

Q1. What is Bootstrap?

Bootstrap is a platform for web development based on a front-end framework. It is used to create exceptional responsive designs using HTML, and CSS. These templates are used for forms, tables, buttons, typography, models, tables, navigation, carousels and images. Bootstrap also has Javascript plugins, which are optional. Bootstrap is mostly preferred for developing mobile web applications.

Q2. Explain why Bootstrap is preferred for website development.

Bootstrap has better features as compared to other web development platforms. It provides extensive browser support for almost every known browser such as Opera, Chrome, Firefox, Safari, etc. If you are well-acquainted with CSS and HTML, web development becomes easy on Bootstrap.



Also, it supports mobile applications with the help of responsive design and can adjust CSS as per the device, screen size, etc. Instead of creating multiple files, it creates only a single file reducing the work of a developer.

Q3. What are the key components of Bootstrap?

The key components of Bootstrap include:

- **CSS** : It consists of various CSS files
- **Scaffolding** : It provides a basic structure with the Grid system, link styles, and background
- **Layout Components** : This gives the list of layout components
- **JavaScript Plugins** : It contains many jQuery and JavaScript plugins

- **Customize** : To get your own version of the framework, you can customize your components

Q4. List some features of Bootstrap.

Some of the features of Bootstrap are:

- It provides an open-source for use
- Bootstrap has Compatibility with all browsers
- It has Responsive designs
- Easy to use and fast

Q5. What are Class loaders in Bootstrap?

A class loader is a part of JRE or Java Runtime Environment which loads Java classes into Java virtual environment. Class loaders also perform the process of converting a named class into its equivalent binary form.

Q6. What is Contextual classes of table in Bootstrap?

Class	Description
.active	Applies the hover color to a particular row or cell
.success	Indicates a successful or positive action
.warning	Identifies a warning that might need attention
.danger	Indicates a dangerous or potentially negative action

Q7. How many types of layout are available in Bootstrap?

There are two major layouts for Bootstrap:

1. **Fluid Layout** - This layout is necessary for creating an app that is 100 % wider and covers all the screen width.
2. **Fixed Layout** - It is used only for a standard screen (940px). Both layouts can be used for creating a responsive design.

Q8. What is Bootstrap Grid System?

Bootstrap includes a responsive, mobile-first fluid grid system that appropriately scales up to 12 columns as the device or viewport size increases. It includes predefined classes for easy layout options, as well as powerful mixins for generating more semantic layouts.

Q9. Give an example of a basic grid structure in Bootstrap.

Example of a basic grid structure:

```
<div class = "container">
<div class = "row">
<div class = "col-*-*"></div>
<div class = "col-*-*"></div>
</div>

<div class = "row">...</div>
</div>
<div class = "container">....
```

Q10. Why do we use Jumbotron in Bootstrap?

Jumbotron is used for highlighting content in bootstrap. It could either be a slogan or probably a headline. It increases the heading size and gives a margin for the content of the landing page. To implement Jumbotron in a Bootstrap, you have to use:

Create a container <div> with the class of .jumbotron For example, use <div class="container"> if you don't want Jumbotron to reach the screen's edge.

Q11. What are the two codes used for code display in Bootstrap?

There are two simple ways to display code in Bootstrap:

- **<code> tag:** This tag is used to display an inline code.

- `<pre>` tag: If you have a code with several lines or even a block element, you can display it using this.

Q12. Explain the typography and links in Bootstrap.

Bootstrap sets a basic global display (background), typography, and link styles.

- **Basic Global display** – It sets `background-color: #fff;` on the `<body>` element.
- **Typography** – This uses the `@font-family-base`, `@font-size-base`, and `@line-height-base` attributes as the typographic base
- **Link styles** – It sets the global link color via attribute `@link-color` and applies link underlines only on `:hover`.

Q13. What is a progress bar in bootstrap?

Progress bar is used with HTML tag style in HTML element using `<progress>` keyword. In bootstrap we use html5 `<progress>` with CSS classes that have special features in bootstrap, that is only made for the progress bar.

Q14. How do you make images responsive?

Bootstrap allows to make the images responsive by adding a class `.img-responsive` to the `` tag. This class applies `max-width: 100%;` and `height: auto;` to the image so that it scales nicely to the parent element.

Q15. What is the difference between Bootstrap and Foundation?

Bootstrap	Foundation
<ul style="list-style-type: none"> • Bootstrap offers an unlimited number of UI elements • Bootstrap uses pixels • It encourages to design for both desktop and mobile 	<ul style="list-style-type: none"> • In Foundation UI element options are very limited in numbers • Foundation use REMs • Foundation encourages to design mobile first

<ul style="list-style-type: none"> • Bootstrap support LESS as its preprocessor 	<ul style="list-style-type: none"> • It supports Sass and Compass as its preprocessor
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Q16. What are the steps for creating basic or vertical forms?

The steps for creating basic or vertical forms include:

- Add a role form to the parent `<form>` element
- Wrap labels and controls in a `<div>` with class `.form-group`. This is required to achieve optimum spacing
- Add a class of `.form-control` to all texturl `<input>` , `<textarea>` , and `<select>` elements

Q17. What is Bootstrap collapsing elements?

Bootstrap collapsing elements enable you to collapse any particular element without writing any JavaScript code or the accordion markup. To apply collapsing elements in bootstrap, you need to add `data-toggle= "collapse"` to the controller element along with a `data-target` or `href` to automatically assign control of a collapsible element. Also, you can use `.collapse (options)`, `.collapse ('show')` or `.collapse ('hide')` for the same.

Q18. Explain types of lists supported by Bootstrap.

Bootstrap supports three types of lists such as:

1. **Ordered lists** – An ordered list is a list that falls in some sort of sequential order and is prefaced by numbers.
2. **Unordered lists** – An unordered list is a list that doesn't have any particular order and is traditionally styled with bullets. If you do not want the bullets to appear then you can remove the styling by using the class `.list-unstyled`.
3. **Definition lists** – In this type of list, each list item can consist of both the `<dt>` and the `<dd>` elements. `<dt>` stands for definition term. Subsequently, the `<dd>` is the definition of the `<dt>`.

Q19. What is media object in Bootstrap and what are their types?

Media objects in Bootstrap help you to put media object like image, video or audio to the left or right of the content blocks. Media element can be created using the class `.media` and the source is specified in using the class `.media-object`. Media-objects are of two types.

The two types of media object are:

- `.media`
- `.media-list`

Q20. Explain the uses of carousel plugin in Bootstrap.

Carousel plugin in bootstrap is used to make sliders in the web pages or your site. There are several carousel plugins that are used in bootstrap to display large contents within a small space by adding sliders.

Examples: `.carousel(options)`, `.carousel('pause')`, `.carousel('cycle')`, `.carousel('prev')`, `.carousel('next')`.