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SR.NO	Project NAME	Technology
1	Online E-Learning Platform Hub	React+Springboot+MySql
2	PG Mates / RoomSharing / Flat Mates	React+Springboot+MySql
3	Tour and Travel management System	React+Springboot+MySql
4	Election commition of India (online Voting System)	React+Springboot+MySql
5	HomeRental Booking System	React+Springboot+MySql
6	Event Management System	React+Springboot+MySql
7	Hotel Management System	React+Springboot+MySql
8	Agriculture web Project	React+Springboot+MySql
9	AirLine Reservation System / Flight booking System	React+Springboot+MySql
10	E-commerce web Project	React+Springboot+MySql
11	Hospital Management System	React+Springboot+MySql
12	E-RTO Driving licence portal	React+Springboot+MySql
13	Transpotation Services portal	React+Springboot+MySql
14	Courier Services Portal / Courier Management System	React+Springboot+MySql
15	Online Food Delivery Portal	React+Springboot+MySql
16	Muncipal Corporation Management	React+Springboot+MySql
17	Gym Management System	React+Springboot+MySql
18	Bike/Car ental System Portal	React+Springboot+MySql
19	CharityDonation web project	React+Springboot+MySql
20	Movie Booking System	React+Springboot+MySql

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22	LIC Insurance Portal	React+Springboot+MySql
23	Employee Management System	React+Springboot+MySql
24	Payroll Management System	React+Springboot+MySql
25	RealEstate Property Project	React+Springboot+MySql
26	Marriage Hall Booking Project	React+Springboot+MySql
27	Online Student Management portal	React+Springboot+MySql
28	Resturant management System	React+Springboot+MySql
29	Solar Management Project	React+Springboot+MySql
30	OneStepService LinkLabourContractor	React+Springboot+MySql
31	Vehical Service Center Portal	React+Springboot+MySql
32	E-wallet Banking Project	React+Springboot+MySql
33	Blogg Application Project	React+Springboot+MySql
34	Car Parking booking Project	React+Springboot+MySql
35	OLA Cab Booking Portal	React+NextJs+Springboot+MySql
36	Society management Portal	React+Springboot+MySql
37	E-College Portal	React+Springboot+MySql
38	FoodWaste Management Donate System	React+Springboot+MySql
39	Sports Ground Booking	React+Springboot+MySql
40	BloodBank mangement System	React+Springboot+MySql

41	Bus Tickit Booking Project	React+Springboot+MySql
42	Fruite Delivery Project	React+Springboot+MySql
43	Woodworks Bed Shop	React+Springboot+MySql
44	Online Dairy Product sell Project	React+Springboot+MySql
45	Online E-Pharma medicine sell Project	React+Springboot+MySql
46	FarmerMarketplace Web Project	React+Springboot+MySql
47	Online Cloth Store Project	React+Springboot+MySql
48	Train Ticket Booking Project	React+Springboot+MySql
49	Quizz Application Project	JSP+Springboot+MySql
50	Hotel Room Booking Project	React+Springboot+MySql
51	Online Crime Reporting Portal Project	React+Springboot+MySql
52	Online Child Adoption Portal Project	React+Springboot+MySql
53	online Pizza Delivery System Project	React+Springboot+MySql
54	Online Social Complaint Portal Project	React+Springboot+MySql
55	Electric Vehical management system Project	React+Springboot+MySql
56	Online mess / Tiffin management System Project	React+Springboot+MySql
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Spring Boot + React JS + MySQL Project List

Sr.No	Project Name	YouTube Link
1	Online E-Learning Hub Platform Project	https://youtu.be/KMjyBaWmgzg?si=YckHuNzs7eC84-IW
2	PG Mate / Room sharing/Flat sharing	https://youtu.be/4P9clHg3wvk?si=4uEsi0962CG6Xodp
3	Tour and Travel System Project Version 1.0	https://youtu.be/-UHOBywHaP8?si=KHHfE_A0uv725f12
4	Marriage Hall Booking	https://youtu.be/VXz0kZQi5to?si=ILOS-QG3TpAFP5k7
5	Ecommerce Shopping project	https://youtu.be/vJ_C6LkhrZ0?si=YhcBylSErvdn7paq
6	Bike Rental System Project	https://youtu.be/FlzsAmIBCbk?si=7ujQTJqEgkQ8ju2H
7	Multi-Restaurant management system	https://youtu.be/pvV-pM2Jf3s?si=PgvnT-yFc8ktrDxB
8	Hospital management system Project	https://youtu.be/lynlouBZvY4?si=CXzQs3BsRkjKhZCw
9	Municipal Corporation system Project	https://youtu.be/cVMx9NVyl4I?si=qX0oQt-GT-LR_5jF
10	Tour and Travel System Project version 2.0	https://youtu.be/_4u0mB9mHXE?si=gDiAhKBowi2gNUKZ

Sr.No	Project Name	YouTube Link
11	Tour and Travel System Project version 3.0	https://youtu.be/Dm7nOdpasWg?si=P_Lh2gcOFhlyudug
12	Gym Management system Project	https://youtu.be/J8_7Zrkg7ag?si=LcxV51ynfUB7OptX
13	Online Driving License system Project	https://youtu.be/3yRzsMs8TLE?si=JRI_z4FDx4Gmt7fn
14	Online Flight Booking system Project	https://youtu.be/m755rOwdk8U?si=HURvAY2VnizlyJlh
15	Employee management system project	https://youtu.be/ID1iE3W_GRw?si=Y_jv1xV_BljhrD0H
16	Online student school or college portal	https://youtu.be/4A25aEKfei0?si=RoVgZtxMk9TPdQvD
17	Online movie booking system project	https://youtu.be/Lfjv_U74SC4?si=fiDvrhhrjb4KSIsm
18	Online Pizza Delivery system project	https://youtu.be/Tp3izreZ458?si=8eWAOzA8SVdNwlyM
19	Online Crime Reporting system Project	https://youtu.be/0UlzReSk9tQ?si=6vN0e70TVY1GOwPO
20	Online Children Adoption Project	https://youtu.be/3T5HC2HKyT4?si=bntP78niYH802I7N

Q - 1) What is the CSS box model?

The CSS box model describes how HTML elements are rendered, consisting of margins, borders, padding, and the content area.

Q - 2) Explain the difference between inline, block, and inline-block elements.

Inline: Elements do not start on a new line and only take up as much space as necessary.

Block: Elements start on a new line and take up the full width available. Inline-block:

Elements behave like inline elements but respect width and height properties.

Q - 3) What is the z-index property, and how does stacking context work?

The z-index property controls the vertical stacking order of elements. Stacking contexts are formed by elements with specific properties like position: relative, absolute, fixed, opacity, and transform.

Q - 4) What is specificity in CSS?

Specificity determines which CSS rule is applied when multiple rules target the same element. It is calculated based on the number of element selectors, class selectors, and ID selectors.

Q - 5) What are CSS pseudo-elements? Give examples.

Pseudo-elements target parts of an element that aren't directly accessible in the HTML.

Examples: ::before, ::after, ::first-letter, ::first-line.

Q - 6) What is the difference between ::before and :before?

::before is the correct syntax for pseudo-elements according to CSS3. :before is CSS2 syntax, but both work in modern browsers for backward compatibility.

Q - 7) Explain CSS Flexbox and its properties.

Flexbox is a layout model for distributing space within a container. Key properties include justify-content, align-items, flex-direction, flex-wrap, and flex-grow.

Q - 8) How does CSS Grid differ from Flexbox?

Flexbox is designed for one-dimensional layouts (either row or column), while CSS Grid is for two-dimensional layouts (rows and columns).

Q - 9) What is the float property used for?

The float property allows elements to be positioned to the left or right of their container, with content flowing around them.

Q - 10) What is grid layout in CSS? How is it different from flexbox?

CSS Grid is a 2D layout system for arranging items in rows and columns. Unlike flexbox, which is 1D (handling either rows or columns), Grid handles both simultaneously.

Q - 11) Explain z-index and stacking context in CSS. z-index controls the stacking order of elements along the z-axis. Stacking context is formed by specific elements (e.g., positioned elements, elements with opacity less than 1), and controls how z-index is applied.

Q - 12) How can you clear floated elements?

You can use the clear property or add overflow: hidden or clearfix methods to contain floats within a parent element.

Q - 13) What is the difference between absolute, relative, fixed, and sticky positioning?

Relative: Positioned relative to its normal position. Absolute: Positioned relative to its nearest positioned ancestor. Fixed: Positioned relative to the viewport. Sticky: Switches between relative and fixed based on scroll position.

Q - 14) Explain the concept of a CSS BEM methodology.

BEM (Block, Element, Modifier) is a naming convention for CSS classes that makes code more readable and modular. A block is a standalone entity, an element is part of the block, and a modifier changes the style or behavior of a block or element.

Q - 15) What is display: none vs. visibility: hidden?

display: none removes the element from the DOM flow, while visibility: hidden keeps the space but hides the element.

Q - 16) Explain the calc() function in CSS.

calc() allows you to perform calculations directly within CSS, such as setting a width to calc(100% - 50px).

Q - 17) What are media queries?

Media queries are used to apply different styles based on device characteristics, such as screen size, resolution, or orientation.

Q - 18) Explain the difference between em and rem units.

em: Relative to the font size of the element. rem: Relative to the root element's font size. ##

Q - 19) Explain CSS specificity and how it's calculated. Specificity determines which CSS rule takes precedence. It's calculated based on the number of ID selectors, class selectors, and element selectors. Inline styles have the highest specificity, followed by IDs, then classes, and finally, elements.

Q - 20) What is the difference between @import and linking CSS?

@import allows CSS files to be imported within another stylesheet but can lead to slower loading times as they load sequentially. Linking is preferred for better performance.

Q - 21) What is the display: inline-block property and when should you use it?

display: inline-block allows elements to be inline (side-by-side) but still respect width, height, padding, and margin, unlike inline elements that do not respect width or height.

Q - 22) What is the :nth-child() selector and how does it differ from :nth-of-type()?

nth-child() selects elements based on their position among all siblings, whereas :nth-of-type() selects elements based on their position among siblings of the same type.

Q - 23) How can you create a responsive design using CSS?

Responsive design can be achieved using media queries, flexible units (like percentages, em, rem), and CSS Grid/Flexbox.

Q - 24) How do you center an element vertically and horizontally using flexbox?

display: flex; justify-content: center; align-items: center;

Q - 25) What are CSS variables, and how are they used?

CSS variables (custom properties) are defined with a – prefix (e.g., –main-color: blue). You can use them with the var() function, e.g., color: var(–main-color).

Q - 26) What are keyframes in CSS animations?

Keyframes define the stages of an animation. You use @keyframes to set the animation's behavior at specific percentages of its duration.

Q - 27) What are CSS transitions, and how do they work?

CSS transitions allow changes to CSS property values over time. You can define which properties to animate, the duration, and easing function

transition: property duration timing-function;

Q - 28) What is the will-change property in CSS?

will-change hints the browser that an element's properties will change, allowing optimization for smoother animations.

Q - 29) What is the difference between max-width and width in media queries?

max-width applies styles if the viewport width is less than the specified value. width is for setting the width of an element.

Q - 30) How do CSS filters work? Provide examples.

CSS filters apply graphical effects like blur, brightness, or contrast to an element.

filter: blur(5px) brightness(1.5);

Q - 31) What are CSS combinators?

CSS combinators include:

Descendant (space): Targets all descendants. Child (>): Targets direct children. Adjacent sibling (+): Targets the next sibling. General sibling (~): Targets all following siblings.

Q - 32) What is the difference between border-box and content-box?

border-box includes padding and borders in an element's width and height, whereas content-box does not.

Q - 33) What are viewport units in CSS?

Viewport units (vw, vh, vmin, vmax) are relative to the size of the viewport. 1vw is 1% of the viewport's width, and 1vh is 1% of the viewport's height.

Q - 34) What is the difference between visibility: hidden and opacity: 0?

visibility: hidden hides the element but keeps its layout space, while opacity: 0 makes it invisible but clickable.

Q - 35) How does clip-path work in CSS?

clip-path allows you to define a clipping region to display part of an element. It can be used for creating complex shapes like circles, polygons, or custom paths.

Q - 36) What are the differences between em, rem, vw, and vh?

em is relative to the parent element's font-size. rem is relative to the root element's font-size. vw is 1% of the viewport's width. vh is 1% of the viewport's height.

Q - 37) What is the aspect-ratio property?

aspect-ratio sets a preferred aspect ratio for an element, ensuring it scales consistently.

Q - 38) What is the writing-mode property?

writing-mode changes the direction in which text is laid out, useful for vertical or right-to-left scripts.

Q - 39) What are CSS min-content and max-content?

min-content sets the minimum width an element can shrink to fit content, while max-content sets the width required to fit the content without wrapping.

Q - 40) Explain CSS scroll snapping.

Scroll snapping allows scrolling to snap to certain points using scroll-snap-type and scroll-snap-align properties.

Q - 41) What is the contain property in CSS?

contain improves performance by limiting the scope of the browser's rendering work on an element.

Q - 42) What is the difference between isolation and mix-blend-mode?

isolation establishes a new stacking context for blending effects, while mix-blend-mode defines how elements blend with the background or other layers.

Q - 43) What is caret-color?

caret-color sets the color of the text input cursor (caret).

Q - 44) What is the resize property in CSS?

resize allows an element to be resized by the user using the mouse.

Q - 45) Explain the place-items property in CSS Grid.

place-items is shorthand for align-items

Q - 46) What are pseudo-classes in CSS?

Pseudo-classes define the special state of an element. For example:

:hover is triggered when the user hovers over an element. :focus is triggered when an element gains focus. a:hover { color: red; }

Q - 47) What are Flexbox and Grid in CSS?

Flexbox (Flexible Box Layout) is a layout model that allows elements to align and distribute space within a container efficiently, even when their size is unknown or dynamic. CSS Grid is a two-dimensional layout system that allows you to layout elements in rows and columns, making complex layouts easier to manage.

Q - 48) How can you create a responsive layout using CSS?

Responsive layouts can be achieved using:

Media Queries: Adjust styles based on screen size, resolution, or orientation. @media (max-width: 600px) { body { background-color: lightblue; } }

Fluid Grids: Use percentage-based widths for elements to scale with the screen size.

Flexbox or Grid: Both provide flexible and adaptive layouts.

Q - 49) How do you center an element horizontally and vertically in CSS?

Using Flexbox:

```
.container { display: flex; justify-content: center; /* Horizontal / align-items: center; /  
Vertical */ height: 100vh; }
```

Using Grid:

```
.container { display: grid; place-items: center; height: 100vh; }
```

Q - 50) Explain the concept of specificity in CSS.

Specificity determines which CSS rule will be applied by the browser. It is based on the type of selectors used:

Inline styles have the highest specificity. ID selectors have more specificity than class or tag selectors. Class selectors have more specificity than tag selectors.



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