| **Term** | **Definition** | **Slide** |
| --- | --- | --- |
| design | A plan or drawing to illustrate how an application should work before it is developed | 4 |
| Application flow design | A structured diagram illustrating the options and paths available to the user when using an application | 5 |
| Lo-fi design | A minimalistic screen design that shows how the required elements will be laid out on the page, without colour or styling | 7 |
| Hi-fi design | A static representation of one or more screens for an application, representing close to exactly what the working app will look like | 7 |
| framework | A collection of JS code libraries that dictate a required structure and syntax while providing a more efficient developer experience | 8 |
| React | A component-based client-side JS library for creating interactive UIs | 10 |
| Angular | A component-based JS framework that uses TypeScript and the MVC architecture style to create complex interactive apps | 13 |
| Style guide | A collection of guidelines around colours, fonts, logos and layout that ensures consistent branding across multiple applications | 17 |
| Paper prototyping | A process of collaborating on initial designs using pen and paper to capture ideas, suggestions and agreed decisions on application features and layout | 20 |
| Figma | An online design and prototyping tool used by both designers and developers | 22 |
| template | A re-usable, data-centric piece of code that can be populated multiple times with different data. Also a HTML element. | 30 |
| MVC | An architectural pattern for coding, separating code into Models (raw data objects), Views (templates for displaying models) and Controllers (logic for updating the model data fed into views) | 31 |
| DOM | Document Object Model: the in-memory representation of the HTML structure for a page, managed by the browser, which can be manipulated by JS using the DOM API | 33 |
| Bootstrap | A CSS framework based on HTML, CSS and JS that provides a library of ready-made responsive and accessible components | 41 |
| Grid | A Bootstrap component that uses flexbox to create row and column based responsive layouts by dividing rows into 12 columns and assigning items to fill a defined amount of columns | 45 |
| breakpoint | Defined screen width sizes (in px) where the layout will change to better accommodate a different sized screen | 47 |
| NavBar | A Bootstrap component for displaying a responsive navigation menu, usually at the top of the page, allowing a user to find important pages easily | 50 |
| Card | A Bootstrap component that groups logically related pieces of data such as a heading, description, image, button, into a visually distinct page element which can be easily duplicated | 51 |
| Accordion | A Bootstrap component for displaying large amounts of data grouped by headings so that only one is visible at a time, hiding the others until activated | 52 |
| Asynchronous code | Code that doesn’t finish executing instantly or wait until completion but triggers a response to be acted on when complete | 56 |
| preventDefault | A JS method for events triggered by user actions that allows the default behaviour of the event to be stopped. Used mostly to prevent a form submit event from refreshing the page. | 59 |
| API | Application Programming Interface: the external access points to a back-end application, allowing it to communicate with other back or front end systems | 62 |
| REST | Representational State Transfer: a style of architecture for back-end systems, constraining how requests and responses are sent to ensure reliability | 62 |
| HTTP method | Different types of requests sent from a client to a server. Most common is GET, also POST, PUT, DELETE | 63 |
| JSON Placeholder | A public API available for learning, development and testing that mimics a real back-end API | 65 |
| fetch | A native browser JS function that sends a request to a server and processes the response asynchronously | 66 |
| axios | A npm library used for sending and simplifying asynchronous requests | 68 |
| CSS animation | A set of CSS properties that can be used to alter the appearance of an element over time to animate it | 71 |
| keyframes | A special CSS rule defining the different states of an animation as it runs | 71 |
| CSS transition | A CSS property that allows a change in value to be drawn out over a specified period of time, instead of happening instantly. Often used to create effects when hovering. | 76 |
| Google Fonts | Google Fonts is a font embedding service library which contains a vast library of free, publicly available web-safe fonts. | 77 |
| icon | Small, styleable graphic images representing key information in picture form | 79 |
| Iconify | An open-source framework containing multiple sets of icons from a wide variety of providers | 79 |
| MomentJS | A now-legacy but widely-used JS library providing helper functions for formatting and manipulating dates | 83 |
| Date-FNS | Modern JS date utility library, providing a toolset for manipulating JavaScript dates | 85 |
| Internationalisation | The process of adding support for different languages, countries and locales in an app | 86 |
| Apache eCharts | A huge open-source JavaScript library for data visualisation using charts/graphs developed by Apache. | 91 |
| FakeStore API | A public API available for learning, development and testing that mimics a real back-end e-commerce API | 94 |