Bootstrap Interview Questions and Answers

Q1. What is Bootstrap?

Answer: Bootstrap is a popular open-source front-end framework for developing responsive and mobile-first web pages using HTML, CSS, and JavaScript.

Q2. Who developed Bootstrap?

Answer: Bootstrap was originally developed by Mark Otto and Jacob Thornton at Twitter.

Q3. What are the main features of Bootstrap?

Answer: Responsive grid system, pre-designed components, utility classes, JavaScript plugins, and mobile-first design.

Q4. Which versions of Bootstrap are most used?

Answer: Bootstrap 3, Bootstrap 4, and Bootstrap 5 (latest stable version).

Q5. What is the difference between Bootstrap 4 and Bootstrap 5?

Answer: Bootstrap 5 dropped jQuery, introduced enhanced utilities, CSS Grid support, improved forms, and expanded customization.

Q6. What is a responsive design in Bootstrap?

Answer: A design that adapts to different screen sizes and devices using the grid system and media queries.

Q7. What is the Bootstrap grid system?

Answer: A 12-column responsive grid system based on flexbox, used to align and structure layouts.

Q8. What are containers in Bootstrap?

Answer: Wrappers that align content within a layout. Two types: .container (fixed-width) and .container-fluid (full-width).

Q9. What are breakpoints in Bootstrap?

Answer: Screen size ranges where layouts change. E.g., sm, md, lg, xl, xxl.

Q10. What is the difference between container and container-fluid?

Answer: .container has a fixed width based on screen size, while .container-fluid always spans 100% width.

Q11. What are rows in Bootstrap?

Answer: Rows are used inside containers to create horizontal groups of columns.

Q12. What are columns in Bootstrap?

Answer: Columns divide rows into responsive sections, allowing flexible layouts.

Q13. How many columns are there in Bootstrap's grid system?

Answer: 12 columns.

Q14. What is the difference between inline, block, and inline-block elements in Bootstrap?

Answer: Inline: no line break (<span>), Block: takes full width (<div>), Inline-block: inline but behaves like block for spacing.

Q15. What are Bootstrap utilities?

Answer: Utility classes that provide quick styling options like margin (.m-3), padding (.p-2), display (.d-flex), etc.

Q16. What is the difference between Bootstrap 3 and 4?

Answer: Bootstrap 4 uses flexbox, improved grid, new utilities, and dropped IE8 support.

Q17. What are Bootstrap components?

Answer: Pre-built UI elements like buttons, modals, alerts, navbars, and forms.

Q18. What are responsive classes in Bootstrap?

Answer: Classes that apply styles at specific screen sizes (e.g., .d-none d-md-block).

Q19. What is the difference between em, rem, and px in Bootstrap?

Answer: px: fixed pixels, em: relative to parent font size, rem: relative to root font size.

Q20. How do you include Bootstrap in a project?

Answer: By using a CDN link or downloading and including Bootstrap files locally.

Q21. What are glyphicons in Bootstrap?

Answer: Icons provided in Bootstrap 3 (later replaced by external icon libraries like Font Awesome and Bootstrap Icons).

Q22. What are cards in Bootstrap?

Answer: Flexible content containers with header, body, footer, and optional images.

Q23. What are Bootstrap modals?

Answer: Dialog boxes/popup windows built with HTML, CSS, and JavaScript.

Q24. What is the difference between .btn and .btn-primary?

Answer: .btn provides base styling, .btn-primary adds the primary theme color.

Q25. What are Bootstrap forms?

Answer: Styled form controls (input, textarea, select) with validation and layout classes.

Q26. What are Bootstrap navbars?

Answer: Responsive navigation headers with support for menus, links, and branding.

Q27. What is a Bootstrap Jumbotron?

Answer: A large hero section for showcasing key content (deprecated in Bootstrap 5).

Q28. What are badges in Bootstrap?

Answer: Small count indicators or labels, e.g., notifications (4).

Q29. What are pills in Bootstrap?

Answer: Rounded navigation links styled with .nav-pills.

Q30. What is the difference between .d-none and .invisible?

Answer: .d-none removes element from layout, .invisible hides visibility but keeps space.

Q31. What are progress bars in Bootstrap?

Answer: Visual indicators of progress using .progress and .progress-bar.

Q32. What are tooltips in Bootstrap?

Answer: Small popups that display information on hover/focus.

Q33. What are popovers in Bootstrap?

Answer: Small overlays similar to tooltips but with more content.

Q34. What is Bootstrap carousel?

Answer: A slideshow component for cycling through images or content.

Q35. What is the difference between .table and .table-striped?

Answer: .table provides basic table styling, .table-striped adds alternating row colors.

Q36. What is a media object in Bootstrap?

Answer: A flexible structure for aligning media (images/video) with text.

Q37. What are Bootstrap spinners?

Answer: Loading indicators using animated SVGs.

Q38. What are Bootstrap toasts?

Answer: Lightweight notifications that appear temporarily.

Q39. What is the difference between .float-start and .float-end?

Answer: .float-start aligns left, .float-end aligns right (RTL supported).

Q40. What is the difference between .order-first, .order-last, and .order-0?

Answer: Used for reordering flex items. .order-first moves first, .order-last moves last, .order-0 keeps default.

Q41. What are Bootstrap breakpoints?

Answer: Predefined screen widths like sm, md, lg, xl, and xxl.

Q42. What are responsive images in Bootstrap?

Answer: Images styled with .img-fluid to scale according to parent width.

Q43. What is Bootstrap Flexbox?

Answer: A layout system used in Bootstrap 4+ for creating flexible and responsive layouts.

Q44. What is Bootstrap grid nesting?

Answer: Placing rows and columns inside existing columns for complex layouts.

Q45. What are alignment classes in Bootstrap?

Answer: Classes like .text-center, .align-items-center, .justify-content-between.

Q46. What are spacing utilities in Bootstrap?

Answer: Classes like .m-3, .p-2 for margin and padding.

Q47. What are Bootstrap icons?

Answer: A separate icon library introduced in Bootstrap 5.

Q48. What are Bootstrap shadows?

Answer: Utility classes like .shadow, .shadow-lg for adding shadow effects.

Q49. What is the difference between Bootstrap CDN and local installation?

Answer: CDN loads files from online servers, local installation uses files downloaded into your project.

Q50. What are the advantages of using Bootstrap?

Answer: Faster development, responsive design, cross-browser compatibility, reusable components, and community support.