<u>LAB ASSIGNMENT NO – 03</u>

<u>Aim:</u> Develop a web page using the Bootstrap framework. Grid system, Forms, Buttons, Navbar, Breadcrumb, Jumbotron should be used.

Theory:

Bootstrap is a widely-used open-source front-end framework for web development, providing a collection of HTML, CSS, and JavaScript components and tools that enable developers to build responsive, mobile-first websites with ease.

• <u>Grid System:</u> Bootstrap Grid System allows up to 12 columns across the page. You can use each of them individually or merge them together for wider columns. You can use all combinations of values summing up to 12. You can use 12 columns each of width 1, or use 4 columns each of width 3 or any other combination.

There are 5 classes in Bootstrap 4 grid system.

- 1. .col- (extra small devices screen width less than 576px)
- 2. .col-sm- (small devices screen width equal to or greater than 576px)
- 3. .col-md- (medium devices screen width equal to or greater than 768px)
- 4. .col-lg- (large devices screen width equal to or greater than 992px)
- 5. .col-xl- (xlarge devices screen width equal to or greater than 1200px)
- <u>Forms</u>: The form element is used to collect input from user by using fields such as checkboxes, radio buttons, or text fields etc. Bootstrap provides three types of form layouts:
 - 1. Vertical form (this is default)
 - 2. Horizontal form
 - 3. Inline form

Standard rules for all three form layouts:

- 1. Wrap labels and form controls in <div class="form-group"> (needed for optimum spacing)
- 2. Add class .form-control to all textual <input>, <textarea>, and <select> elements
- <u>Buttons</u>: Bootstrap includes several predefined button styles, each serving its own semantic purpose, with a few extras thrown in for more control.
 - 1. <button type="button" class="btn btn-primary">Primary</button>
 - 2. <button type="button" class="btn btn-secondary">Secondary</button>
 - 3. <button type="button" class="btn btn-success">Success</button>
 - 4. <button type="button" class="btn btn-danger">Danger</button>
 - 5. <button type="button" class="btn btn-warning">Warning</button>
 - 6. <button type="button" class="btn btn-info">Info</button>
 - 7. <button type="button" class="btn btn-light">Light</button>
 - 8. <button type="button" class="btn btn-dark">Dark</button>
 - 9. <button type="button" class="btn btn-link">Link</button>
- Navbar: 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 <nav class="navbar navbar-default">.

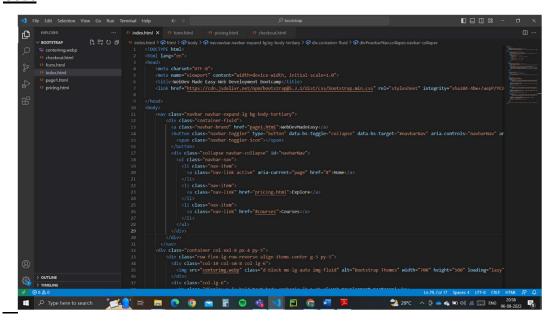
- 1. Basic Navbar
- 2. Inverted Navbar
- 3. Coloured Navigation Bar
- 4. Right-Aligned Navbar
- 5. Fixed Navigation Bar
- Breadcrumb: A breadcrumb is a navigational method that shows the user where they are relative to the current page on a website or application. An accessible website with many pages or a complicated hierarchy can benefit greatly from breadcrumb navigation. Bootstrap allows users to easily create static breadcrumbs layouts by adding the class .breadcrumb to ordered or unordered lists, as demonstrated in the following example. Utility classes can be used to decorate the breadcrumbs.
- Jumbotron: A Bootstrap jumbotron specifies a big box for getting extra attention to some special content or information. It is displayed as a grey box with rounded corners. It can also enlarge the font sizes of the text inside it.

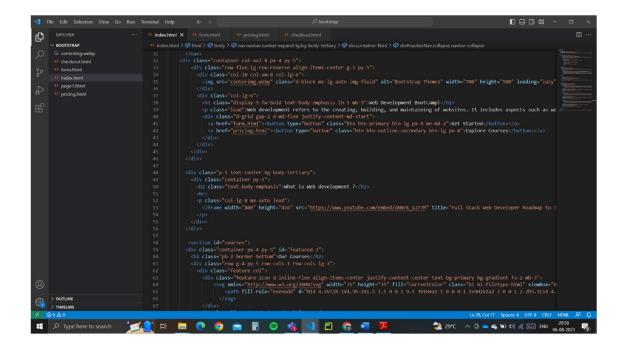
You can put any valid HTML or other Bootstrap elements/ classes inside a jumbotron. The class .jumbotron within the <div> element is used to create a jumbotron.

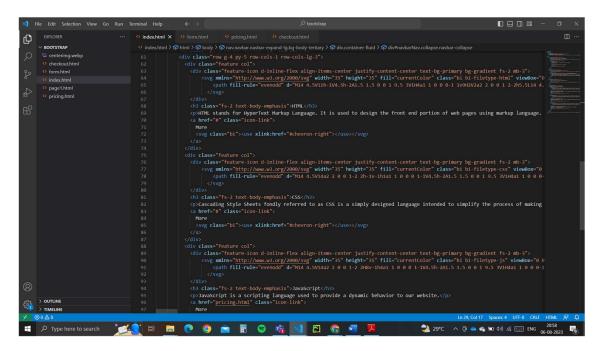
The Inside container is used in jumbotron, if you want the jumbotron to not extend to the edge of the screen. Put the jumbotron inside the <div class="container">.

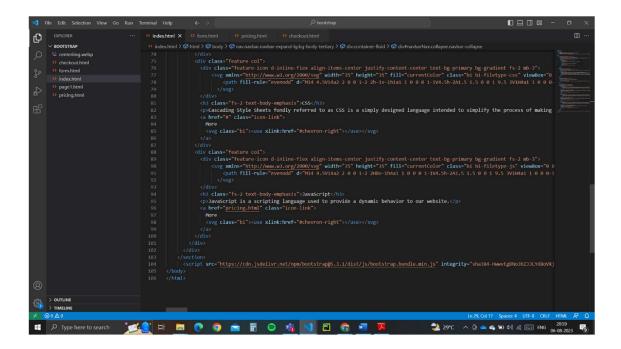
<u>Conclusion:</u> We learnt that the grid system provided by bootstrap enabled us to create a flexible and organized layout, simplifying the structuring of content and improving the overall visual appeal. Additionally, bootstrap's extensive library of CSS classes allowed for easy customization, speeding up the development process and reducing the need for writing repetitive code.

Code: index.html-

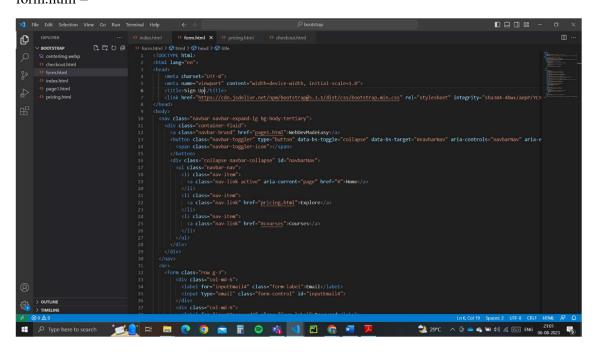




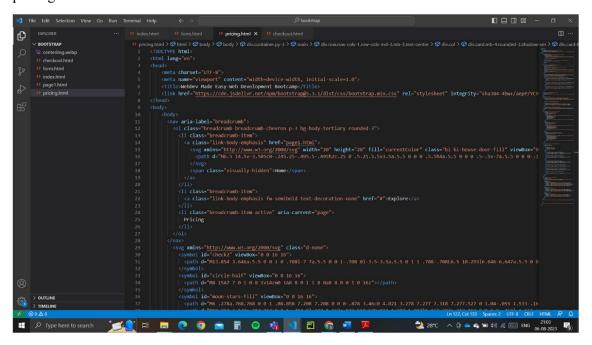


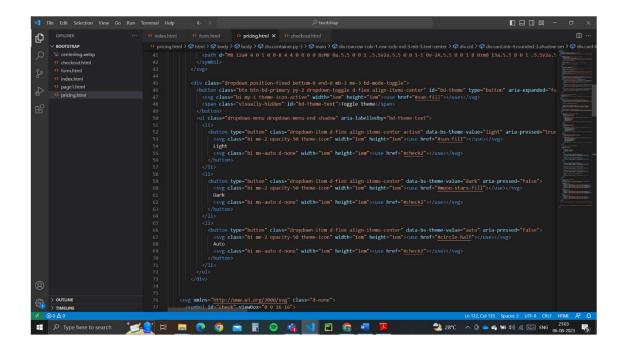


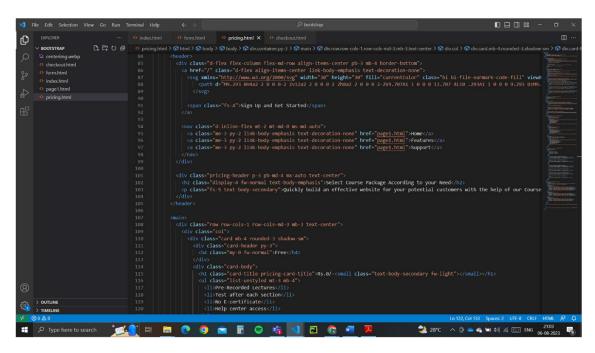
form.html -

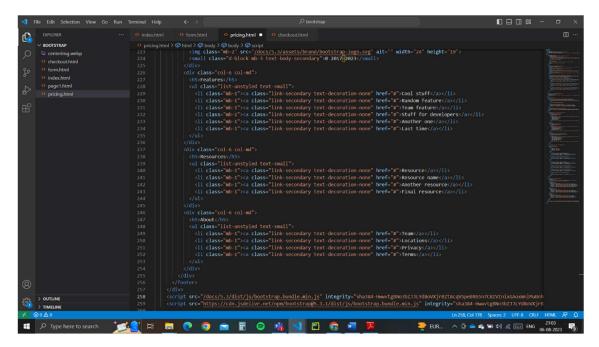


pricing.html -

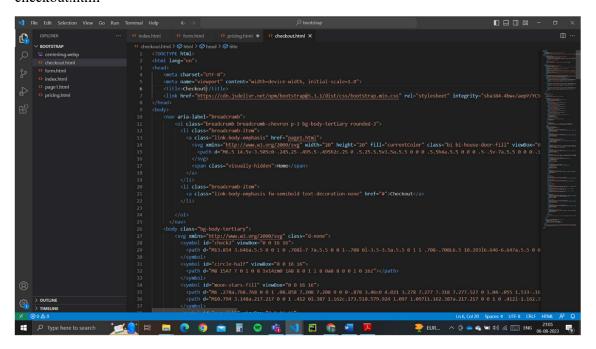


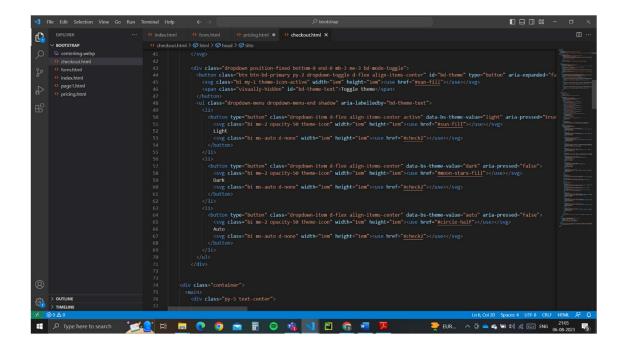


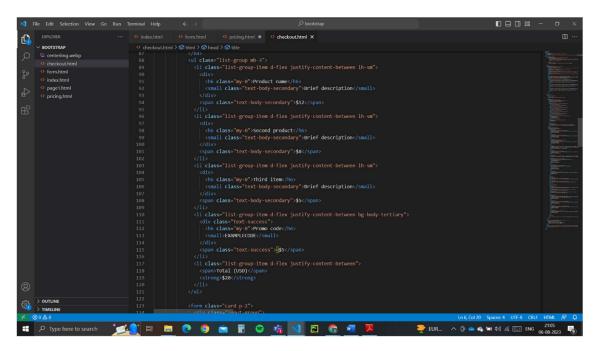


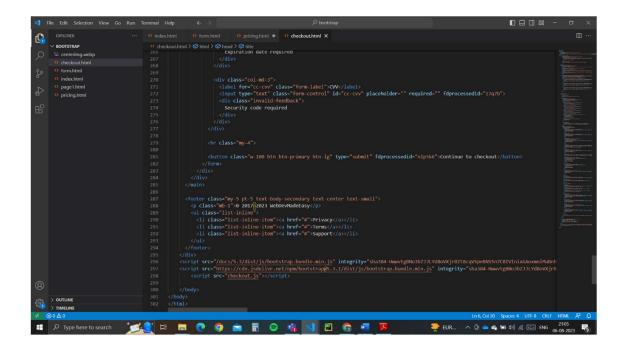


checkout.html -

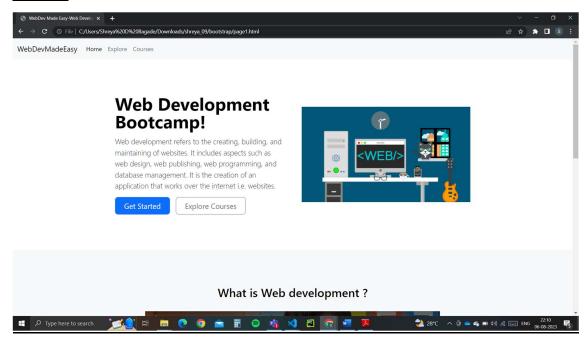


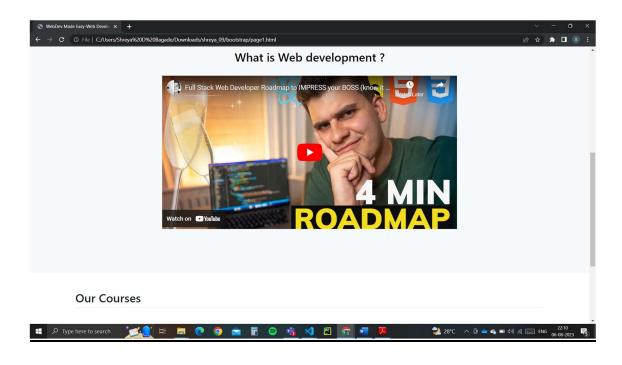


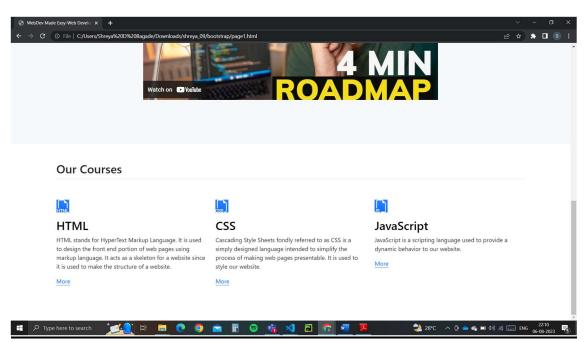


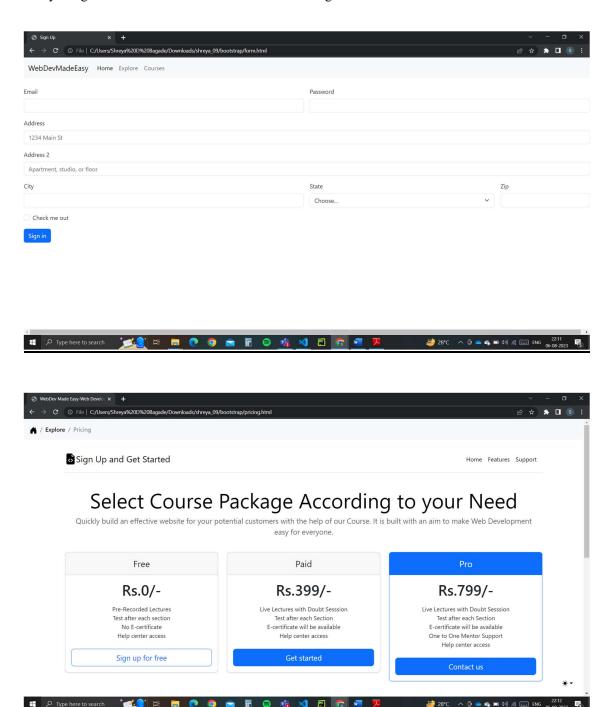


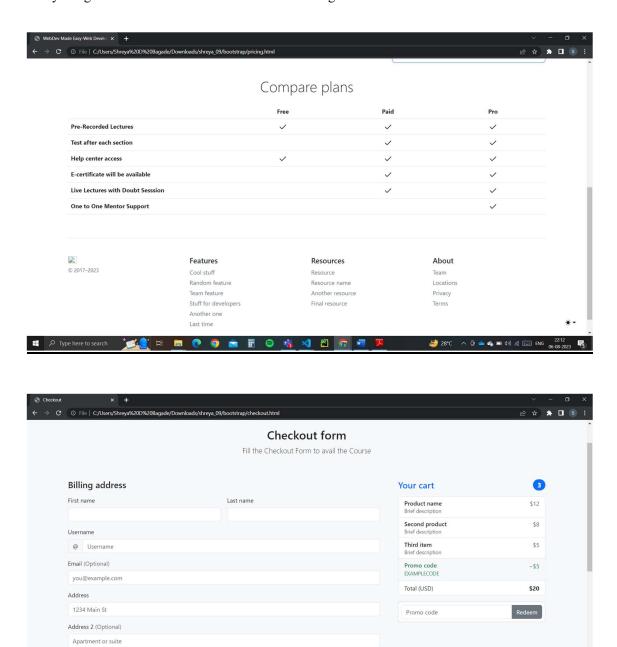
Output:











<u>Lab Outcome</u>: LO3- Construct responsive websites using Bootstrap.

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