

Javascript Roadmap

Concept	Project Name	Project Description
Variables and Data Types	Character Profile Generator	Create a profile for a game character with details like name, age, and abilities.
Operators	Superhero Battle Simulator	Simulate battles between superheroes with different stats using operators.
Control Flow	Adventure Game	Build a text-based adventure game with choices affecting the outcome.
Loops	Password Generator	Generate random passwords based on user input length and character types.
Functions	Fitness Tracker	Track exercises and calories burned using different functions for each activity.
Arrow Functions	Task Timer	Create a timer app where each task has a countdown. Use arrow functions to handle timing events.
Lexical Scoping	Quiz App with Hints	Build a quiz app where hints are provided using closures and lexical scoping.
Arrays	Movie Watchlist	Create a movie list where you can add, remove, and sort movies.
Objects	Recipe Manager	Manage recipes as objects with ingredients and methods for preparation.
Prototypes	Prototype-based Object Creation	Build an app where objects are created and extended using prototypes.
Classes and Inheritance	Vehicle Simulation with Upgrades	Extend the vehicle simulation to include upgrades (inheritance) and performance tracking.
DOM Manipulation	Whack-a-Mole Game	Create a simple interactive whack-a-mole game using DOM elements.
Event Handling	Drum Kit	Build a virtual drum kit where different keys play different sounds.
Event Bubbling & Capturing	Interactive Event Tracker	Create an app that tracks and displays events using bubbling and capturing phases.
Closures	Countdown Timer	Create a countdown timer with start, pause, and reset functionalities using closures.
Promises	Data Fetch with Loader	Fetch data from an API and display a loading spinner while waiting for the promise to resolve.
Async/Await	Movie Recommendation App	Fetch movie recommendations asynchronously and display them in a list.
Modules (ES6)	Modular Blog Website	Build a blog website where each section (posts, comments, etc.) is handled by a separate module.
Destructuring	User Profile Display	Create a user profile display app where you destructure data from API responses.
Spread and Rest Operators	Shopping List with Categories	Build a shopping list where users can add items and categorize them using spread/rest operators.

Template Literals	Custom Greeting Card Generator	Create a greeting card generator that uses template literals for customizable messages.
Set and Map	Unique Username Checker	Create an app that checks if a username is unique using the Set object.
Symbols	Symbol-based Object Keys	Create an app where object properties are stored using symbols to avoid key collisions.
Iterators	Custom Iterable Collection	Build a custom collection that can be iterated using a custom iterator.
Optional Chaining	Safe Data Access	Create a data display app where you safely access nested properties using optional chaining.
Nullish Coalescing	Default Value Display	Create an app where you provide default values for undefined properties using nullish coalescing.
Dynamic Imports	On-demand Module Loading	Build an app where modules are loaded dynamically based on user interaction.
Fetch API	Weather Dashboard	Fetch and display weather information for a given city using an external API.
Promise.all/any/race	Multi-API Request Handler	Create an app that fetches data from multiple APIs simultaneously and handles responses using Promise.all or any.
Error Handling	Currency Converter	Convert currencies using real-time API data and handle potential errors.
Error Handling with Promises	API Data Fetch with Error Handling	Fetch data from an API with robust error handling and fallback options.
Web Storage API	Note-taking App	Build a simple note-taking app that stores data in local storage.
Form Validation	Interactive Form	Create a dynamic form with real-time validation and feedback for user inputs.
CSS Manipulation	Theme Switcher	Allow users to switch between different color themes using JavaScript.
Animations	Image Slider	Create an automatic image slider with controls for navigating between images.
Data Visualization	Expense Tracker with Charts	Track expenses and display them with charts using a library like Chart.js.
Responsive Design	Responsive Navigation Menu	Build a responsive navigation menu that adapts to different screen sizes using JavaScript.
Game Development	Simple Platformer Game	Develop a simple 2D platformer game where a character can jump and avoid obstacles.
Interactive Graphics	Drawing App	Build a drawing app where users can draw shapes and lines on a canvas using JavaScript.
User Authentication	Login and Signup System	Create a basic login and signup system using JavaScript with form validation.
Data Persistence	Task Management System	Build a task management system where users can save tasks and their progress in local storage.
Custom Events	Event-driven Animation	Create an animation that triggers custom events based on user interaction.

APIs and AJAX	Real-time Chat Application	Create a basic chat app that sends and receives messages in real time using WebSockets or AJAX.
Advanced DOM Manipulation	Image Gallery with Lightbox	Build an image gallery where clicking on a thumbnail opens a larger version in a lightbox.
Private Fields in Classes	Secure Data Handling in Classes	Extend the pet simulator by adding private fields to protect sensitive data.
BigInt	Large Number Calculator	Build a calculator that handles large numbers using BigInt for precise calculations.
Intl Object	Currency Formatter	Create an app that formats currency amounts for different locales using the Intl object.
WeakMap and WeakSet	Memory-efficient Cache	Implement a cache system using WeakMap and WeakSet to manage memory efficiently.
Array.from() and Array.includes()	Custom Array Manipulation	Build an app where you manipulate arrays using modern methods like Array.from() and Array.includes().
Promise.finally()	Resource Cleanup	Create a resource management app where finally() is used to clean up resources after promise handling.