

**S. B. JAIN INSTITUTE OF TECHNOLOGY, MANAGEMENT & RESEARCH, NAGPUR.**

Practical No. 9

**Aim:** Apply the knowledge of HTML and Bootstrap CSS v5.1.3 & design a webpage by using following components: NavBar, Carousel, Cards, Breadcrumb, Modal, Form-Control, etc.

**Name of Student: Roll No.: Semester/Year: Academic Session: Date of Performance: Date of Submission:**

**AIM:** Apply the knowledge of HTML and Bootstrap CSS to design a Webpage by using following components: Cards, Breadcrumb, Modal, Form-Control, Pagination, Accordion, Alerts etc and contents: Table, Typography etc.

# OBJECTIVE/EXPECTED LEARNING OUTCOME:

The objectives and expected learning outcome of this practical are:

* To apply the knowledge of Bootstrap
* To be able to create a Cards, Pagination, Accordion, Alerts etc
* To be able to create contents: Table, Typography etc.

# THEORY:

**What is Bootstrap?**

Bootstrap is a front-end framework used to create modern websites and web apps. It's **open- source** and free to use. Bootstrap also supports JavaScript extensions.It is the most popular HTML, CSS, and JavaScript framework for developing responsive, mobile-first websites. Bootstrap is completely free to download and use.

# Accordion:

The Bootstrap accordion is a component that organizes content within collapsable items. Accordion allows the display of only one collapsed item at a time. Accordions can toggle through a number of text blocks with a single click, and that greatly enhances the UX of your project.

# Pagination:

Bootstrap pagination is a component used to indicate the existence of a series of related content across multiple pages and enables navigation across them. We use a large block of connected links for our pagination, making links hard to miss and easily scalable—all while providing large hit areas.

# Typography:

Typography is a Bootstrap 5 component for designing and formatting text content. It is used to produce customized headers, inline subheadings, lists, paragraphs, aligning, and adding additional design-oriented font styles, among other things.

# Breadcrumb:

Indicate the current page’s location within a navigational hierarchy that automatically adds separators via CSS.

# Cards:

A **card** is a flexible and extensible content container. It includes options for headers and footers, a wide variety of content, contextual background colors, and powerful display options. If you’re familiar with Bootstrap 3, cards replace our old panels, wells, and thumbnails. Similar functionality to those components is available as modifier classes for cards.

Cards are built with as little markup and styles as possible, but still manage to deliver a ton of control and customization. Built with flexbox, they offer easy alignment and mix well with other Bootstrap components. They have no margin by default, so use [spacing utilities](https://getbootstrap.com/docs/5.0/utilities/spacing/) as needed.

# Form controls:

Give textual form controls like <input>s and <textarea>s an upgrade with custom styles, sizing, focus states, and more.

# Alert:

Provide contextual feedback messages for typical user actions with the handful of available and flexible alert messages.

Alerts are available for any length of text, as well as an optional close button. For proper styling, use one of the eight **required** contextual classes (e.g., .alert-success).

# Table:

Due to the widespread use of <table> elements across third-party widgets like calendars and date pickers, Bootstrap’s tables are **opt-in**. Add the base class .table to any <table>, then extend with our optional modifier classes or custom styles. All table styles are not inherited in Bootstrap, meaning any nested tables can be styled independent from the parent.

# Model:

* + 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. Nested modals aren’t supported as we believe them to be poor user experiences.
  + Modals use position: fixed, which can sometimes be a bit particular about its rendering. Whenever possible, place your modal HTML in a top-level position to avoid potential interference from other elements. You’ll likely run into issues when nesting a .modal within another fixed element.

# CONCLUSION:

**DISCUSSION QUESTIONS:**

* Explain Accordion?
* Explain Typography?
* What is pagination?
* Explain blackquotes?

# REFERENCE:

* [https://getbootstrap.coms](https://getbootstrap.coms/)
* <https://www.w3schools.com/bootstrap5/>
* [*https://getbootstrap.com/docs/5.2/components/accordion/*](https://getbootstrap.com/docs/5.2/components/accordion/)
* [*https://getbootstrap.com/docs/5.2/components/typography/*](https://getbootstrap.com/docs/5.2/components/typography/)
* [*https://getbootstrap.com/docs/5.2/components/table/*](https://getbootstrap.com/docs/5.2/components/table/)