SEMINAR REPORT

ON

HTML5 AND BOOTSTRAP

HTML5

**HTML 5** (formerly spelled **HTML5**) is a markup language used for structuring and presenting content on the World Wide Web. It is the fifth and current major version of the [HTML](https://en.wikipedia.org/wiki/HTML) standard, and subsumes [XHTML](https://en.wikipedia.org/wiki/XHTML). It currently exists in two standardized forms: *HTML 5.2 Recommendation* by the [World Wide Web Consortium](https://en.wikipedia.org/wiki/World_Wide_Web_Consortium) (W3C, a broad coalition of organizations), intended primarily for Web content developers; and *HTML Living Standard*by [WHATWG](https://en.wikipedia.org/wiki/WHATWG) (a small consortium of four browser vendors), intended primarily for browser developers, though it also exists in an abridged Web developer version. There are minor conflicts between the two groups' specifications.

Below is a non exhaustive list of features that tend to be labelled as "HTML5" in the medias:

* + New structural elements (<header>, <footer>, <nav> and more)
  + Forms 2.0 and client-side validation
  + Native browser support for audio and video (<video>, <audio>)
  + Canvas API and SVG
  + Web storage
  + Offline applications
  + Geolocation
  + Drag & Drop
  + Web Workers
  + New communications API (Server Sent Events, Web Sockets, …)

BOOTSTRAP

**Bootstrap** is a free and open-source front-end framework for designing websites and web applications. It contains HTML- and CSS-based design templates for typography, forms, buttons, navigation and other interface components, as well as optional JavaScript extensions. Unlike many earlier web frameworks, it concerns itself with front-end development only.10 Common Uses of Bootstrap. Bootstrap is a framework to help you **design** websites faster and easier. It includes HTML and CSS based **design** templates for typography, forms, buttons, tables, navigation, modals, image carousels, etc. It also gives you support for JavaScript plug-ins.

**Appealing Features of Bootstrap**

Bootstrap has a lot of features. These features not only make it stand out, but they also make it more popular even among those web designers who like to take things in a very conventional way.

**1. Easy to Begin With**

It is pretty easy, to begin with. Being easy to get started with is probably the first quality which makes Bootstrap very appealing.

**2. LESS as Well as CSS Files**

Bootstrap not only offers LESS files but also includes the old CSS files.

**3. Easily Customizable**

Despite the fact that Bootstrap is designed in responsive 12-column grids, layouts, and components, it is also very easy to customize. Whether you need a fixed grid or a responsive one, it can be made possible by making a few changes. Offsetting and nesting of columns are also easy to do in both CPU-based and mobile-based browser grids.

**4. Responsive Utility Classes**

Another prominent feature of Bootstrap is its responsive utility classes. Using responsive utility classes, a particular piece of content can be made to appear or hide only on devices depending on the size of the screen being used. This feature is extremely helpful for designers who want to make a mobile and tablet-friendly version of their websites.

**5. Components of Bootstrap**

Some of the components that come pre-styled in Bootstrap are:

* Drop-downs
* Button
* Navigation
* Badges Alerts
* Progress Bar

**6. Drop-Down Component Menu**

The drop-down component menu is a responsive additive feature of a website. To include it in a website, a lot of different plugins, mostly Java-based, are tested. But, via Bootstrap and its easy customizing options, this can easily be done in a matter of minutes.

**7. Bootstrap Templates**

The readily available templates make it easier for inexperienced users to create a website following a simple tutorial or demo available on the Bootstrap.