

Assignment 1

1a. Create a responsive web page that shows the ecommerce/college/exam admin dashboard with sidebar and statistics in cards using HTML, CSS, and Bootstrap.

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.2/font/bootstrap-icons.css"
    />
    <link rel="stylesheet" href="css/style.css" />
    <title>Student Registration Form</title>
  </head>

  <body>
    <main class="mt-5 pt-3">
      <div class="container">
        <div class="container-fluid px-4">
          <div class="row g-3 my-2">
            <div class="rounded">
              <div class="h1 my-4 text-center border">Add Student Form</div>
              <form id="studentForm">
                <div class="border p-3">
                  <div class="row">
                    <div class="col-md-6 mt-md-3 mt-3">
                      <label>First Name</label>
                      <input
                        type="text"
                        id="firstName"
                        class="form-control"
                        required
                      />
                    </div>
                    <div class="col-md-6 mt-md-3 mt-3">
                      <label>Last Name</label>
                      <input
                        type="text"
                        id="lastName"
                        class="form-control"
                        required
                      />
                    </div>
                  </div>
                </div>
              </form>
            </div>
          </div>
        </div>
      </main>
    </body>

```

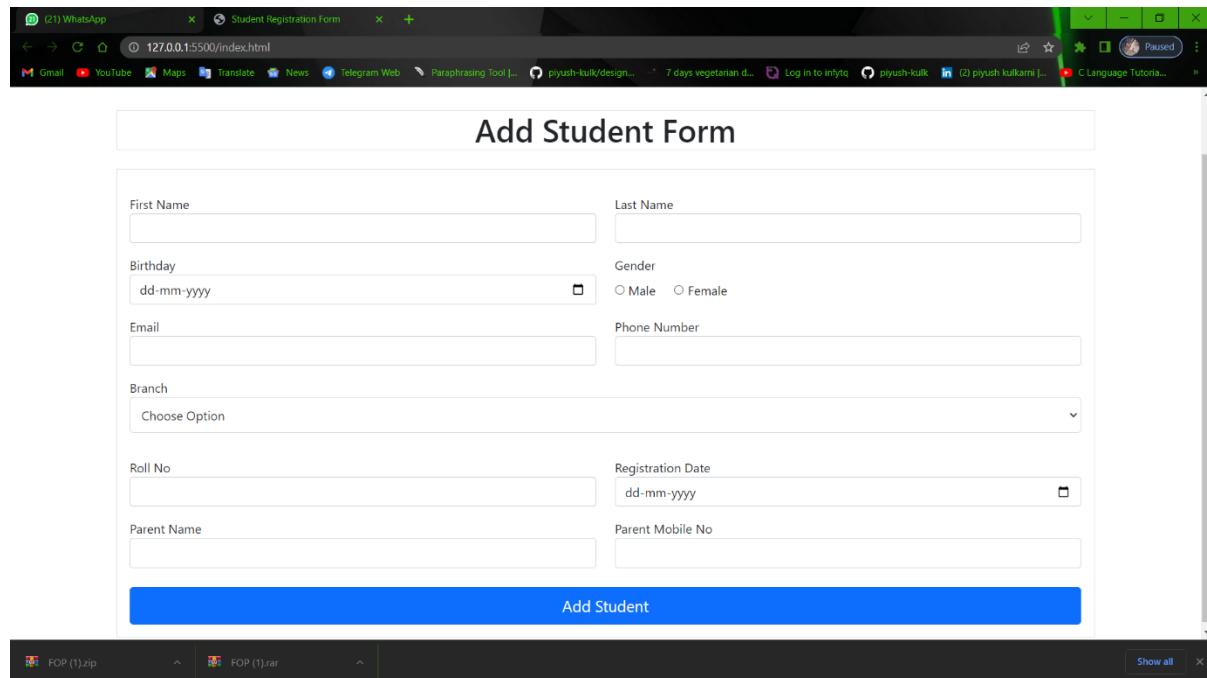
```
        />
      </div>
    </div>
<div class="row">
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Birthday</label>
    <input
      type="date"
      id="dob"
      class="form-control"
      required
    />
  </div>
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Gender</label>
    <div class="d-flex align-items-center mt-2">
      <label class="option">
        <input type="radio" name="gender" value="male" />
        Male <span class="checkmark"></span>
      </label>
      <label class="option ms-4">
        <input type="radio" name="gender" value="female" />
        Female <span class="checkmark"></span>
      </label>
    </div>
  </div>
</div>
<div class="row">
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Email</label>
    <input
      type="email"
      id="email"
      class="form-control"
      required
    />
  </div>
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Phone Number</label>
    <input
      type="tel"
      id="contactNo"
      class="form-control"
      required
    />
  </div>
</div>
<div class="my-md-3 my-3">
```

```
<label>Branch</label>
<select id="sub" required>
    <option value="" selected hidden>Choose Option</option>
    <option value="Maths">IT</option>
    <option value="Science">CSE</option>
    <option value="Social">Mechanical</option>
    <option value="Hindi">Civil</option>
</select>
</div>
<div class="row">
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Roll No</label>
        <input
            type="text"
            id="rollno"
            class="form-control"
            required
        />
    </div>
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Registration Date</label>
        <input
            type="date"
            id="registrationDate"
            class="form-control"
            required
        />
    </div>
</div>
<div class="row">
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Parent Name</label>
        <input
            type="text"
            id="parentName"
            class="form-control"
            required
        />
    </div>
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Parent Mobile No</label>
        <input
            type="tel"
            id="parentMobileNo"
            class="form-control"
            required
        />
    </div>
</div>
```

```

        </div>
    <div class="d-grid mt-4">
        <button
            class="btn btn-primary btn-lg"
            id="btnAddStudent"
            type="button"
        >
            Add Student
        </button>
    </div>
</div>
</div>
</div>
</div>
</main>
<script src=".js/bootstrap.bundle.min.js"></script>
<script src=".js/jquery-3.5.1.js"></script>
<script src=".js/myscript.js"></script>
</body>
</html>

```



Display data.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link
        rel="stylesheet"
        href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css"
    />
    <link rel="stylesheet" href="css/style.css" />
    <title>Student Registration Form</title>
</head>

<body>
    <main class="mt-5 pt-3">
        <div class="text-center">
            <i class="bi bi-emoji-smile fs-1 text-primary"></i>
        </div>
        <div class="container">
            <div class="h1 my-4 text-center border">Student Data</div>
            <div class="row my-5">
                <div class="card">
                    <div class="card-header fw-bolder h5 text-uppercase">
                        #Roll No - <span id="rollno">123</span>
                    </div>
                    <div class="card-body">
                        <h5 class="card-title fw-bold text-uppercase">
                            <span id="firstName">Maheh</span>
                            <span id="lastName">Bodhgire</span>
                        </h5>
                        <small class="text-uppercase fw-bold text-muted">
                            Personal Information
                        </small>
                        <hr />
                        <p class="card-text fs-6 fw-bold">
                            <i class="bi bi-calendar-date me-2"></i>
                            Date of Birth -<span id="dob">12/22/3333</span>
                        </p>
                        <p class="card-text fs-6 fw-bold">
                            <i class="bi bi-gender-ambiguous me-2"></i>
                            Gender -<span id="gender" class="text-uppercase">Male</span>
                        </p>
                        <small class="text-uppercase fw-bold text-muted">
                            Contact Information
                        </small>
                    </div>
                </div>
            </div>
        </div>
    </main>
</body>
```

```

        </small>
        <hr />
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-envelope me-2"></i>
            Email -<span id="email">Email@gmail.com</span>
        </p>
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-telephone me-2"></i>
            Mobile No -<span id="contactNo">9878743434</span>
        </p>

        <small class="text-uppercase fw-bold text-muted">
            College Information
        </small>
        <hr />
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-book me-2"></i>
            Branch -<span id="branch">IT</span>
        </p>
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-calendar-date me-2"></i>
            Registration Date -<span id="registrationDate">Male</span>
        </p>
        <small class="text-uppercase fw-bold text-muted">
            Parent Information
        </small>
        <hr />
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-people me-2"></i>
            Parent Name -<span id="parentName">ABC</span>
        </p>
        <p class="card-text fs-6 fw-bold">
            <i class="bi bi-telephone me-2"></i>
            Parent Contact No -<span id="parentContactNo">Male</span>
        </p>
        </div>
    </div>
</div>
</main>
<script src="./js/bootstrap.bundle.min.js"></script>
<script src="./js/jquery-3.5.1.js"></script>
<script src="./js/display-data.js"></script>
</body>
</html>

```



😊

Student Data

#ROLL NO - 41

ATHARVA KULKARNI

PERSONAL INFORMATION

Date of Birth - 5/4/2022
Gender -MALE

CONTACT INFORMATION

Email -piyushkulkarni10@gmail.com
Mobile No -9518943376

COLLEGE INFORMATION

Branch -IT
Registration Date -22/4/2022

PARENT INFORMATION

Parent Name -abc
Parent Contact No -1234567889



1b. Write a JavaScript Program to get the user registration data and push it to array/local storage with the AJAX POST method and data list on a new page.

Student dashboard.html

```
<!DOCTYPE html>
<html lang="en">

<head>
  <meta charset="UTF-8" />
  <meta http-equiv="X-UA-Compatible" content="IE=edge" />
  <meta name="viewport" content="width=device-width, initial-scale=1.0" />
  <link rel="stylesheet" href="css/bootstrap.min.css" />
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
  icons@1.4.1/font/bootstrap-icons.css" />
  <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-
  icons@1.7.2/font/bootstrap-icons.css">
  <link rel="stylesheet" href="css/style.css" />
  <title>College Management System</title>
</head>

<body>
  <!-- top navigation bar -->
  <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
```

```
<div class="container-fluid">
    <button class="navbar-toggler" type="button" data-bs-toggle="offcanvas"
data-bs-target="#sidebar"
        aria-controls="offcanvasExample">
        <span class="navbar-toggler-icon" data-bs-target="#sidebar"></span>
    </button>
    <a class="navbar-brand me-auto ms-lg-0 ms-3 text-uppercase fw-bold"
href="#">PUNE UNIVERSITY</a>
    <button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#topNavBar"
        aria-controls="topNavBar" aria-expanded="false" aria-label="Toggle
navigation">
        <span class="navbar-toggler-icon"></span>
    </button>
    <div class="collapse navbar-collapse" id="topNavBar">
        <form class="d-flex ms-auto my-3 my-lg-0">
            <div class="input-group">
                <input class="form-control" type="search" placeholder="Search"
aria-label="Search" />
                <button class="btn btn-primary" type="submit">
                    <i class="bi bi-search"></i>
                </button>
            </div>
        </form>
        <ul class="navbar-nav">
            <li class="nav-item dropdown">
                <a class="nav-link dropdown-toggle ms-2" href="#" role="button"
data-bs-toggle="dropdown"
                    aria-expanded="false">
                    <i class="bi bi-person-fill"></i>
                </a>
                <ul class="dropdown-menu dropdown-menu-end">
                    <li><a class="dropdown-item" href="#">Profile</a></li>
                    <li><a class="dropdown-item" href="#">Logout</a></li>
                </ul>
            </li>
        </ul>
    </div>
</div>
</nav>
<!-- top navigation bar -->
<!-- offcanvas -->
<div class="offcanvas offcanvas-start sidebar-nav bg-dark" tabindex="-1"
id="sidebar">
    <div class="offcanvas-body p-0">
        <nav class="navbar-dark">
            <ul class="navbar-nav">
                <li>
```

```
<div class="text-muted small fw-bold text-uppercase px-3">
    CORE
</div>
</li>
<li>
    <a href="#" class="nav-link px-3 active">
        <span class="me-2"><i class="bi bi-speedometer2"></i></span>
        Dashboard</span>
    </a>
</li>
<li class="my-4">
    <hr class="dropdown-divider bg-light" />
</li>
<li>
    <div class="text-muted small fw-bold text-uppercase px-3 mb-3">
        College Management
    </div>
</li>
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#students">
        <span class="me-2"><i class="bi bi-people-fill"></i></span>
        Students</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="students">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-list"></i></span>
                    Student List</span>
                </a>
            </li>
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-person-plus-
fill"></i></span>
                    <span>Add Student</span>
                </a>
            </li>
        <ul>
            </div>
</li>
<li>
```

```
<a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#professors">
    <span class="me-2"><i class="bi bi-person-badge"></i></span>
    <span>Professors</span>
    <span class="ms-auto">
        <span class="right-icon">
            <i class="bi bi-chevron-down"></i>
        </span>
    </span>
</a>
<div class="collapse" id="professors">
    <ul class="navbar-nav ps-3">
        <li>
            <a href="#" class="nav-link px-3">
                <span class="me-2"><i class="bi bi-list"></i></span>
                <span>Professors List</span>
            </a>
        </li>
        <li>
            <a href="#" class="nav-link px-3">
                <span class="me-2"><i class="bi bi-person-plus-
fill"></i></span>
                    <span>Add Professors</span>
                </a>
            </li>
        </ul>
    </div>
</li>
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#branches">
        <span class="me-2"><i class="bi bi-book"></i></span>
        <span>Branches</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="branches">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-list"></i></span>
                    <span>Branch List</span>
                </a>
            </li>
            <li>
```

```
        <a href="#" class="nav-link px-3">
            <span class="me-2"><i class="bi bi-bookmark-plus-
fill"></i></span>
            <span>Add Branch</span>
        </a>
    </li>
</ul>
</div>
</li>
</ul>
</nav>
</div>
</div>
<!-- offcanvas -->
<main class="mt-5 pt-3">
    <div class="container-fluid">
        <div class="row">
            <div class="col-md-12">
                <h4>Dashboard</h4>
            </div>
        </div>
        <div class="container-fluid px-4">
            <div class="row g-3 my-2">
                <div class="col-md-4">
                    <div class="p-3 bg-primary text-white shadow-lg d-flex justify-
content-around align-items-center rounded">
                        <div>
                            <h3 class="fs-2">10000</h3>
                            <p class="fs-5">Total Students</p>
                        </div>
                        <i class="bi bi-people-fill border rounded p-3" style="font-
size: 1.8rem;"></i>
                    </div>
                </div>
            </div>
            <div class="col-md-4">
                <div class="p-3 bg-danger text-white shadow-lg d-flex justify-
content-around align-items-center rounded">
                    <div>
                        <h3 class="fs-2">5000</h3>
                        <p class="fs-5">Boys</p>
                    </div>
                    <i class="bi bi-gender-male border rounded p-3" style="font-
size: 2rem;"></i>
                </div>
            </div>
            <div class="col-md-4">
```

```

<div class="p-3 bg-success text-white shadow-lg d-flex justify-content-around align-items-center rounded">
    <div>
        <h3 class="fs-2">5000</h3>
        <p class="fs-5">Girls</p>
    </div>
    <i class="bi bi-gender-female border rounded p-3" style="font-size: 1.8rem;"></i>
</div>
</div>
</div>
<div class="container-fluid px-4">
    <div class="row my-4 ">
        <div class="col-md-12">
            <h4>Student List</h4>
        </div>
    </div>
    <table class="table table-hover table-sm">
        <thead>
            <tr>
                <th scope="col">#Roll No</th>
                <th scope="col">Name</th>
                <th scope="col">Branch</th>
                <th scope="col">Mobile No</th>
                <th scope="col">Email</th>
                <th scope="col">Admission Date</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td class="left">18</td>
                <td>Rajesh Bhatt</td>
                <td class="left">Mechanical</td>
                <td><a href="tel:9876543210"> 9876543210 </a></td>
                <td><a href="mailto:shuxer@gmail.com"> rajesh@gmail.com
</a></td>
                <td class="left">22 Feb 2010</td>
            </tr>
            <tr>
                <td class="left">5</td>
                <td>Pooja Patel</td>
                <td class="left">Science</td>
                <td><a href="tel:9876543210"> 9876543210 </a></td>
                <td><a href="mailto:shuxer@gmail.com"> pooja@gmail.com </a></td>
                <td class="left">27 Aug 2005</td>
            </tr>
            <tr>

```

<td class="left">15</td>	15	Sarah Smith	M.C.A.	 9876543210 	 sarah@gmail.com 	05 Jun 2011
<td class="left">23</td>	23	John Deo	M.B.B.S.	 9876543210 	 john@gmail.com 	15 Feb 2012
<td class="left">10</td>	10	Jay Soni	Arts	 9876543210 	 kenh@gmail.com 	12 Nov 2012
<td class="left">14</td>	14	Jacob Ryan	Music	 9876543210 	 johnson@gmail.com 	03 Dec 2001
<td class="left">7</td>	7	Megha Trivedi	Commerce	 9876543210 	 megha@gmail.com 	17 Mar 2013
<td class="left">18</td>	18	Rajesh	Civil	 9876543210 	 rajesh@gmail.com 	22 Feb 2000

```

        </tr>
        <tr>
            <td class="left">5</td>
            <td>Pooja Patel</td>
            <td class="left">Computer</td>
            <td><a href="tel:9876543210"> 9876543210 </a></td>
            <td><a href="mailto:shuxer@gmail.com"> pooja@gmail.com </a></td>
            <td class="left">27 Aug 2005</td>
        </tr>
        <tr>
            <td class="left">18</td>
            <td>Rajesh Bhatt</td>
            <td class="left">Mechanical</td>
            <td><a href="tel:9876543210"> 9876543210 </a></td>
            <td><a href="mailto:shuxer@gmail.com"> rajesh@gmail.com
</a></td>
                <td class="left">22 Feb 2010</td>
            </tr>
        </tbody>
    </table>
    <nav aria-label="...">
        <ul class="pagination float-end">
            <li class="page-item disabled">
                <a class="page-link">Previous</a>
            </li>
            <li class="page-item"><a class="page-link" href="#">1</a></li>
            <li class="page-item active" aria-current="page">
                <a class="page-link" href="#">2</a>
            </li>
            <li class="page-item"><a class="page-link" href="#">3</a></li>
            <li class="page-item">
                <a class="page-link" href="#">Next</a>
            </li>
        </ul>
    </nav>
</div>
</main>
<script src="./js/bootstrap.bundle.min.js"></script>
<script src="./js/jquery-3.5.1.js"></script>
</body>

</html>

```

The screenshot shows a web-based college management system. On the left, a sidebar menu includes 'COLLEGE MANAGEMENT' sections for Students, Professors, and Branches, along with 'Dashboard'. The main content area is titled 'Dashboard' and displays three summary boxes: '10000 Total Students' (blue), '5000 Boys' (red), and '5000 Girls' (green). Below this is a 'Student List' table with columns: #Roll No, Name, Branch, Mobile No, Email, and Admission Date. The table contains 18 rows of student data. At the bottom right of the dashboard, there are navigation buttons for 'Previous', '1', '2', '3', and 'Next'.

#Roll No	Name	Branch	Mobile No	Email	Admission Date
18	Rajesh Bhatt	Mechanical	9876543210	raiesh@gmail.com	22 Feb 2010
5	Pooja Patel	Science	9876543210	pooja@gmail.com	27 Aug 2005
15	Sarah Smith	M.C.A.	9876543210	sarah@gmail.com	05 Jun 2011
23	John Deo	M.B.B.S.	9876543210	john@gmail.com	15 Feb 2012
10	Jay Soni	Arts	9876543210	jayn@gmail.com	12 Nov 2012
14	Jacob Ryan	Music	9876543210	johson@gmail.com	03 Dec 2001
7	Megha Trivedi	Commerce	9876543210	megha@gmail.com	17 Mar 2013
18	Rajesh	Civil	9876543210	raiesh@gmail.com	22 Feb 2000
5	Pooja Patel	Computer	9876543210	pooja@gmail.com	27 Aug 2005
18	Rajesh Bhatt	Mechanical	9876543210	raiesh@gmail.com	22 Feb 2010

Add student.html

```
<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" />
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.2/font/bootstrap-icons.css" />
    <link rel="stylesheet" href="css/style.css" />
    <title>College Management System</title>
</head>

<body>
    <!-- top navigation bar -->
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
        <div class="container-fluid">
            <button class="navbar-toggler" type="button" data-bs-toggle="offcanvas" data-bs-target="#sidebar"
                aria-controls="offcanvasExample">
                <span class="navbar-toggler-icon" data-bs-target="#sidebar"></span>
            </button>
```

```

        <a class="navbar-brand me-auto ms-lg-0 ms-3 text-uppercase fw-
bold" href="#">PUNE UNIVERSITY</a>
        <button class="navbar-toggler" type="button" data-bs-
toggle="collapse" data-bs-target="#topNavBar"
            aria-controls="topNavBar" aria-expanded="false" aria-
label="Toggle navigation">
            <span class="navbar-toggler-icon"></span>
        </button>
        <div class="collapse navbar-collapse" id="topNavBar">
            <form class="d-flex ms-auto my-3 my-lg-0">
                <div class="input-group">
                    <input class="form-control" type="search"
placeholder="Search" aria-label="Search" />
                    <button class="btn btn-primary" type="submit">
                        <i class="bi bi-search"></i>
                    </button>
                </div>
            </form>
            <ul class="navbar-nav">
                <li class="nav-item dropdown">
                    <a class="nav-link dropdown-toggle ms-2" href="#">
                    <!-- button -->
                    <!-- data-bs-toggle="dropdown" -->
                    <!-- aria-expanded="false" -->
                    <i class="bi bi-person-fill"></i>
                    </a>
                    <ul class="dropdown-menu dropdown-menu-end">
                        <li><a class="dropdown-item"
href="#">Profile</a></li>
                        <li><a class="dropdown-item"
href="#">Logout</a></li>
                    </ul>
                </li>
            </ul>
        </div>
    </div>
    <!-- top navigation bar -->
    <!-- offcanvas -->
    <div class="offcanvas offcanvas-start sidebar-nav bg-dark" tabindex="-1"
id="sidebar">
        <div class="offcanvas-body p-0">
            <nav class="navbar-dark">
                <ul class="navbar-nav">
                    <li>
                        <div class="text-muted small fw-bold text-uppercase
px-3">
                            CORE
                        </div>

```

```

        </li>
        <li>
            <a href="#" class="nav-link px-3 active">
                <span class="me-2"><i class="bi bi-speedometer2"></i></span>
                <span>Dashboard</span>
            </a>
        </li>
        <li class="my-4">
            <hr class="dropdown-divider bg-light" />
        </li>
        <li>
            <div class="text-muted small fw-bold text-uppercase px-3 mb-3">
                College Management
            </div>
        </li>
        <li>
            <a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse" href="#students">
                <span class="me-2"><i class="bi bi-people-fill"></i></span>
                <span>Students</span>
                <span class="ms-auto">
                    <span class="right-icon">
                        <i class="bi bi-chevron-down"></i>
                    </span>
                </span>
            </a>
            <div class="collapse" id="students">
                <ul class="navbar-nav ps-3">
                    <li>
                        <a href="#" class="nav-link px-3">
                            <span class="me-2"><i class="bi bi-list"></i></span>
                            <span>Student List</span>
                        </a>
                    </li>
                    <li>
                        <a href="#" class="nav-link px-3">
                            <span class="me-2"><i class="bi bi-person-plus-fill"></i></span>
                            <span>Add Student</span>
                        </a>
                    </li>
                </ul>
            </div>
        </li>
    
```

```
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-
toggle="collapse" href="#professors">
        <span class="me-2"><i class="bi bi-person-
badge"></i></span>
        <span>Professors</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="professors">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-
list"></i></span>
                    <span>Professors List</span>
                </a>
            </li>
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-
person-plus-fill"></i></span>
                    <span>Add Professors</span>
                </a>
            </li>
        </ul>
    </div>
</li>
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-
toggle="collapse" href="#branches">
        <span class="me-2"><i class="bi bi-
book"></i></span>
        <span>Branches</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="branches">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="#" class="nav-link px-3">
```

```

        <span class="me-2"><i class="bi bi-list"></i></span>
            <span>Branch List</span>
        </a>
    </li>
    <li>
        <a href="#" class="nav-link px-3">
            <span class="me-2"><i class="bi bi-bookmark-plus-fill"></i></span>
                <span>Add Branch</span>
            </a>
        </li>
    </ul>
</div>
</li>
</ul>
</nav>
</div>
</div>
<!-- offcanvas -->
<main class="mt-5 pt-3">
    <div class="container-fluid">
        <div class="container-fluid px-4">
            <div class="row g-3 my-2">
                <div class="wrapper rounded bg-white">
                    <div class="h3 my-4">Add Student Form</div>
                    <div>
                        <div class="row">
                            <div class="col-md-6 mt-md-3 mt-3">
<label>First Name</label> <input type="text"
                                            class="form-control" required> </div>
                            <div class="col-md-6 mt-md-3 mt-3">
<label>Last Name</label> <input type="text"
                                            class="form-control" required> </div>
                            </div>
                            <div class="row">
                                <div class="col-md-6 mt-md-3 mt-3">
<label>Birthday</label> <input type="date"
                                            class="form-control" required> </div>
                                <div class="col-md-6 mt-md-3 mt-3">
<label>Gender</label>
                                            <div class="d-flex align-items-center mt-2"> <label class="option"> <input
                                                type="radio" name="radio">Male
                                            <span class="checkmark"></span> </label>
                                            <label class="option ms-4"> <input
                                                type="radio" name="radio">Female <span

```

```

                class="checkmark">></span>
</label> </div>
            </div>
        </div>
        <div class="row">
            <div class="col-md-6 mt-md-3 mt-3">
<label>Email</label> <input type="email"
                                class="form-control" required> </div>
            <div class="col-md-6 mt-md-3 mt-3">
<label>Phone Number</label> <input type="tel"
                                class="form-control" required> </div>
            </div>
            <div class="my-md-3 my-3"> <label>Branch</label>
                <select id="sub" required>
                    <option value="" selected hidden>Choose
Option</option>
                    <option value="Maths">IT</option>
                    <option value="Science">CSE</option>
                    <option value="Social">Mechanical</option>
                    <option value="Hindi">Civil</option>
                </select>
            </div>
            <div class="row">
                <div class="col-md-6 mt-md-3 mt-3">
<label>Roll No</label>
                <input type="text" class="form-control"
required>
                </div>
                <div class="col-md-6 mt-md-3 mt-3">
<label>Registration Date</label> <input type="date"
                                class="form-control" required> </div>
                </div>
                <div class="row">
                    <div class="col-md-6 mt-md-3 mt-3">
<label>Parent Name</label>
                <input type="text" class="form-control"
required>
                </div>
                <div class="col-md-6 mt-md-3 mt-3">
<label>Parent Mobile No</label> <input type="tel"
                                class="form-control" required> </div>
                </div>
                <div class="btn btn-primary mt-3 float-end">Add
Student</div>
            </div>
        </div>
    </div>
</div>

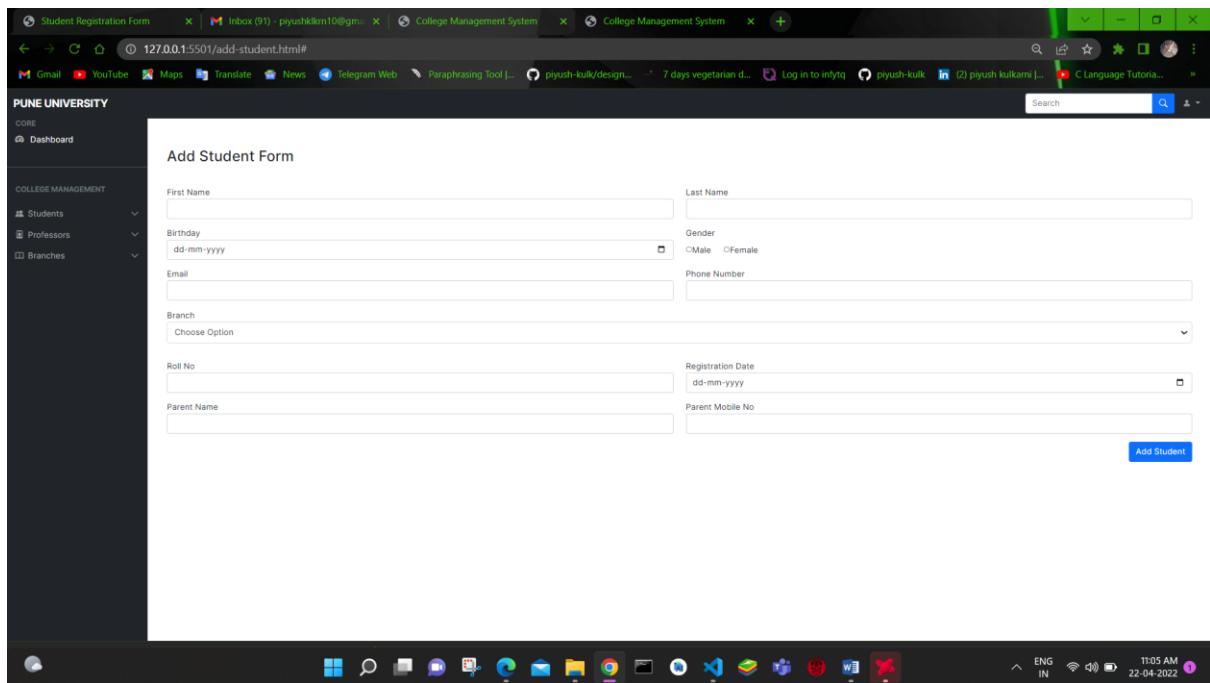
```

```

    </main>
    <script src=".js/bootstrap.bundle.min.js"></script>
    <script src=".js/jquery-3.5.1.js"></script>
</body>

</html>

```



Index.html

```

<!DOCTYPE html>
<html lang="en">

<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link rel="stylesheet" href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.4.1/font/bootstrap-icons.css" />
    <link rel="stylesheet" href="css/style.css" />
    <title>College Management System</title>
</head>

<body>
    <!-- top navigation bar -->
    <nav class="navbar navbar-expand-lg navbar-dark bg-dark fixed-top">
        <div class="container-fluid">

```

```
<button class="navbar-toggler" type="button" data-bs-toggle="offcanvas"
data-bs-target="#sidebar"
    aria-controls="offcanvasExample">
    <span class="navbar-toggler-icon" data-bs-target="#sidebar"></span>
</button>
<a class="navbar-brand me-auto ms-lg-0 ms-3 text-uppercase fw-bold"
href="#">PUNE UNIVERSITY</a>
<button class="navbar-toggler" type="button" data-bs-toggle="collapse"
data-bs-target="#topNavBar"
    aria-controls="topNavBar" aria-expanded="false" aria-label="Toggle
navigation">
    <span class="navbar-toggler-icon"></span>
</button>
<div class="collapse navbar-collapse" id="topNavBar">
    <form class="d-flex ms-auto my-3 my-lg-0">
        <div class="input-group">
            <input class="form-control" type="search" placeholder="Search"
aria-label="Search" />
            <button class="btn btn-primary" type="submit">
                <i class="bi bi-search"></i>
            </button>
        </div>
    </form>
    <ul class="navbar-nav">
        <li class="nav-item dropdown">
            <a class="nav-link dropdown-toggle ms-2" href="#" role="button"
data-bs-toggle="dropdown"
                aria-expanded="false">
                <i class="bi bi-person-fill"></i>
            </a>
            <ul class="dropdown-menu dropdown-menu-end">
                <li><a class="dropdown-item" href="#">Profile</a></li>
                <li><a class="dropdown-item" href="#">Logout</a></li>
            </ul>
        </li>
    </ul>
</div>
</div>
</nav>
<!-- top navigation bar --&gt;
<!-- offcanvas --&gt;
&lt;div class="offcanvas offcanvas-start sidebar-nav bg-dark" tabindex="-1"
id="sidebar"&gt;
    &lt;div class="offcanvas-body p-0"&gt;
        &lt;nav class="navbar-dark"&gt;
            &lt;ul class="navbar-nav"&gt;
                &lt;li&gt;
                    &lt;div class="text-muted small fw-bold text-uppercase px-3"&gt;</pre>
```

```

        CORE
    </div>
</li>
<li>
    <a href="#" class="nav-link px-3 active">
        <span class="me-2"><i class="bi bi-speedometer2"></i></span>
        <span>Dashboard</span>
    </a>
</li>
<li class="my-4">
    <hr class="dropdown-divider bg-light" />
</li>
<li>
    <div class="text-muted small fw-bold text-uppercase px-3 mb-3">
        College Management
    </div>
</li>
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#students">
        <span class="me-2"><i class="bi bi-people-fill"></i></span>
        <span>Students</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="students">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="../student-dashboard.html" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-list"></i></span>
                    <span>Student List</span>
                </a>
            </li>
            <li>
                <a href="../add-student.html" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-person-plus-
fill"></i></span>
                    <span>Add Student</span>
                </a>
            </li>
        </ul>
    </div>
</li>
<li>

```

```
<a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#professors">
    <span class="me-2"><i class="bi bi-person-badge"></i></span>
    <span>Professors</span>
    <span class="ms-auto">
        <span class="right-icon">
            <i class="bi bi-chevron-down"></i>
        </span>
    </span>
</a>
<div class="collapse" id="professors">
    <ul class="navbar-nav ps-3">
        <li>
            <a href="#" class="nav-link px-3">
                <span class="me-2"><i class="bi bi-list"></i></span>
                <span>Professors List</span>
            </a>
        </li>
        <li>
            <a href="#" class="nav-link px-3">
                <span class="me-2"><i class="bi bi-person-plus-
fill"></i></span>
                    <span>Add Professors</span>
                </a>
            </li>
        </ul>
    </div>
</li>
<li>
    <a class="nav-link px-3 sidebar-link" data-bs-toggle="collapse"
href="#branches">
        <span class="me-2"><i class="bi bi-book"></i></span>
        <span>Branches</span>
        <span class="ms-auto">
            <span class="right-icon">
                <i class="bi bi-chevron-down"></i>
            </span>
        </span>
    </a>
    <div class="collapse" id="branches">
        <ul class="navbar-nav ps-3">
            <li>
                <a href="#" class="nav-link px-3">
                    <span class="me-2"><i class="bi bi-list"></i></span>
                    <span>Branch List</span>
                </a>
            </li>
            <li>
```

```
        <a href="#" class="nav-link px-3">
            <span class="me-2"><i class="bi bi-bookmark-plus-
fill"></i></span>
            <span>Add Branch</span>
        </a>
    </li>
</ul>
</div>
</li>
</ul>
</nav>
</div>
</div>
<!-- offcanvas -->
<main class="mt-5 pt-3">
    <div class="container-fluid">
        <div class="row">
            <div class="col-md-12">
                <h4>Dashboard</h4>
            </div>
        </div>
        <div class="container-fluid px-4">
            <div class="row g-3 my-2">
                <div class="col-md-4">
                    <div class="p-3 bg-primary text-white shadow-lg d-flex justify-
content-around align-items-center rounded">
                        <div>
                            <h3 class="fs-2">10000</h3>
                            <p class="fs-5">Students</p>
                        </div>
                        <i class="bi bi-people-fill border rounded p-3" style="font-
size: 1.8rem;"></i>
                    </div>
                </div>
                <div class="col-md-4">
                    <div class="p-3 bg-danger text-white shadow-lg d-flex justify-
content-around align-items-center rounded">
                        <div>
                            <h3 class="fs-2">3000</h3>
                            <p class="fs-5">Professors</p>
                        </div>
                        <i class="bi bi-person-badge-fill border rounded p-3"
style="font-size: 2rem;"></i>
                    </div>
                </div>
                <div class="col-md-4">
```

```

        <div class="p-3 bg-success text-white shadow-lg d-flex justify-content-around align-items-center rounded">
            <div>
                <h3 class="fs-2">20</h3>
                <p class="fs-5">Branches</p>
            </div>
            <i class="bi bi-book-fill border rounded p-3" style="font-size: 1.8rem;"></i>
        </div>
    </div>
<div class="container-fluid px-4">
    <div class="row my-4 ">
        <div class="col-md-12">
            <h4>Student List</h4>
        </div>
    </div>
    <table class="table table-hover table-sm">
        <thead>
            <tr>
                <th scope="col">#Roll No</th>
                <th scope="col">Name</th>
                <th scope="col">Branch</th>
                <th scope="col">Mobile No</th>
                <th scope="col">Email</th>
                <th scope="col">Admission Date</th>
            </tr>
        </thead>
        <tbody>
            <tr>
                <td class="left">18</td>
                <td>Rajesh Bhatt</td>
                <td class="left">Mechanical</td>
                <td><a href="tel:9876543210"> 9876543210 </a></td>
                <td><a href="mailto:shuxer@gmail.com"> rajesh@gmail.com
</a></td>
                <td class="left">22 Feb 2010</td>
            </tr>
            <tr>
                <td class="left">5</td>
                <td>Pooja Patel</td>
                <td class="left">Science</td>
                <td><a href="tel:9876543210"> 9876543210 </a></td>
                <td><a href="mailto:shuxer@gmail.com"> pooja@gmail.com </a></td>
                <td class="left">27 Aug 2005</td>
            </tr>
            <tr>

```

<td class="left">15</td>	15	Sarah Smith	M.C.A.	 9876543210 	 sarah@gmail.com 	05 Jun 2011
<td class="left">23</td>	23	John Deo	M.B.B.S.	 9876543210 	 john@gmail.com 	15 Feb 2012
<td class="left">10</td>	10	Jay Soni	Arts	 9876543210 	 kenh@gmail.com 	12 Nov 2012
<td class="left">14</td>	14	Jacob Ryan	Music	 9876543210 	 johnson@gmail.com 	03 Dec 2001
<td class="left">7</td>	7	Megha Trivedi	Commerce	 9876543210 	 megha@gmail.com 	17 Mar 2013
<td class="left">18</td>	18	Rajesh	Civil	 9876543210 	 rajesh@gmail.com 	22 Feb 2000

```

        </tr>
        <tr>
            <td class="left">5</td>
            <td>Pooja Patel</td>
            <td class="left">Computer</td>
            <td><a href="tel:9876543210"> 9876543210 </a></td>
            <td><a href="mailto:shuxer@gmail.com"> pooja@gmail.com </a></td>
            <td class="left">27 Aug 2005</td>
        </tr>
        <tr>
            <td class="left">18</td>
            <td>Rajesh Bhatt</td>
            <td class="left">Mechanical</td>
            <td><a href="tel:9876543210"> 9876543210 </a></td>
            <td><a href="mailto:shuxer@gmail.com"> rajesh@gmail.com
</a></td>
                <td class="left">22 Feb 2010</td>
            </tr>
        </tbody>
    </table>
    <nav aria-label="...">
        <ul class="pagination float-end">
            <li class="page-item disabled">
                <a class="page-link">Previous</a>
            </li>
            <li class="page-item"><a class="page-link" href="#">1</a></li>
            <li class="page-item active" aria-current="page">
                <a class="page-link" href="#">2</a>
            </li>
            <li class="page-item"><a class="page-link" href="#">3</a></li>
            <li class="page-item">
                <a class="page-link" href="#">Next</a>
            </li>
        </ul>
    </nav>
</div>
</main>
<script src="./js/bootstrap.bundle.min.js"></script>
<script src="./js/jquery-3.5.1.js"></script>
</body>

</html>

```

PUNE UNIVERSITY

CORE

Dashboard

COLLEGE MANAGEMENT

Students

Professors

Branches

Dashboard

10000 Students

3000 Professors

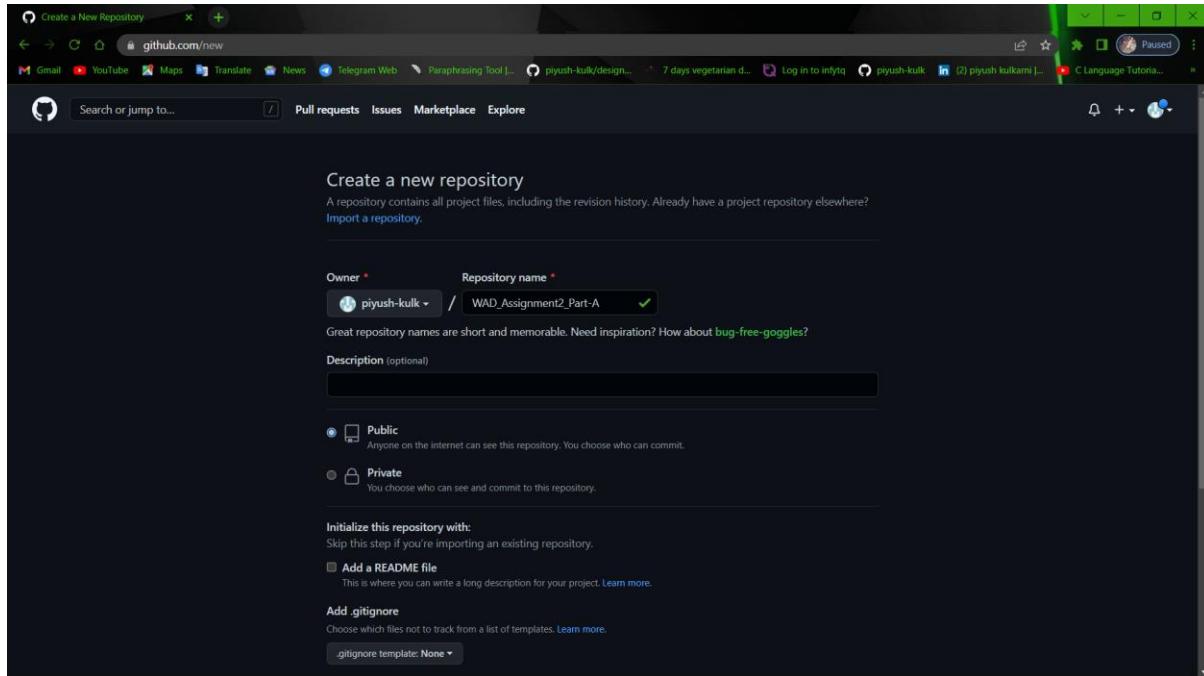
20 Branches

Student List

#Roll No	Name	Branch	Mobile No	Email	Admission Date
18	Rajesh Bhatt	Mechanical	9876543210	rajesh@gmail.com	22 Feb 2010
5	Pooja Patel	Science	9876543210	pooja@gmail.com	27 Aug 2005
15	Sarah Smith	M.C.A.	9876543210	sarah@gmail.com	05 Jun 2011
23	John Deo	M.B.B.S.	9876543210	john@gmail.com	15 Feb 2012
10	Jay Soni	Arts	9876543210	kenh@gmail.com	12 Nov 2012
14	Jacob Ryan	Music	9876543210	johnson@gmail.com	03 Dec 2001
7	Megha Trivedi	Commerce	9876543210	megha@gmail.com	17 Mar 2013
18	Rajesh	Civil	9876543210	rajesh@gmail.com	22 Feb 2000
5	Pooja Patel	Computer	9876543210	pooja@gmail.com	27 Aug 2005
18	Rajesh Bhatt	Mechanical	9876543210	rajesh@gmail.com	22 Feb 2010

Previous 1 2 3 Next

2a. Create a version control account on GitHub and use Git commands to create a repository and push your code to GitHub.



```
C:\Users\hp>git config --global user.name "Anuraag"
C:\Users\hp>git config --global user.email "arpotaar@gmail.com"
C:\Users\hp>cd "C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A"
C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git init
Initialized empty Git repository in C:/Users/hp/Downloads/FOP (1)/FOP/assignment-1A/.git/
C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git add.
git: 'add.' is not a git command. See 'git --help'.
The most similar command is
  add

C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git add .
warning: LF will be replaced by CRLF in css/bootstrap.min.css.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in css/style.css
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in js/bootstrap.bundle.min.js.
The file will have its original line endings in your working directory
warning: LF will be replaced by CRLF in js/jquery-3.5.1.js.
The file will have its original line endings in your working directory
C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git status
On branch master

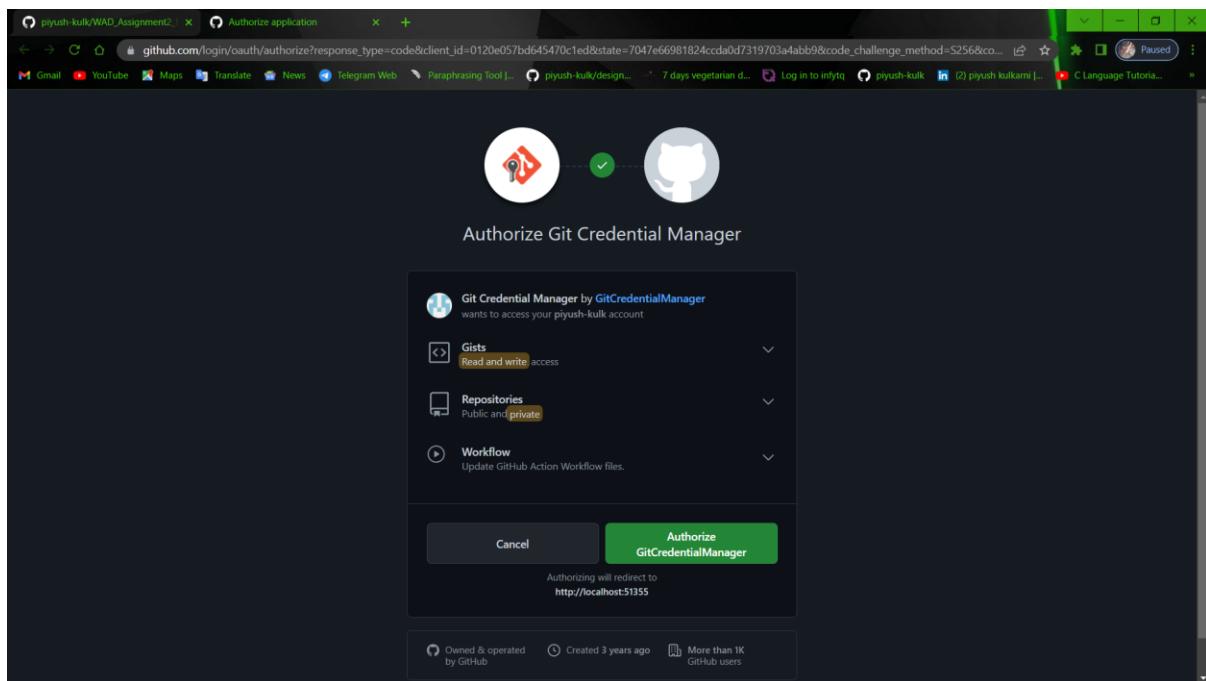
No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:  css/bootstrap.min.css
    new file:  css/bootstrap.min.css.map
    new file:  css/style.css
    new file:  display-data.html
    new file:  index.html
    new file:  js/bootstrap.bundle.min.js
    new file:  js/bootstrap.bundle.min.js.map
    new file:  js/display-data.js
    new file:  js/jquery-3.5.1.js
    new file:  js/myscript.js
```

```
C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git commit -m "Committed for second assignment"
[master (root-commit) b9818fa] Committed for second assignment
10 files changed, 11248 insertions(+)
create mode 100644 css/bootstrap.min.css
create mode 100644 css/bootstrap.min.css.map
create mode 100644 css/style.css
create mode 100644 display-data.html
create mode 100644 index.html
create mode 100644 js/bootstrap.bundle.min.js
create mode 100644 js/bootstrap.bundle.min.js.map
create mode 100644 js/display-data.js
create mode 100644 js/jquery-3.5.1.js
create mode 100644 js/myscript.js

C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git remote add origin "https://github.com/piyush-kulk/WAD_Assignment2_Part-A.git"
C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>git push -u origin master
info: please complete authentication in your browser...
Enumerating objects: 14, done.
Counting objects: 100% (14/14), done.
Delta compression using up to 12 threads
Compressing objects: 100% (14/14), done.
Writing objects: 100% (14/14), 282.15 KiB | 3.32 MiB/s, done.
Total 14 (delta 0), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), done.
To https://github.com/piyush-kulk/WAD_Assignment2_Part-A.git
 * [new branch]      master -> master
branch 'master' set up to track 'origin/master'.

C:\Users\hp\Downloads\FOP (1)\FOP\assignment-1A>
```



2b. Create Docker Container Environment (NVIDIA Docker or any other).

```
→ docker-react docker images
REPOSITORY          TAG      IMAGE ID      CREATED        SIZE
docker-react        latest   8e45c884a32e  4 weeks ago   895MB
node                8.16.0   8e45c884a32e  4 weeks ago   895MB
```

```
→ docker-react docker run -it --rm docker-react /bin/bash
root@0dd9e268bf0a:/# npm --version
6.4.1
root@0dd9e268bf0a:/# node --version
v8.16.0
```

```
root@5f3512cc902e:/usr/app# npx create-react-app my-app
npx: installed 91 in 11.674s

Creating a new React app in /usr/app/my-app.

Installing packages. This might take a couple of minutes.
Installing react, react-dom, and react-scripts...

yarn add v1.15.2
[1/4] Resolving packages...
[2/4] Fetching packages...
info fsevents@1.2.9: The platform "linux" is incompatible with this module.
info "fsevents@1.2.9" is an optional dependency and failed compatibility check. Excluding it from installation.
info fsevents@2.0.7: The platform "linux" is incompatible with this module.
info "fsevents@2.0.7" is an optional dependency and failed compatibility check. Excluding it from installation.
[3/4] Linking dependencies...
warning "react-scripts > @typescript-eslint/eslint-plugin@1.13.0" has incorrect peer dependency "eslint@^5.0.0".
warning "react-scripts > @typescript-eslint/parser@1.13.0" has incorrect peer dependency "eslint@^5.0.0".
```

The screenshot shows a code editor interface with three tabs: Dockerfile, docker-compose.yml, and App.js. The Project sidebar on the left lists files and folders for a 'my-app' project, including Dockerfile, docker-compose.yml, App.js, App.css, App.test.js, index.css, index.js, logo.svg, serviceWorker.js, .gitignore, package.json, README.md, and yarn.lock.

```

Project
  docker-react
    my-app
      node_modules
      public
      src
        App.css
        App.js
        App.test.js
        index.css
        index.js
        logo.svg
        serviceWorker.js
      .gitignore
      package.json
      README.md
      yarn.lock
    docker-compose.yml
    Dockerfile

```

Dockerfile:

```

1 import React from 'react';
2 import logo from './logo.svg';
3 import './App.css';
4
5 function App() {
6   return (
7     <div className="App">
8       <header className="App-header">
9         <img src={logo} className="App-logo" alt="logo" />
10        <p>
11          | Edit <code>src/App.js</code> and save to reload.
12        </p>
13        <a
14          className="App-link"
15          href="https://reactjs.org"
16          target="_blank"
17          rel="noopener noreferrer"
18        >
19          | Learn React
20        </a>
21      </header>
22    </div>
23  );
24}
25
26 export default App;
27

```

docker-compose.yml:

```

version: '3'
services:
  web:
    build: .
    ports:
      - "4200:4200"
    volumes:
      - .:/app
    environment:
      - NODE_ENV=development
      - PORT=4200

```

App.js:

```

import React from 'react';
import logo from './logo.svg';
import './App.css';

function App() {
  return (
    <div className="App">
      <header className="App-header">
        <img src={logo} className="App-logo" alt="logo" />
        <p>
          | Edit <code>src/App.js</code> and save to reload.
        </p>
        <a
          className="App-link"
          href="https://reactjs.org"
          target="_blank"
          rel="noopener noreferrer"
        >
          | Learn React
        </a>
      </header>
    </div>
  );
}

export default App;

```

2c. Create an Angular application that will do the following actions: Register User, Login User, Show User Data on Profile Component



AngularAssignment

localhost:4200/register

Gmail YouTube Maps Translate News Telegram Web Paraphrasing Tool piyush-kulk/design... 7 days vegetarian d... Log in to infytq piyush-kulk (2) piyush kulkarni C Language Tutoria...

Paused

MyWeb Home About Us Contact Us



Register

Name
Anuraag

Email address
arptdaar@gmail.com

Password

Gender
 Male
 Female

Select Branch
I.T

Register

Already Registered? Login [here](#)

AngularAssignment

localhost:4200/login

Gmail YouTube Maps Translate News Telegram Web P localhost:4200 says Log in to infytq piyush-kulk (2) piyush kulkarni C Language Tutoria...

Paused

MyWeb Home About Us Contact Us



Login

Email address
arptdaar@gmail.com

Password

Login

Not Registered? [Register Now](#)



User Profile

[Log out](#)

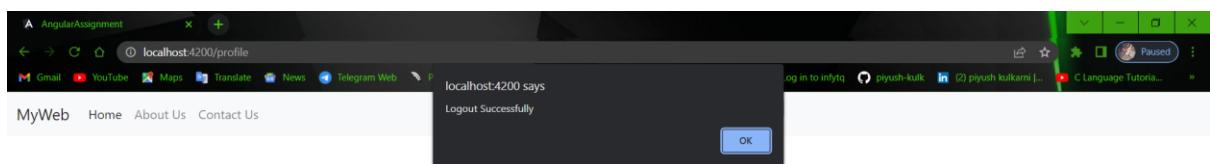
USER INFORMATION

Name -ANURAAG

Email -arpotdaar@gmail.com

Branch -IT

Gender -MALE



User Profile

[Log out](#)

USER INFORMATION

Name -ANURAAG

Email -arpotdaar@gmail.com

Branch -IT

Gender -MALE

3 a. Create a Node.JS Application that serves a static website.

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <link rel="stylesheet" href="css/bootstrap.min.css" />
    <link
      rel="stylesheet"
      href="https://cdn.jsdelivr.net/npm/bootstrap-icons@1.7.2/font/bootstrap-icons.css"
    />
    <link rel="stylesheet" href="css/style.css" />
    <title>Student Registration Form</title>
  </head>

  <body>
    <main class="mt-5 pt-3">
      <div class="container">
        <div class="container-fluid px-4">
          <div class="row g-3 my-2">
            <div class="rounded">
              <div class="h1 my-4 text-center border">Student Form</div>
              <form id="studentForm">
                <div class="border p-3">
                  <div class="row">
                    <div class="col-md-6 mt-md-3 mt-3">
                      <label>First Name</label>
                      <input
                        type="text"
                        id="firstName"
                        class="form-control"
                        required
                      />
                    </div>
                    <div class="col-md-6 mt-md-3 mt-3">
                      <label>Last Name</label>
                      <input
                        type="text"
                        id="lastName"
                        class="form-control"
                        required
                      />
                    </div>
                  </div>
                </div>
              </form>
            </div>
          </div>
        </div>
      </main>
    </body>

```

```
<div class="row">
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Birthday</label>
    <input
      type="date"
      id="dob"
      class="form-control"
      required
    />
  </div>
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Gender</label>
    <div class="d-flex align-items-center mt-2">
      <label class="option">
        <input type="radio" name="gender" value="male" />
        Male <span class="checkmark"></span>
      </label>
      <label class="option ms-4">
        <input type="radio" name="gender" value="female" />
        Female <span class="checkmark"></span>
      </label>
    </div>
  </div>
</div>
<div class="row">
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Email</label>
    <input
      type="email"
      id="email"
      class="form-control"
      required
    />
  </div>
  <div class="col-md-6 mt-md-3 mt-3">
    <label>Phone Number</label>
    <input
      type="tel"
      id="contactNo"
      class="form-control"
      required
    />
  </div>
</div>
<div class="my-md-3 my-3">
  <label>Branch</label>
  <select id="sub" required>
    <option value="" selected hidden>Choose Option</option>
```

```
        <option value="Maths">IT</option>
        <option value="Science">CSE</option>
        <option value="Social">Mechanical</option>
        <option value="Hindi">Civil</option>
    </select>
</div>
<div class="row">
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Roll No</label>
        <input
            type="text"
            id="rollno"
            class="form-control"
            required
        />
    </div>
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Registration Date</label>
        <input
            type="date"
            id="registrationDate"
            class="form-control"
            required
        />
    </div>
</div>
<div class="row">
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Parent Name</label>
        <input
            type="text"
            id="parentName"
            class="form-control"
            required
        />
    </div>
    <div class="col-md-6 mt-md-3 mt-3">
        <label>Parent Mobile No</label>
        <input
            type="tel"
            id="parentMobileNo"
            class="form-control"
            required
        />
    </div>
</div>
<div class="d-grid mt-4">
    <button
```

```

        class="btn btn-primary btn-lg"
        id="btnAddStudent"
        type="button"
      >
        Add Student
      </button>
    </div>
  </div>
</form>
</div>
</div>
</div>
</div>
</main>
<script src=".js/bootstrap.bundle.min.js"></script>
<script src=".js/jquery-3.5.1.js"></script>
<script src=".js/myscript.js"></script>
</body>
</html>

```

The screenshot shows a web browser window titled "Student Registration Form" at the URL "localhost:4000". The page displays a form with the following fields:

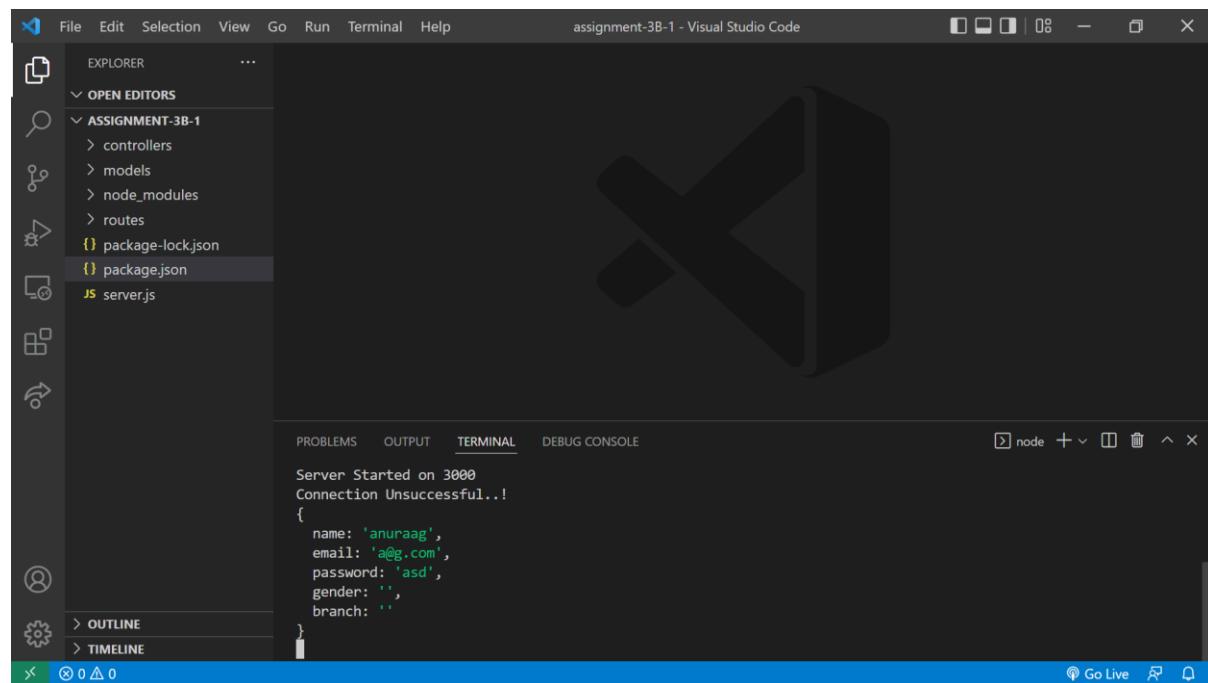
- First Name:** Anuraag
- Last Name:** Potdaar
- Birthday:** 01-01-1111
- Gender:** Male (radio button selected)
- Email:** arpotdaar@gmail.com
- Phone Number:** 9876543210
- Branch:** IT
- Roll No:** T-060
- Registration Date:** 01-02-3333
- Parent Name:** Potdaar
- Parent Mobile No:** 9876543210

At the bottom of the form is a large blue "Add Student" button.

3b. Create four APIs using Node.JS, ExpressJS, and MongoDB for CURD Operations on assignment 2-C.

Package.json

```
{  
  "name": "assignment3b-1",  
  "version": "1.0.0",  
  "description": "curd api",  
  "main": "server.js",  
  "scripts": {  
    "test": "echo \\" Error: no test specified\\ && exit 1"  
  },  
  "author": "",  
  "license": "ISC",  
  "dependencies": {  
    "body-parser": "^1.19.1",  
    "cors": "^2.8.5",  
    "express": "^4.17.2",  
    "mongoose": "^6.1.8"  
  }  
}
```



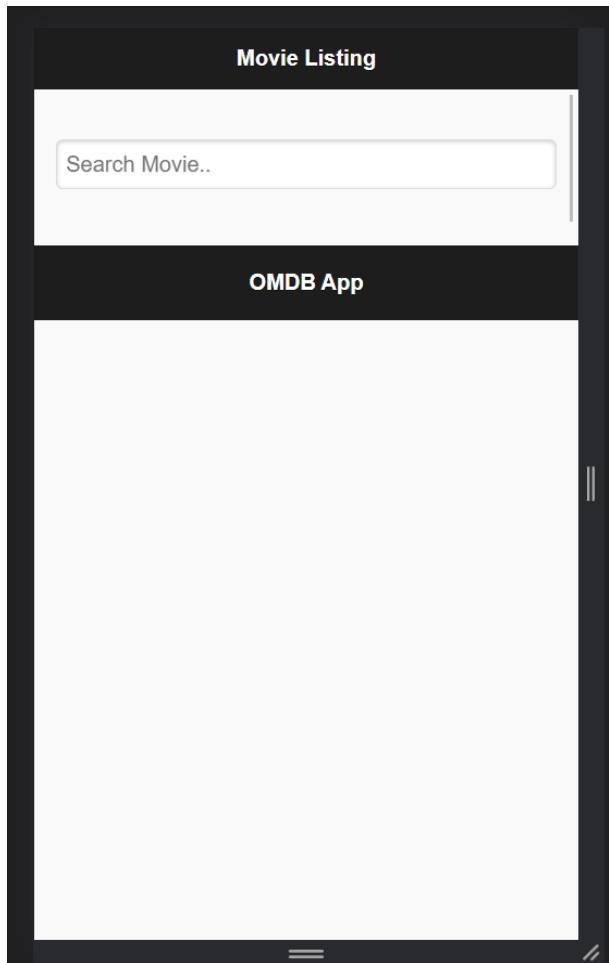
4a. Create a simple Mobile Website using jQuery Mobile.

Index.html

```
<!DOCTYPE html>
<html lang="en">
  <head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>OMDB APP</title>
    <link
      rel="stylesheet"
      href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css"
    />
    <script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-
1.4.5.min.js"></script>
  </head>
  <body>
    <div data-role="page" id="home">
      <div data-role="header" data-theme="b">
        <h1>Movie Listing</h1>
      </div>
      <div data-role="content">
        <form id="searchForm">
          <div class="ui-field-contain">
            <input
              type="text"
              name="search"
              id="search"
              placeholder="Search Movie.."
            />
          </div>
        </form>
        <br>
        <ul id="movieList" data-role="listview"></ul>
      </div>
      <div data-role="footer" style="text-align: center" data-theme="b">
        <p>OMDB App</p>
      </div>
    </div>
    <script src=".js/api.js"></script>
  </body>
</html>
```

Movie.html

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8" />
    <meta http-equiv="X-UA-Compatible" content="IE=edge" />
    <meta name="viewport" content="width=device-width, initial-scale=1.0" />
    <title>OMDB APP</title>
    <link
        rel="stylesheet"
        href="https://code.jquery.com/mobile/1.4.5/jquery.mobile-1.4.5.min.css"
    />
    <script src="https://code.jquery.com/jquery-1.11.1.min.js"></script>
    <script src="https://code.jquery.com/mobile/1.4.5/jquery.mobile-
1.4.5.min.js"></script>
</head>
<body>
    <div data-role="page" id="movie">
        <div data-role="header" data-theme="b">
            <h1>Movie Details</h1>
            <a href="index.html" class="ui-btn">Back</a>
        </div>
        <div data-role="content">
            <div id="movieTop"><br /><br /></div>
            <ul id="movieDetail" data-role="listview"></ul>
        </div>
        <div data-role="footer" style="text-align: center" data-theme="b">
            <p>OMDB App</p>
        </div>
    </div>
    <script src=".js/api.js"></script>
</body>
</html>
```



4 b. Deploy/Host Your web application on AWS VPC or AWS Elastic Beanstalk.

Screenshot of the AWS EC2 Dashboard showing the following details:

- Resources:** You are using the following Amazon EC2 resources in the US West (Oregon) region:
 - 1 Running Instances
 - 0 Dedicated Hosts
 - 1 Volumes
 - 1 Key Pairs
 - 0 Placement Groups
 - 0 Elastic IPs
 - 0 Snapshots
 - 0 Load Balancers
 - 2 Security Groups
- Create Instance:** To start using Amazon EC2 you will want to launch a virtual server, known as an Amazon EC2 instance.
- Launch Instance** button.
- Note:** Your instances will launch in the US West (Oregon) region.
- Service Health:**
 - Service Status:** US West (Oregon): No events
 - Availability Zone Status:**
 - us-west-2a: Availability zone is operating normally
 - us-west-2b: Availability zone is operating normally
 - us-west-2c: Availability zone is operating normally
 - us-west-2d: Availability zone is operating normally
- Scheduled Events:** US West (Oregon): No events
- AWS Marketplace:** Find free software trial products in the AWS Marketplace from the EC2 Launch Wizard. Or try these popular AMIs:
 - Barracuda CloudGen Firewall for AWS - PAYG
 - Rating: ★★★★☆
 - Starting from \$0.60/hr or from \$4,599/yr (12% savings) for software + AWS usage fees
 - [View all Infrastructure Software](#)
 - Matillion ETL for Amazon Redshift
 - By Matillion
 - Rating: ★★★★☆
 - Starting from \$1.37/hr or from \$9,950/yr (17% savings) for software + AWS usage fees
 - [View all Business Software](#)

Screenshot of the AWS EC2 Step 2: Choose an Instance Type page:

Step 2: Choose an Instance Type

Filter by: All instance types Current generation Show/Hide Columns

Currently selected: t2.micro (Variable ECUs, 1 vCPUs, 2.5 GHz, Intel Xeon Family, 1 GiB memory, EBS only)

Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	EBS-Optimized Available	Network Performance	IPv6 Support
General purpose	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
General purpose	t2.micro <small>Free tier eligible</small>	1	1	EBS only	-	Low to Moderate	Yes
General purpose	t2.small	1	2	EBS only	-	Low to Moderate	Yes
General purpose	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
General purpose	t2.large	2	8	EBS only	-	Low to Moderate	Yes
General purpose	t2.xlarge	4	16	EBS only	-	Moderate	Yes
General purpose	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
General purpose	t3a.nano	2	0.5	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.micro	2	1	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.small	2	2	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.medium	2	4	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.large	2	8	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.xlarge	4	16	EBS only	Yes	Up to 5 Gigabit	Yes
General purpose	t3a.2xlarge	8	32	FRS only	Yes	Up to 5 Gigabit	Yes

Buttons at the bottom: Cancel, Previous, **Review and Launch**, Next: Configure Instance Details

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of Instances	<input type="text" value="1"/>	Launch into Auto Scaling Group
Purchasing option	<input type="checkbox"/> Request Spot instances	
Network	vpc-45f99d20 (default) Create new VPC	
Subnet	No preference (default subnet in any Availability Zone) Create new subnet	
Auto-assign Public IP	Use subnet setting (Enable)	
Placement group	<input type="checkbox"/> Add instance to placement group	
Capacity Reservation	<input type="checkbox"/> Open	Create new Capacity Reservation
IAM role	<input type="text" value="None"/> Create new IAM role	
Shutdown behavior	<input type="radio"/> Stop <input type="radio"/> Protect against accidental termination	
Enable termination protection	<input type="checkbox"/>	
Monitoring	<input type="checkbox"/> Enable CloudWatch detailed monitoring <small>Additional charges apply.</small>	
Tenancy	<input type="radio"/> Shared - Run a shared hardware instance <small>Additional charges will apply for dedicated tenancy.</small>	
Elastic Inference	<input type="checkbox"/> Add an Elastic Inference accelerator <small>Additional charges apply.</small>	
T2/T3 Unlimited	<input type="checkbox"/> Enable <small>Additional charges may apply</small>	

[Advanced Details](#)

[Cancel](#) [Previous](#) **Review and Launch** [Next: Add Storage](#)

Step 4: Add Storage

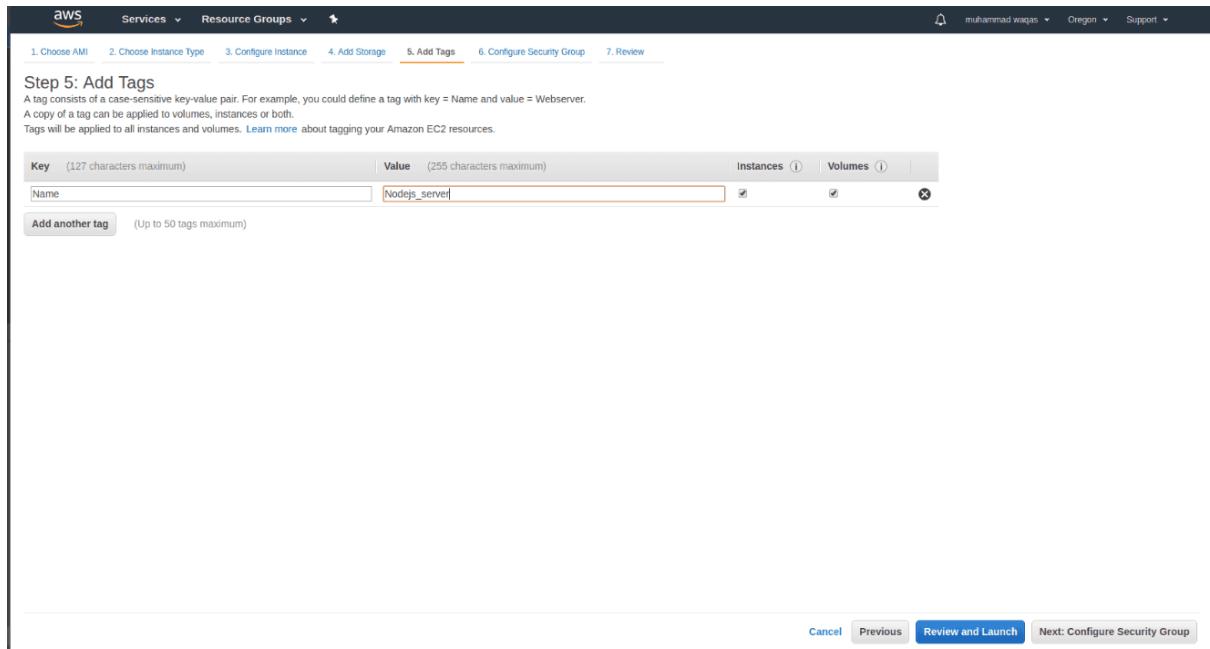
Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type	Device	Snapshot	Size (GiB)	Volume Type	IOPS	Throughput (MB/s)	Delete on Termination	Encryption
Root	/dev/sda1	snap-0ba61120c12fdc251	<input type="text" value="8"/>	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

[Add New Volume](#)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

[Cancel](#) [Previous](#) **Review and Launch** [Next: Add Tags](#)

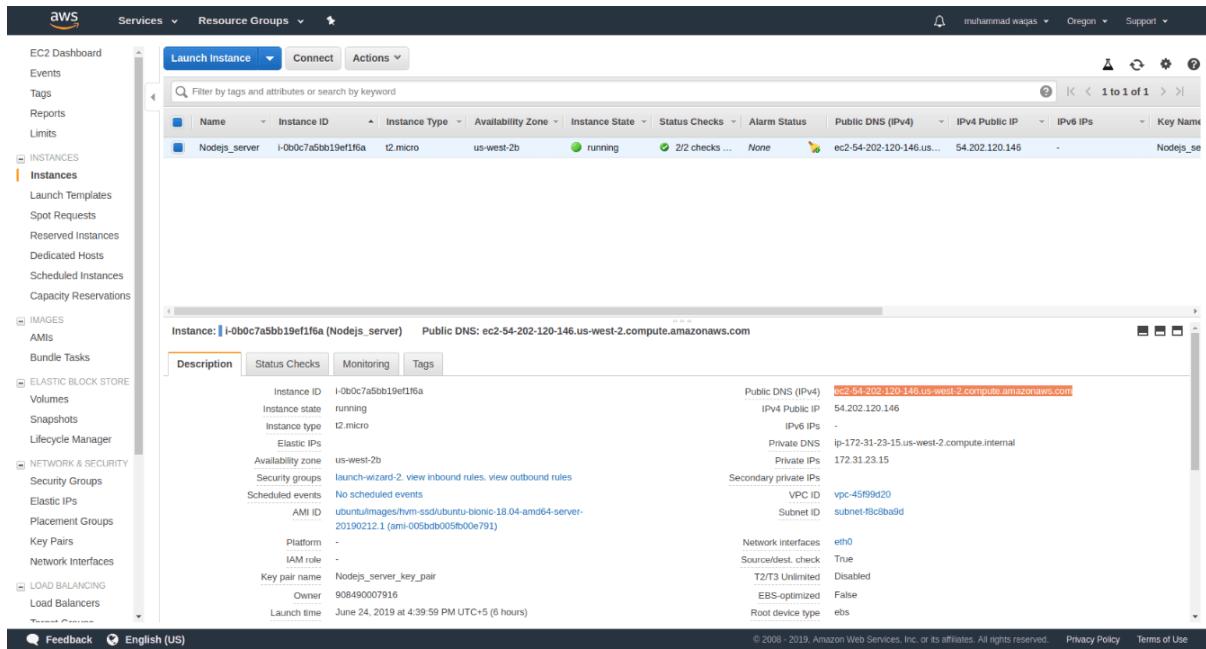


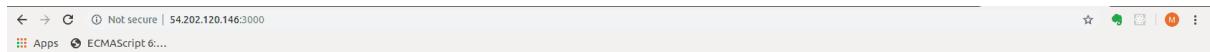
```
ubuntu@ip-172-31-23-15: ~
File Edit View Search Terminal Help
Selecting previously unselected package libpython2.7-stdlib:amd64.
Preparing to unpack .../3-libpython2.7-stdlib_2.7.15-4ubuntu4~18.04_amd64.deb ...
Unpacking libpython2.7-stdlib:amd64 (2.7.15-4ubuntu4~18.04) ...
Selecting previously unselected package python2.7.
Preparing to unpack .../4-python2.7_2.7.15-4ubuntu4~18.04_amd64.deb ...
Unpacking python2.7 (2.7.15-4ubuntu4~18.04) ...
Selecting previously unselected package libpython-stdlib:amd64.
Preparing to unpack .../5-libpython-stdlib_2.7.15-rc1-1_amd64.deb ...
Unpacking libpython-stdlib:amd64 (2.7.15-rc1-1) ...
Setting up libpython2.7-minimal:amd64 (2.7.15-4ubuntu4~18.04) ...
Setting up python2.7-minimal (2.7.15-4ubuntu4~18.04) ...
Linking and byte-compiling packages for runtime python2.7...
Setting up python-minimal (2.7.15-rc1-1) ...
Selecting previously unselected package python.
(Reading database ... 57322 files and directories currently installed.)
Preparing to unpack .../python_2.7.15~rc1-1_amd64.deb ...
Unpacking python (2.7.15~rc1-1) ...
Selecting previously unselected package nodejs.
Preparing to unpack .../nodejs_12.4.0-1nodesource1_amd64.deb ...
Unpacking nodejs (12.4.0-1nodesource1) ...
Processing triggers for mime-support (3.60ubuntu1) ...
Setting up nodejs (12.4.0-1nodesource1) ...
Processing triggers for man-db (2.8.3-2ubuntu0.1) ...
Setting up libpython2.7-stdlib:amd64 (2.7.15-4ubuntu4~18.04) ...
Setting up python2.7 (2.7.15-4ubuntu4~18.04) ...
Setting up libpython-stdlib:amd64 (2.7.15-rc1-1) ...
Setting up python (2.7.15-rc1-1) ...
ubuntu@ip-172-31-23-15:~$ node -v
v12.4.0
ubuntu@ip-172-31-23-15:~$
```

```

ubuntu@ip-172-31-23-15: ~/node-basics
File Edit View Search Terminal Help
server is running on port 3000
Mongoose Connection Error: Error: connect ECONNREFUSED 127.0.0.1:27017
    at TCPConnectWrap.afterConnect [as oncomplete] (net.js:1054:14) {
  errno: 'ECONNREFUSED',
  code: 'ECONNREFUSED',
  syscall: 'connect',
  address: '127.0.0.1',
  port: 27017
}
^C
ubuntu@ip-172-31-23-15:~/node-basics$ ^C
ubuntu@ip-172-31-23-15:~/node-basics$ git pull origin master
remote: Counting objects: 3, done.
remote: Compressing objects: 100% (3/3), done.
remote: Total 3 (delta 2), reused 0 (delta 0)
Unpacking objects: 100% (3/3), done.
From https://bitbucket.org/aemwaqas60/node-basics
 * branch            master      -> FETCH_HEAD
   ba4f828..018c84d  master      -> origin/master
Updating ba4f828..018c84d
Fast-forward
 app.js | 4 +--- 
 1 file changed, 2 insertions(+), 2 deletions(-)
ubuntu@ip-172-31-23-15:~/node-basics$ node app.js
Morgan Enabled...
Application name: My Express App - Development
Mail server name: Development-mail-server
server is running on port 3000

```





This is first message using pug view engine

The screenshot shows the AWS EC2 instance launch wizard at Step 6: Configure Security Group. The page title is "Step 6: Configure Security Group". It includes a warning about allowing all IP addresses to access the instance. The security group name is "launch-wizard-2" and the description is "launch-wizard-2 created 2019-06-24T16:33:12.242+05:00". The security group table lists three rules:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop
HTTP	TCP	80	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop
HTTPS	TCP	443	Custom 0.0.0.0/0, ::/0	e.g. SSH for Admin Desktop

Warning: Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Buttons at the bottom include "Cancel", "Previous", and "Review and Launch".

AWS Services Resource Groups Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Ubuntu Server 18.04 LTS (HVM), SSD Volume Type - ami-005bdb005fb00e791

Free tier Ubuntu Server 18.04 LTS (HVM).EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	Variable	1	1	EBS only	-	Low to Moderate

Security Groups

Security group name: launch-wizard-2
Description: launch-wizard-2 created 2019-06-24T10:33:12Z+05:00

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	
HTTP	TCP	80	0.0.0.0/0	
HTTP	TCP	80	::/0	
HTTPS	TCP	443	0.0.0.0/0	
HTTPS	TCP	443	::/0	

Cancel Previous Launch

```
ubuntu@ip-172-31-23-15: ~/node-basics
File Edit View Search Terminal Help
checkout  Switch branches or restore working tree files
commit    Record changes to the repository
diff      Show changes between commits, commit and working tree, etc
merge    Join two or more development histories together
rebase   Reapply commits on top of another base tip
tag      Create, list, delete or verify a tag object signed with GPG

collaborate (see also: git help workflows)
fetch     Download objects and refs from another repository
pull      Fetch from and integrate with another repository or a local branch
push      Update remote refs along with associated objects

'git help -a' and 'git help -g' list available subcommands and some
concept guides. See 'git help <command>' or 'git help <concept>'
to read about a specific subcommand or concept.
ubuntu@ip-172-31-23-15:~$ git clone https://aemwaqas60@bitbucket.org/aemwaqas60/node-basics.git
Cloning into 'node-basics'...
Password for 'https://aemwaqas60@bitbucket.org':
ubuntu@ip-172-31-23-15:~$ ^C
ubuntu@ip-172-31-23-15:~$ ^C
ubuntu@ip-172-31-23-15:~$ git clone https://aemwaqas60@bitbucket.org/aemwaqas60/node-basics.git
Cloning into 'node-basics'...
remote: Counting objects: 53, done.
remote: Compressing objects: 100% (45/45), done.
remote: Total 53 (delta 7), reused 0 (delta 0)
Unpacking objects: 100% (53/53), done.
ubuntu@ip-172-31-23-15:~$ cd node-basics/
ubuntu@ip-172-31-23-15:~/node-basics$ ls
Events.js app.js config controllers middleware models package-lock.json package.json public routes views
ubuntu@ip-172-31-23-15:~/node-basics$
```