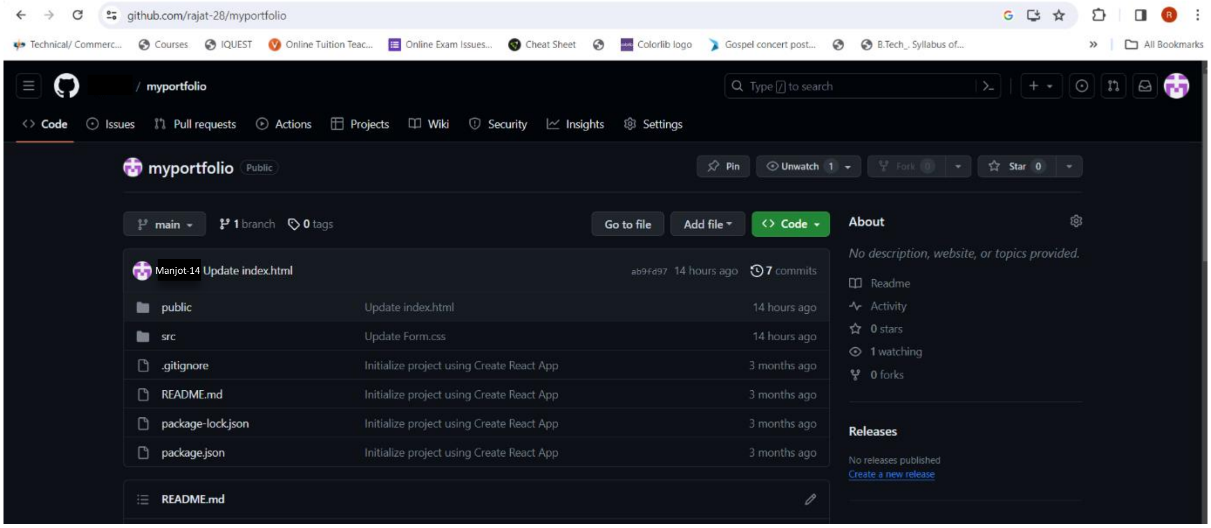
git diff > some-changes.patch



```
D:\Btech\React\Portfolio>git diff > some-changes.patch
```

2. Apply the diff:

git apply /path/to/some-changes.patch



github.com/rajat-28/myportfolio

[redacted] / myportfolio

myportfolio Public

main 1 branch 0 tags

Manjot-14 Update index.html ab9fd97 14 hours ago 7 commits

public	Update index.html	14 hours ago
src	Update Form.css	14 hours ago
.gitignore	Initialize project using Create React App	3 months ago
README.md	Initialize project using Create React App	3 months ago
package-lock.json	Initialize project using Create React App	3 months ago
package.json	Initialize project using Create React App	3 months ago

README.md

About

No description, website, or topics provided.

Readme

Activity

0 stars

1 watching

0 forks

Releases

No releases published

Create a new release

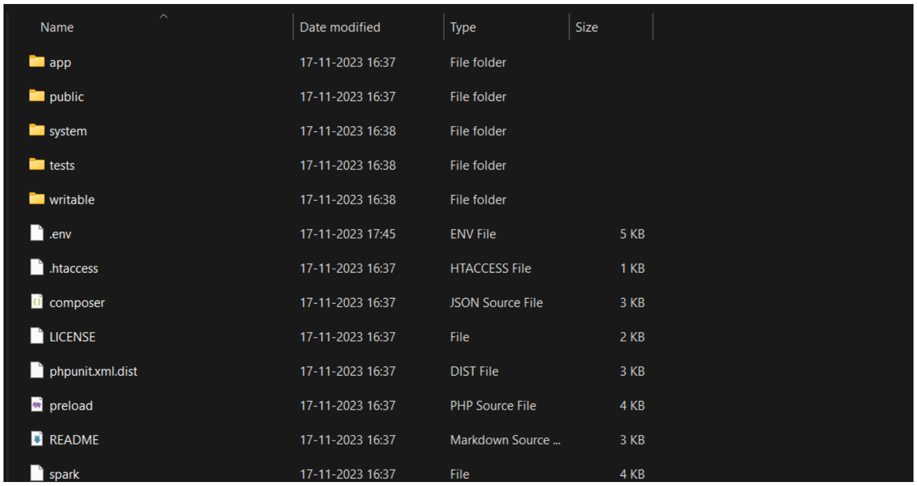
Experiment Number 6: To install and setup the CodeIgniter Framework and to understand its MVC architecture.

Installation with Composer:

In terminal go to the root folder of project and type the command

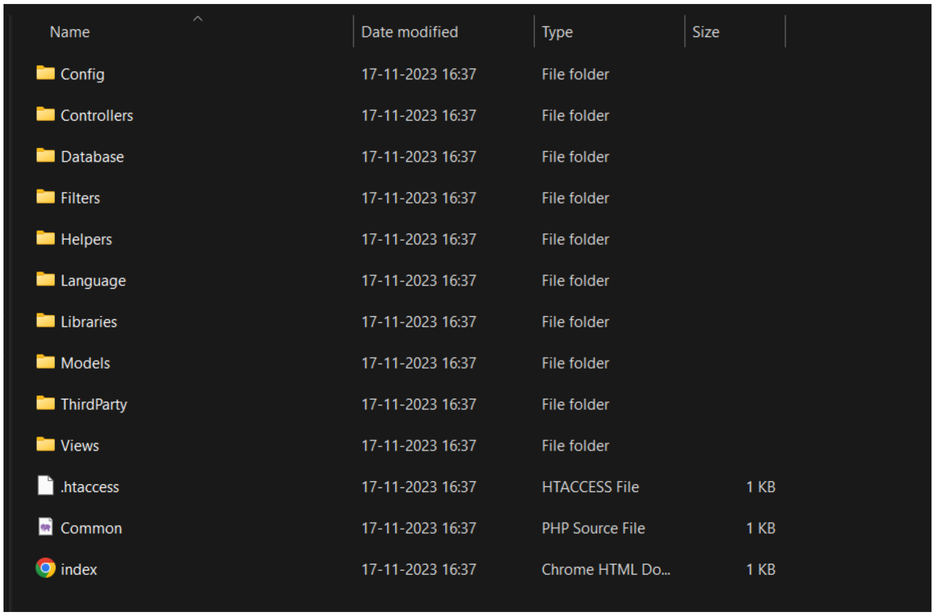
composer create-project codeigniter4/appstarter project-name

These files will be created:



Name	Date modified	Type	Size
app	17-11-2023 16:37	File folder	
public	17-11-2023 16:37	File folder	
system	17-11-2023 16:38	File folder	
tests	17-11-2023 16:38	File folder	
writable	17-11-2023 16:38	File folder	
.env	17-11-2023 17:45	ENV File	5 KB
.htaccess	17-11-2023 16:37	HTACCESS File	1 KB
composer	17-11-2023 16:37	JSON Source File	3 KB
LICENSE	17-11-2023 16:37	File	2 KB
phpunit.xml.dist	17-11-2023 16:37	DIST File	3 KB
preload	17-11-2023 16:37	PHP Source File	4 KB
README	17-11-2023 16:37	Markdown Source ...	3 KB
spark	17-11-2023 16:37	File	4 KB

As CodeIgniter is based on MVC architecture , In App folder there are different folders of Model, View and Controllers.



Name	Date modified	Type	Size
Config	17-11-2023 16:37	File folder	
Controllers	17-11-2023 16:37	File folder	
Database	17-11-2023 16:37	File folder	
Filters	17-11-2023 16:37	File folder	
Helpers	17-11-2023 16:37	File folder	
Language	17-11-2023 16:37	File folder	
Libraries	17-11-2023 16:37	File folder	
Models	17-11-2023 16:37	File folder	
ThirdParty	17-11-2023 16:37	File folder	
Views	17-11-2023 16:37	File folder	
.htaccess	17-11-2023 16:37	HTACCESS File	1 KB
Common	17-11-2023 16:37	PHP Source File	1 KB
index	17-11-2023 16:37	Chrome HTML Do...	1 KB

Experiment Number 7: To construct a simple login page web application to authenticate users using CodeIgniter Framework and also perform CURD operations.

CURD stands for Create, Update, Read and Delete.

- Create a new project using composer.
- Start the Xampp server
- Create a database named as demo

We will create a form for user details in which users can add their details and can update, delete and view those details.

1.Create: This will take input from user in a form.

2.Update: This will enable user to update the details.

3.Read: This will display the details of users in a table.

4.Delete: This will enable user to delete their details.

Firstly create views:

1.add_user.php:

```
<!DOCTYPE html>
<html>
<head>
  <title>Codeigniter 4 Add User With Validation Demo</title>
  <link rel="stylesheet" href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
  <style>
    .container {
      max-width: 500px;
    }
    .error {
      display: block;
      padding-top: 5px;
      font-size: 14px;
      color: red;
    }
  </style>
</head>
```

```
<body>
  <div class="container mt-5">
    <form method="post" id="add_create" name="add_create"
    action="<?= site_url('/submit-form') ?>">
      <div class="form-group">
        <label>Name</label>
        <input type="text" name="name" class="form-control">
      </div>
      <div class="form-group">
        <label>Email</label>
        <input type="text" name="email" class="form-control">
      </div>
      <div class="form-group">
        <button type="submit" class="btn btn-primary btn-block">Update Data</button>
      </div>
    </form>
  </div>
  <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.2/jquery.validate.js"></script>
  <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.2/additional-methods.min.js"></script>
  <script>
    if ($("#add_create").length > 0) {
      $("#add_create").validate({
        rules: {
          name: {
            required: true,
          },
          email: {
            required: true,
            maxlength: 60,
            email: true,
          },
        },
        messages: {
          name: {
            required: "Name is required.",
          },
          email: {
            required: "Email is required.",
            email: "It does not seem to be a valid email.",
            maxlength: "The email should be or equal to 60 chars.",
          },
        },
      })
    }
  </script>
</body>
</html>
```

2. edit_view.php:

```
<!DOCTYPE html>
<html>
```

```
<head>
  <title>Codeigniter 4 CRUD - Edit User Demo</title>
  <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
  <style>
    .container {
      max-width: 500px;
    }
    .error {
      display: block;
      padding-top: 5px;
      font-size: 14px;
      color: red;
    }
  </style>
</head>
<body>
  <div class="container mt-5">
    <form method="post" id="update_user" name="update_user"
    action="<?= site_url('/update') ?>">
      <input type="hidden" name="id" id="id" value="<?php echo $user_obj['id']; ?>">
      <div class="form-group">
        <label>Name</label>
        <input type="text" name="name" class="form-control" value="<?php echo
$user_obj['name']; ?>">
      </div>
      <div class="form-group">
    <label>Email</label>
    <input type="email" name="email" class="form-control" value="<?php echo $user_obj['email']; ?>">
   </div>
   <div class="form-group">
    <button type="submit" class="btn btn-danger btn-block">Save Data</button>
   </div>
  </form>
 </div>
 <script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.2/jquery.validate.js"></script>
 <script src="https://cdnjs.cloudflare.com/ajax/libs/jquery-validate/1.19.2/additional-methods.min.js"></script>
 <script>
  if ($("#update_user").length > 0) {
   $("#update_user").validate({
    rules: {
     name: {
      required: true,
     },
     email: {
      required: true,
      maxlength: 60,
      email: true,
     },
    },
    messages: {
     name: {
      required: "Name is required.",
     },
     email: {
      required: "Email is required.",
      email: "It does not seem to be a valid email.",
      maxlength: "The email should be or equal to 60 chars.",
     },
    },
   })
  }
 </script>
</body>
</html>
```

3.user_view.php:

```
                                      <!doctype html>
<html lang="en">
 <head>
 <meta charset="utf-8">
 <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
 <title>Codeigniter 4 CRUD App Example - positronx.io</title>
 <link rel="stylesheet"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.5.0/css/bootstrap.min.css">
</head>
```

```
<body>
<div class="container mt-4">
    <div class="d-flex justify-content-end">
        <a href="<?php echo site_url('/user-form') ?>" class="btn btn-success mb-2">Add User</a>
                                                                                </div>
    <?php
     if(isset($_SESSION['msg'])){
        echo $_SESSION['msg'];
      }
     ?>
  <div class="mt-3">
     <table class="table table-bordered" id="users-list">
       <thead>
          <tr>
             <th>User Id</th>
             <th>Name</th>
             <th>Email</th>
             <th>Action</th>
          </tr>
       </thead>
       <tbody>
          <?php if($users): ?>
          <?php foreach($users as $user): ?>
          <tr>
             <td><?php echo $user['id']; ?></td>
```

```
            <td><?php echo $user['name']; ?></td>
            <td><?php echo $user['email']; ?></td>
            <td>
             <a href="<?php echo base_url('edit_view/'.$user['id']);?>" class="btn btn-primary btn-sm">Edit</a>
             <a href="<?php echo base_url('delete/'.$user['id']);?>" class="btn btn-danger btn-sm">Delete</a>
             <a href="<?php echo base_url('delete/'.$user['id']);?>" class="btn btn-danger btn-sm">Delete</a>
             </td>
          </tr>
        <?php endforeach; ?>
        <?php endif; ?>
      </tbody>
    </table>
  </div>
</div>


<script src="https://code.jquery.com/jquery-3.5.1.slim.min.js"></script>
<link rel="stylesheet" type="text/css" href="https://cdn.datatables.net/1.10.21/css/jquery.dataTables.min.css">
<script type="text/javascript" src="https://cdn.datatables.net/1.10.21/js/jquery.dataTables.min.js"></script>
<script>
    $(document).ready( function () {
      $('#users-list').DataTable();
  } );
</script>
```

```
</body>
</html>
```

Models:

UserModel.php:

```
<?php
namespace App\Models;
use CodeIgniter\Model;
class UserModel extends Model
{
    protected $table = 'users';
    protected $primaryKey = 'id';

    protected $allowedFields = ['name', 'email'];
}
```

Controller:

UserCrud.php

```
<?php
namespace App\Controllers;
use App\Models\UserModel;
use CodeIgniter\Controller;
class UserCrud extends Controller
{
    // show users list
    public function index(){
```

```
    $userModel = new UserModel();
    $data['users'] = $userModel->orderBy('id', 'DESC')->findAll();
    return view('user_view', $data);
}
// add user form
public function create(){
    return view('add_user');
}

// insert data
public function store() {
    $userModel = new UserModel();
    $data = [
        'name' => $this->request->getVar('name'),
        'email'  => $this->request->getVar('email'),
    ];
    $userModel->insert($data);
    return $this->response->redirect(site_url('/users-list'));
}
// show single user
public function singleUser($id = null){
    $userModel = new UserModel();
    $data['user_obj'] = $userModel->where('id', $id)->first();
    return view('edit_view', $data);
}
// update user data
```

```
    public function update(){
        $userModel = new UserModel();
        $id = $this->request->getVar('id');
        $data = [
            'name' => $this->request->getVar('name'),
            'email'  => $this->request->getVar('email'),
        ];
        $userModel->update($id, $data);
        return $this->response->redirect(site_url('/users-list'));
    }

    // delete user
    public function delete($id = null){
        $userModel = new UserModel();
        $data['user'] = $userModel->where('id', $id)->delete($id);
        return $this->response->redirect(site_url('/users-list'));
    }
}
```

Create the routes:

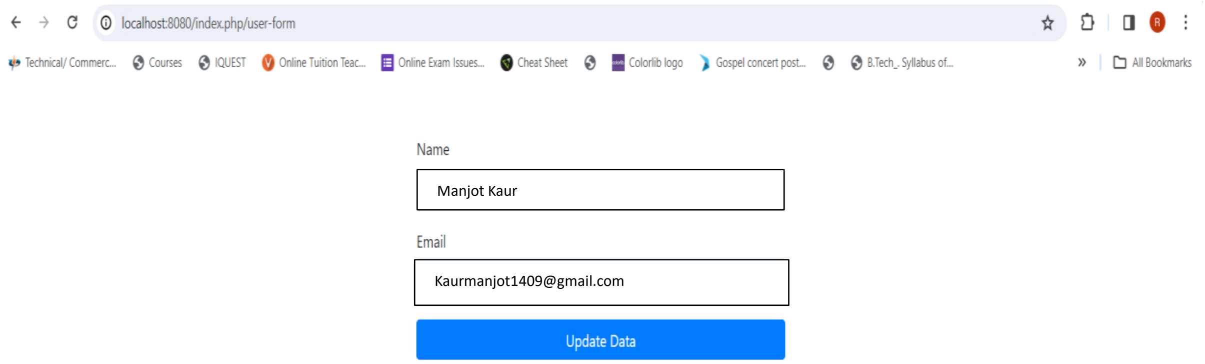
```
<?php
use CodeIgniter\Router\RouteCollection;
/**
 * @var RouteCollection $routes
 */
```

```
// CRUD RESTful Routes
$routes->get('/', 'UserCrud::index');
$routes->get('users-list', 'UserCrud::index');
$routes->get('user-form', 'UserCrud::create');
$routes->post('submit-form', 'UserCrud::store');
$routes->get('edit_view/(:num)', 'UserCrud::singleUser/$1');
$routes->post('update', 'UserCrud::update');
$routes->get('delete/(:num)', 'UserCrud::delete/$1');
```

In database.php add the database:

```
public array $default = [
        'DSN'          => '',
        'hostname'     => 'localhost',
        'username'     => 'root',
        'password'     => '',
        'database'     => 'demo',
        'DBDriver'     => 'MySQLi',
        'DBPrefix'     => '',
        'pConnect'     => false,
        'DBDebug'      => true,
        'charset'      => 'utf8',
        'DBCollat'     => 'utf8_general_ci',
        'swapPre'      => '',
        'encrypt'      => false,
        'compress'     => false,
        'strictOn'     => false,
        'failover'     => [],
        'port'         => 3306,
        'numberNative' => false,
    ];
```

Add User:



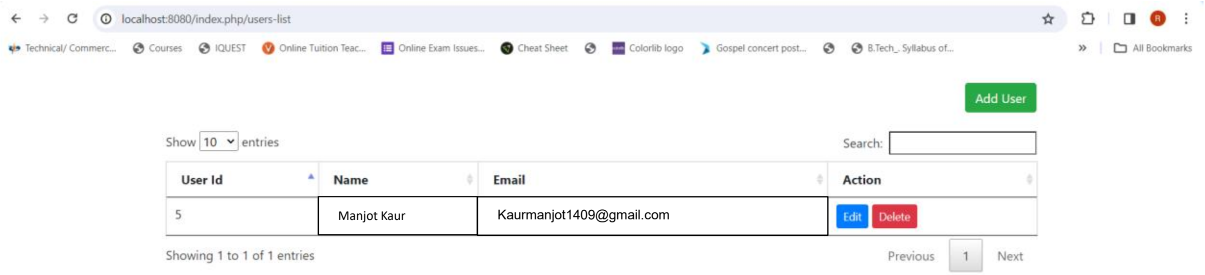
Name

Manjot Kaur

Email

Kaurmanjot1409@gmail.com

User View:



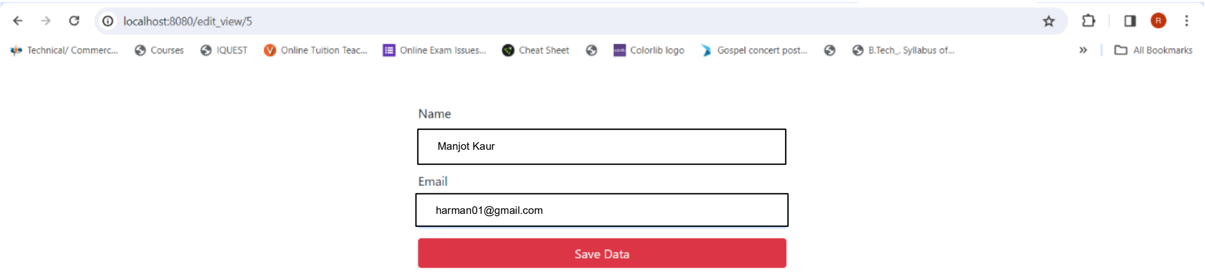
Show 10 entries

Search:

User Id	Name	Email	Action
5	Manjot Kaur	Kaurmanjot1409@gmail.com	Edit Delete

Showing 1 to 1 of 1 entries

Update data:



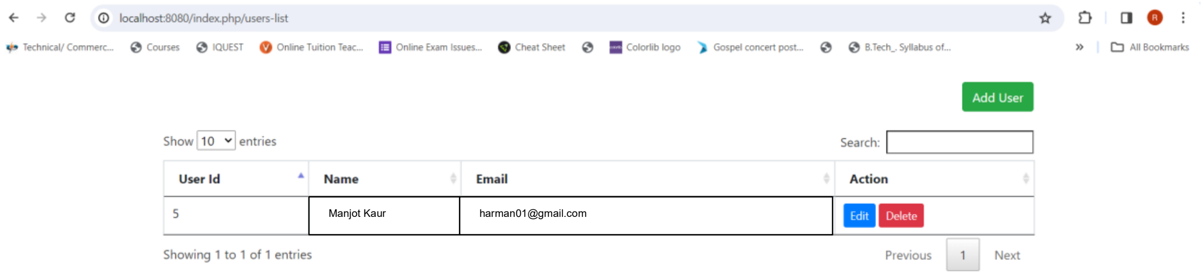
Name

Manjot Kaur

Email

harman01@gmail.com

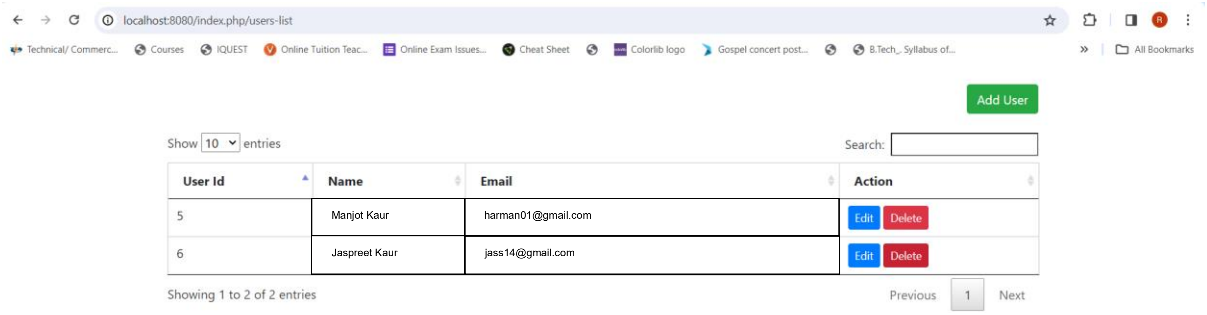
Add new user:



User Id	Name	Email	Action
5	Manjot Kaur	harman01@gmail.com	Edit Delete

Showing 1 to 1 of 1 entries

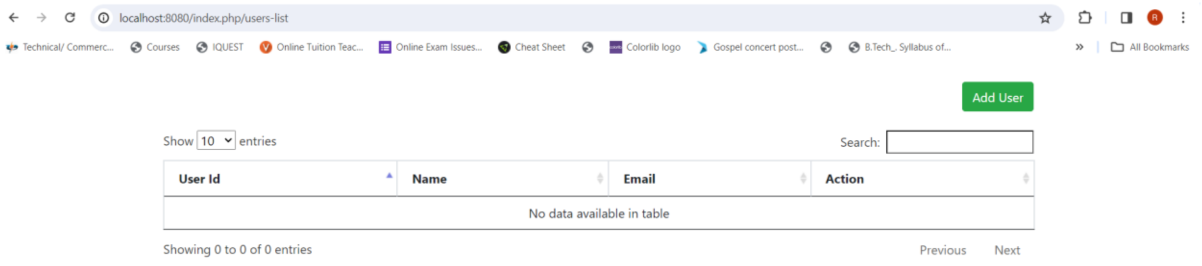
New user added:



User Id	Name	Email	Action
5	Manjot Kaur	harman01@gmail.com	Edit Delete
6	Jaspreet Kaur	jass14@gmail.com	Edit Delete

Showing 1 to 2 of 2 entries

Deleted the users:

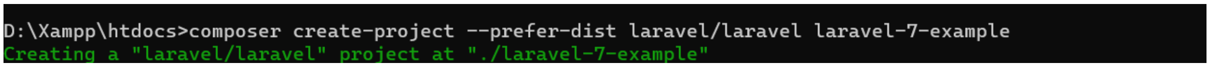


User Id	Name	Email	Action
No data available in table			

Showing 0 to 0 of 0 entries

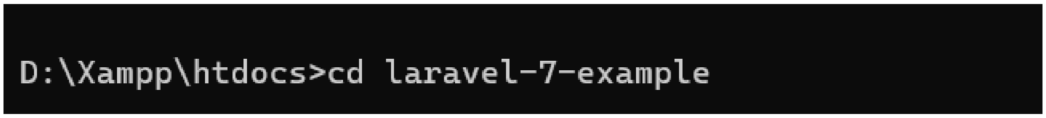
Experiment Number 8: To install and setup, configure the Laravel Framework.

Installing Laravel via composer:

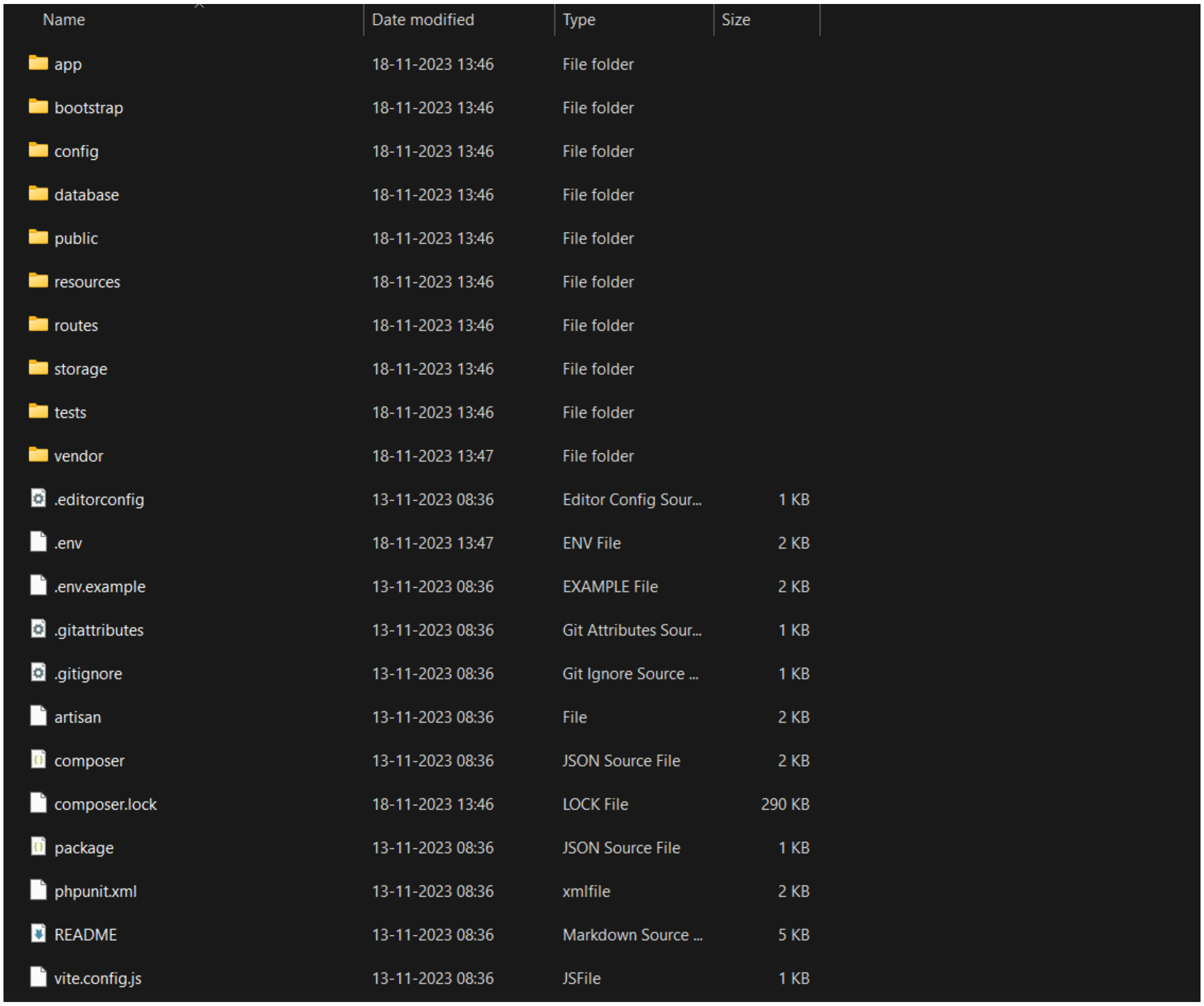


```
D:\Xampp\htdocs>composer create-project --prefer-dist laravel/laravel laravel-7-example
Creating a "laravel/laravel" project at "./laravel-7-example"
```

Then go to the specified project:

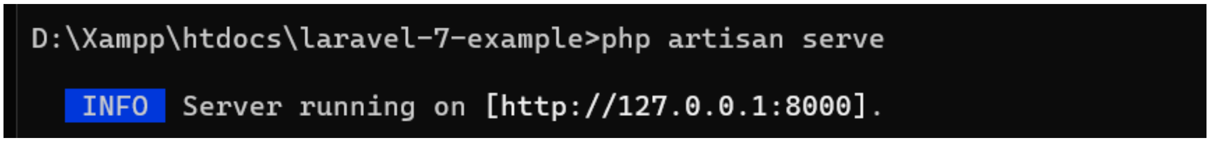


```
D:\Xampp\htdocs>cd laravel-7-example
```

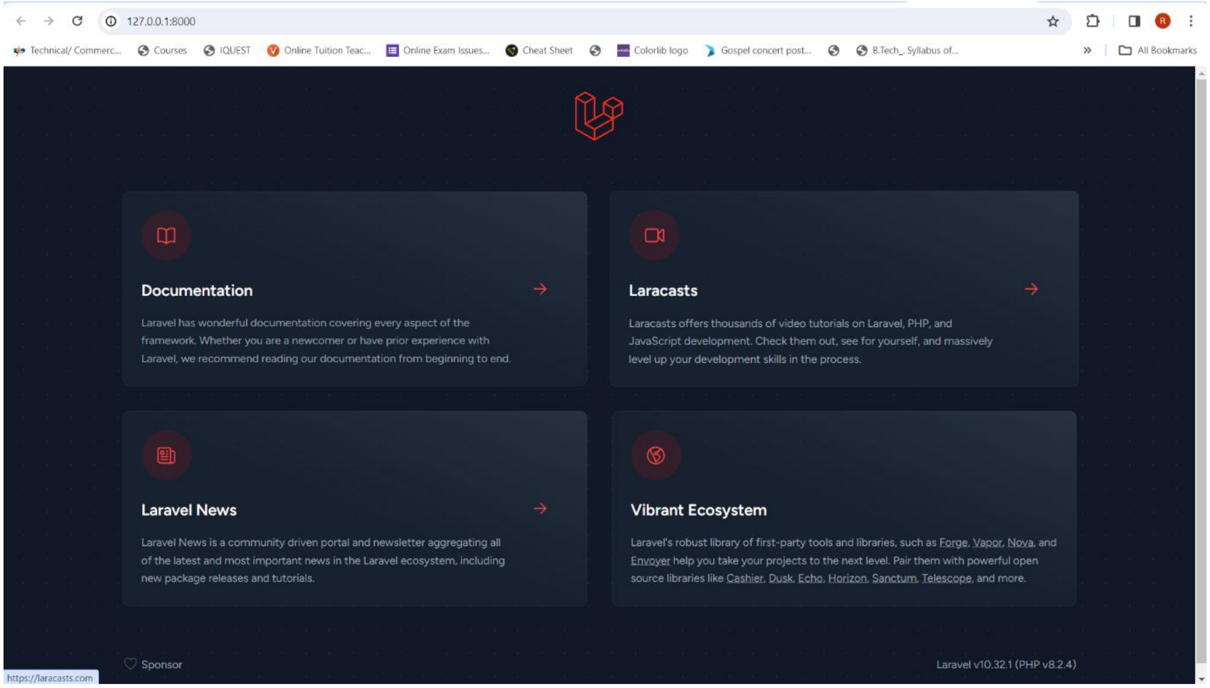


Name	Date modified	Type	Size
app	18-11-2023 13:46	File folder	
bootstrap	18-11-2023 13:46	File folder	
config	18-11-2023 13:46	File folder	
database	18-11-2023 13:46	File folder	
public	18-11-2023 13:46	File folder	
resources	18-11-2023 13:46	File folder	
routes	18-11-2023 13:46	File folder	
storage	18-11-2023 13:46	File folder	
tests	18-11-2023 13:46	File folder	
vendor	18-11-2023 13:47	File folder	
.editorconfig	13-11-2023 08:36	Editor Config Sour...	1 KB
.env	18-11-2023 13:47	ENV File	2 KB
.env.example	13-11-2023 08:36	EXAMPLE File	2 KB
.gitattributes	13-11-2023 08:36	Git Attributes Sour...	1 KB
.gitignore	13-11-2023 08:36	Git Ignore Source ...	1 KB
artisan	13-11-2023 08:36	File	2 KB
composer	13-11-2023 08:36	JSON Source File	2 KB
composer.lock	18-11-2023 13:46	LOCK File	290 KB
package	13-11-2023 08:36	JSON Source File	1 KB
phpunit.xml	13-11-2023 08:36	xmlfile	2 KB
README	13-11-2023 08:36	Markdown Source ...	5 KB
vite.config.js	13-11-2023 08:36	JSFile	1 KB

Start the development server:



```
D:\Xampp\htdocs\laravel-7-example>php artisan serve

  INFO  Server running on [http://127.0.0.1:8000].
```



Documentation

Laravel has wonderful documentation covering every aspect of the framework. Whether you are a newcomer or have prior experience with Laravel, we recommend reading our documentation from beginning to end.

Laracasts

Laracasts offers thousands of video tutorials on Laravel, PHP, and JavaScript development. Check them out, see for yourself, and massively level up your development skills in the process.

Laravel News

Laravel News is a community driven portal and newsletter aggregating all of the latest and most important news in the Laravel ecosystem, including new package releases and tutorials.

Vibrant Ecosystem

Laravel's robust library of first-party tools and libraries, such as Forge, Vapor, Nova, and Envoyer help you take your projects to the next level. Pair them with powerful open source libraries like Cashier, Dusk, Echo, Horizon, Sanctum, Telescope, and more.

♡ Sponsor

Laravel v10.32.1 (PHP v8.2.4)

This is by default welcome page of Laravel

We can configure the files according to our requirements.

Experiment Number 9: To construct the any simple web application using Laravel Framework.

First we are creating our project with these commands

```
composer create-project laravel/laravel first-project

cd first-project

php artisan serve
```

First of all we will make a migration in it

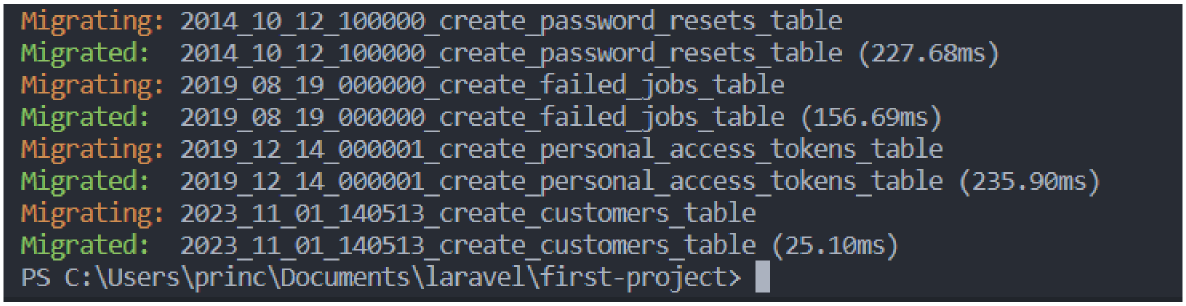
```
php artisan make:migration customers
```

After that write code in it in this way in our migration file.

```
public function up()
{

Schema::create('customers', function (Blueprint $table) {
$table->id();
$table->string('name',60);
$table->string('email',100);
$table->enum('gender',["M","F","O"]);
$table->text('address');
$table->date('dob');
$table->timestamps();
});

}
```

After that we will run our server

```
php artisan migrate
```



```
Migrating: 2014_10_12_100000_create_password_resets_table
Migrated:  2014_10_12_100000_create_password_resets_table (227.68ms)
Migrating: 2019_08_19_000000_create_failed_jobs_table
Migrated:  2019_08_19_000000_create_failed_jobs_table (156.69ms)
Migrating: 2019_12_14_000001_create_personal_access_tokens_table
Migrated:  2019_12_14_000001_create_personal_access_tokens_table (235.90ms)
Migrating: 2023_11_01_140513_create_customers_table
Migrated:  2023_11_01_140513_create_customers_table (25.10ms)
PS C:\Users\princ\Documents\laravel\first-project>
```

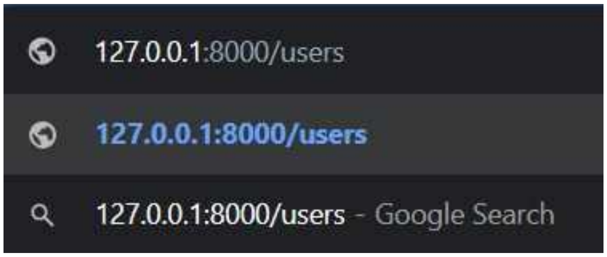
After that we will write this code in our web.php file

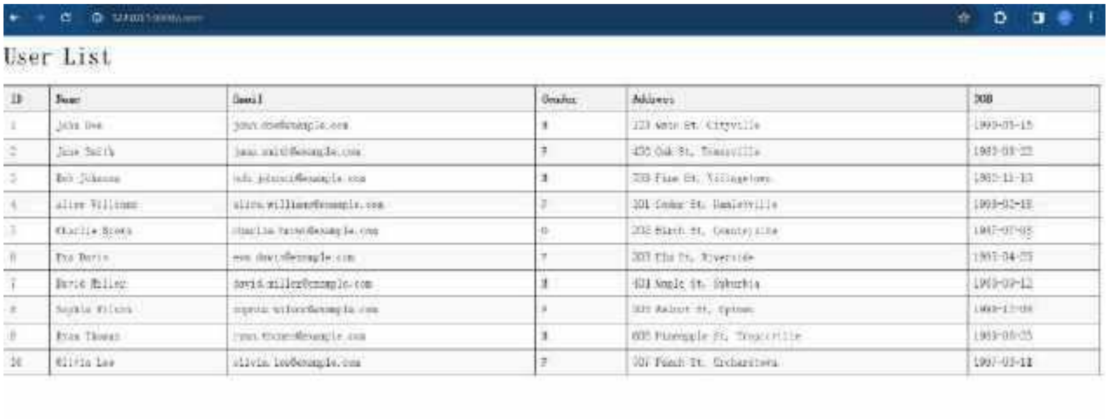
```
Route::get('/', function () {
        return view('welcome');
      });

Route::get('/users', [UserController::class, 'show']);
```

After that this will be the code that will be written in our view

```
<!-- resources/views/users.blade.php -->
<style>
table {
          border-collapse:
          collapse;        width:
          100%;
        }
        th, td {
          border: 1px solid black;
          padding: 8px;
          text-align: left;
        }

        th {
background-color: #f2f2f2;
        }

       tr:nth-child(even)
       {
       background-color:
          #f9f9f9;
        }

</style>
<h1>User List</h1>
<table>
<thead>
 <tr>
        <th>ID</th>
        <th>Name</th>
        <th>Email</th>
        <th>Gender</th>
        <th>Address</th>
        <th>DOB</th>
  </tr>
 </thead>
<tbody>
           @foreach($data as $user)
          <tr>
                   <td>{{ $user->id }}</td>
                   <td>{{ $user->name }}</td>
                   <td>{{ $user->email }}</td>
                   <td>{{ $user->gender }}</td>
                   <td>{{ $user->address }}</td>
                   <td>{{ $user->dob }}</td>
          </tr>

          @endforeach

          </tbody>

</table>
```

Then After we have move to the





User List

ID	Name	Email	Gender	Address	DOB
1	John Doe	john.doe@example.com	M	123 Main St, Cityville	1990-05-15
2	Jane Smith	jane.smith@example.com	F	456 Oak St, Townsville	1985-08-22
3	Bob Johnson	bob.johnson@example.com	M	789 Pine St, Villagetown	1982-11-10
4	Alice Williams	alice.williams@example.com	F	101 Cedar St, Hamletville	1993-02-18
5	Charlie Brown	charlie.brown@example.com	O	202 Birch St, Countryside	1987-07-05
6	Eva Davis	eva.davis@example.com	F	303 Elm St, Riverside	1991-04-25
7	David Miller	david.miller@example.com	M	404 Maple St, Suburbia	1989-09-12
8	Sophia Wilson	sophia.wilson@example.com	F	505 Walnut St, Uptown	1988-12-08
9	Ryan Thomas	ryan.thomas@example.com	M	606 Pineapple St, Tropicville	1983-06-25
10	Olivia Lee	olivia.lee@example.com	F	707 Peach St, Orchardtown	1997-03-11

This is our Basic application in Laravel.