Experiment 05

Aim: Create responsive webpage to implement Grid system, Forms, Button, Navbar, Breadcrumb, Jumbotron using bootstrap

Requirements: Chrome, VsCode

Theory:

Bootstrap is a free and open-source CSS framework directed at responsive, mobile-first front-end web development. It contains CSS- and (optionally) JavaScript-based design templates for typography, forms, buttons, navigation, and other interface components.

Bootstrap's grid system uses a series of containers, rows, and columns to layout and align content. It's built with flexbox and is fully responsive.

The Bootstrap grid system has four classes:

- xs (for phones - screens less than 768px wide)
- sm (for tablets - screens equal to or greater than 768px wide)
- md (for small laptops - screens equal to or greater than 992px wide)
- lg (for laptops and desktops - screens equal to or greater than 1200px wide)

The classes above can be combined to create more dynamic and flexible layouts.

- Some Bootstrap grid system rules:
- Rows must be placed within a .container (fixed-width) or .container-fluid (full-width) for proper alignment and padding
- Use rows to create horizontal groups of columns
- Content should be placed within columns, and only columns may be immediate children of rows
- Predefined classes like. row and. col-sm-4 are available for quickly making grid layouts
- Columns create gutters (gaps between column content) via padding. That padding is offset in rows for the first and last column via negative margin on. rows
- Grid columns are created by specifying the number of 12 available columns you wish to span. For example, three equal columns would use three. col-sm-4
- Column widths are in percentage, so they are always fluid and sized relative to their parent element

Bootstrap provides three types of form layouts:

- Vertical form (this is default)
- Horizontal form
- Inline form

Standard rules for all three form layouts:

- Wrap labels and form controls in <div class="form-group"> (needed for optimum spacing)
- Add class. form-control to all textual <input>, <textarea>, and <select> elements

Bootstrap provides different styles of buttons: Basic Default Primary Success Info Warning Danger Link

To achieve the button styles above, Bootstrap has the following classes:

- .btn
- .btn-default
- .btn-primary
- .btn-success
- .btn-info
- .btn-warning
- .btn-danger
- .btn-link

A navigation bar is a navigation header that is placed at the top of the page:

WebSiteName   Home   Page 1   Page 2

With Bootstrap, a navigation bar can extend or collapse, depending on the screen size.
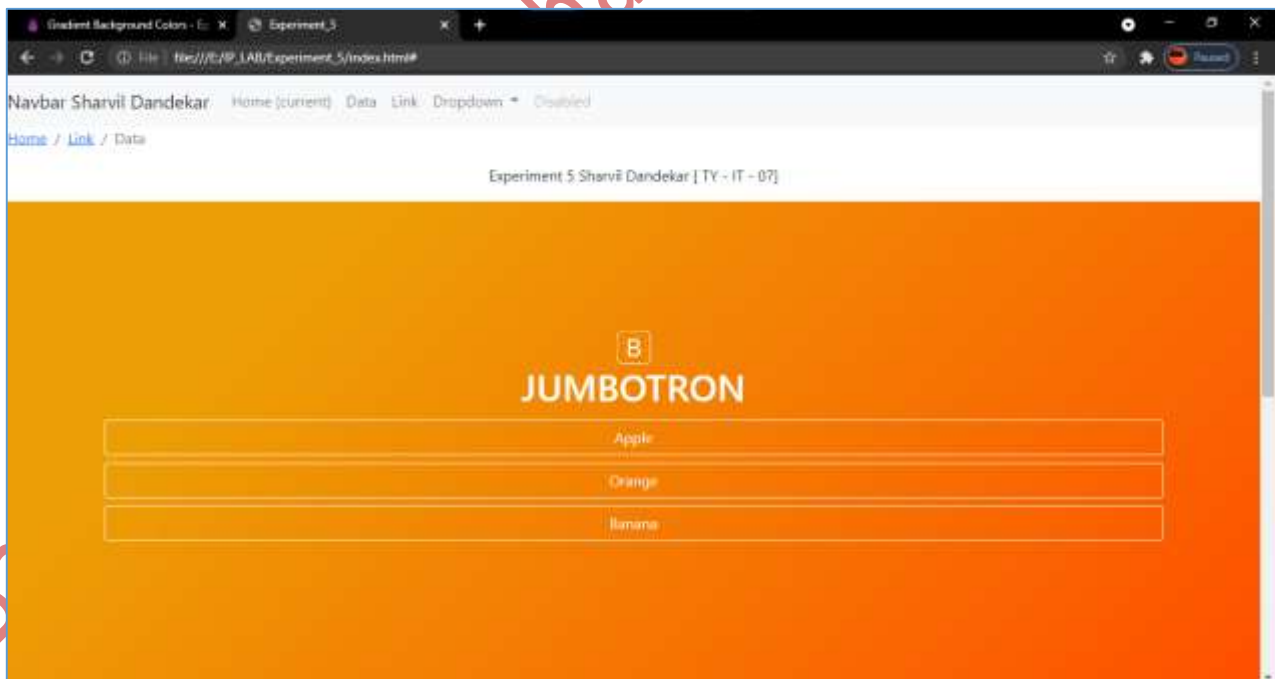
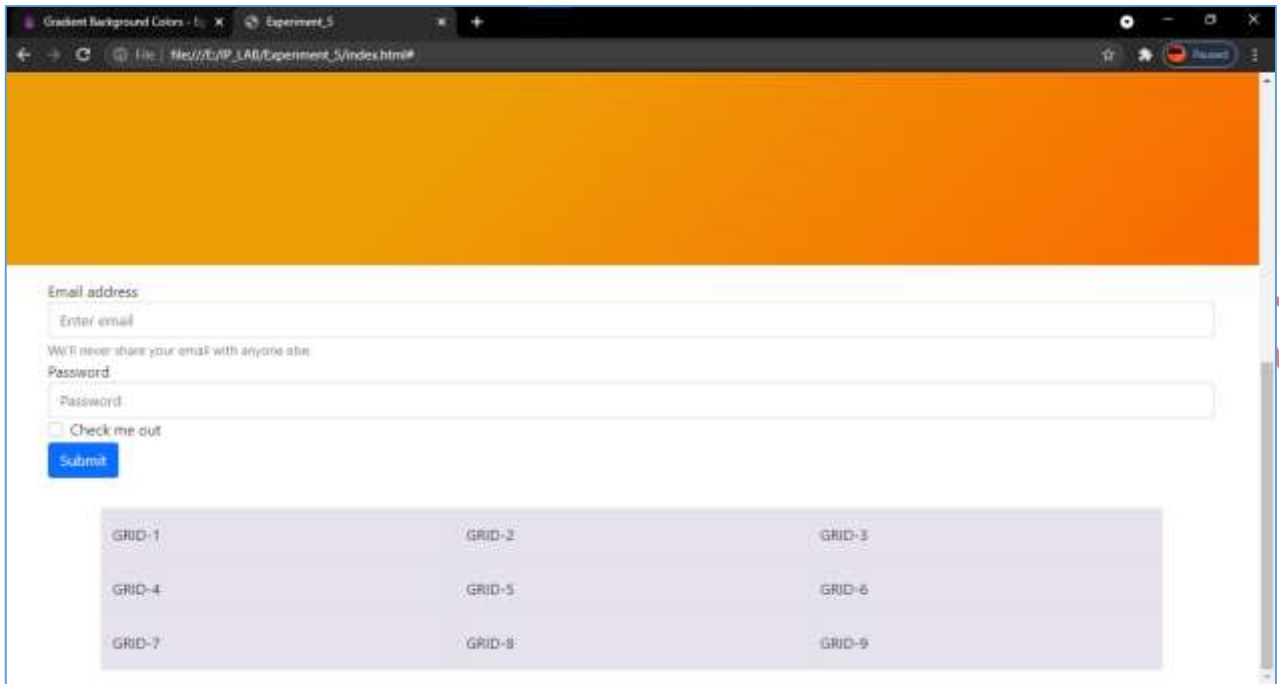A standard navigation bar is created with <nav class="navbar navbar-default">.

A breadcrumb navigation provide links back to each previous page the user navigated through, and shows the user's current location in a website.
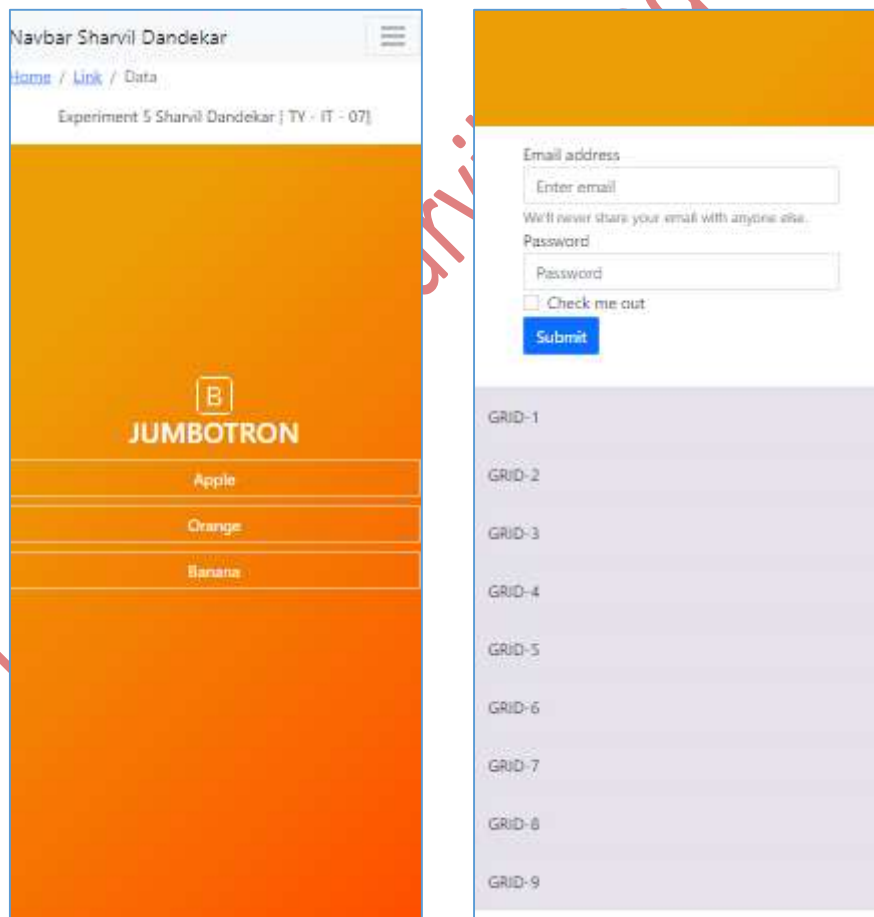
Home / Pictures / Summer 15 / Italy

A jumbotron indicates a big grey box for calling extra attention to some special content or information.

Output:

MOBILE

Conclusion: With bootstrap 5 we can make user Friendly and responsive UI of webpages which adjust itself in all devices in beautiful way.

References: https://www.w3schools.com