

S. No	Date	Day	Topic	Details
1	2 September 2024	Monday	NodeJS - 1	Understanding what is NodeJs, Exploring Centralised Package Manager, NPM modules, Terminal application, Destructuring, Dependency Graph, Advance File System, async and await
2	3 September 2024	Tuesday	NodeJS - 2	File handling, readfile writefile, writing and reading object in file
3	4 September 2024	Wednesday	NodeJS - 3	Event emitter in nodejs
4	5 September 2024	Thursday	Express-1	Client-server architecture, request-response cycle, creating server with express, get request, Status Code, sending response. query and params
5	9 September 2024	Monday	Express-2	post request, sending post request with form and postman express.json(), express.urlencoded()
6	10 September 2024	Tuesday	Defining RESTful Routes	Understanding RESTful APIs and Get/POST request
7	11 September 2024	Wednesday	Introduction to Databases	Understanding Databases,SQL vs NoSQL ,Getting Started with MongoDB, Why Mongo, Installing Mongo, Mongo Shell, Inserting , Finding, Updating and Deleting with Mongo, Mongo Shell, ,MongoDB Operators
8	12 September 2024	Thursday	Moongoose-ODM	What is Mongoose, Insert Many, Finding, Updating and Deleting with Mongoose
9	16 September 2024	Monday	Data Relationships With Mongo	SQL Relationship Overview, One to Few, One to Many, Mongoose Populate, One to Bijillions, Mongo Schema design
10	17 September 2024	Tuesday	Cookies, Restructuring and Adding Flash to our Shopping Cart	Learning Cookies and Adding more features to our E-Commerce site
11	18 September 2024	Wednesday	Authentication from Scratch	Learning Authentication and store data securely in databases(Bcrypt and JWT)
12	19 September 2024	Thursday	Authentication using PassportJS	Learning Authentication via passport.js
13	23 September 2024	Monday	NodeJS Interview Questions	Interview Questions asked in Placements/Internships on backend
14	24 September 2024	Tuesday	Building TODO App using MERN	Build a To-Do application using the MERN stack (MongoDB, Express.js, React, Node.js).  Major Features:  User Authentication: Secure user registration and login using JWT (JSON Web Tokens). Password hashing with bcrypt for enhanced security.  Task Management: Create, read, update, and delete (CRUD) tasks. Organize tasks with categories and priorities. Mark tasks as completed or pending.  User Profiles: Manage personal information and settings. View task history and completed tasks.  Task Lists: Create multiple task lists for different projects or purposes. Share task lists with other users (collaborative task management).
15	25 September 2024	Wednesday		Search and Filter: Search tasks by keywords. Filter tasks by status (completed, pending), priority, and category.  Make the website responsive.

16	26 September 2024	Thursday	Event Management App	<p>Starting to build our own Event Management app in this project will help students learn how to develop a complete web application for managing events. Users will be able to create, manage, and join events easily.</p> <p>Objectives:</p> <p>App will have following features:</p> <p>User Authentication:</p> <p>Secure user registration and login using JWT (JSON Web Tokens). Password hashing for enhanced security.</p> <p>Event Creation and Management:</p> <p>Users can create new events with details like title, date, time, location, and description. Edit or delete events they have created</p> <p>Event Browsing:</p> <p>Display a list of upcoming events. Search and filter events by date, category, or location.</p> <p>Event Details:</p> <p>Detailed view of each event with all its information</p> <p>RSVP Management:</p> <p>Users can RSVP to events. Event creators can view and manage the list of attendees.</p>
17	30 September 2024	Monday		
18	1 October 2024	Tuesday	E-Commerce Project (MERN)	<p>Build an E-Commerce platform and developing a complete full-stack web application with functionality of popular online shopping websites.</p> <p>Major Features:</p> <p>Authentication and Authorization:</p> <p>Secure user registration and login using JWT (JSON Web Tokens) with admin portal.</p> <p>Product Management:</p> <p>Admin dashboard for managing products-CRUD. Integration with cloud storage services for storing product images.</p> <p>Product Catalog:</p> <p>Implementing the features like search and filtering options by category, price, and ratings. Implement pagination for efficient product browsing.</p> <p>Product Details:</p> <p>Detailed product pages with images, descriptions, prices, and stock information. Display reviews and ratings for each product.</p> <p>Shopping Cart:</p> <p>Add, remove, and update product quantities in the cart. Persistent cart functionality across sessions.</p> <p>Checkout Process:</p> <p>Seamless checkout process with order summary, shipping details, and payment integration. Integration with payment gateways like Razorpay.</p> <p>Order Management:</p> <p>Users can view their order history and order status. Admin can manage and update order statuses.</p> <p>User Profiles:</p> <p>Users can manage their profiles, addresses, and payment methods. Order history and saved items for quick access.</p> <p>Admin Dashboard:</p> <p>Comprehensive admin panel for managing users, products, and orders. Sales analytics and reporting features of different categories of product with responsive website.</p> <p>Notification System:</p> <p>Create the email notification service when user login and on order success.</p>
20	3 October 2024	Thursday		
21	7 October 2024	Monday		
22	8 October 2024	Tuesday		
23	9 October 2024	Wednesday		
24	10 October 2024	Thursday		
25	14 October 2024	Monday		
26	15 October 2024	Tuesday	Using sendGrid API to send the confirmation SMS and Email of orders to the User	

27	16 October 2024	Wednesday	Database mySQL, Express JS with SQL and ORM	Understanding SQL and CRUD operations, via Blog Site Project
28	17 October 2024	Thursday	Sockets	Creating a Chatting Application via sockets
29	21 October 2024	Monday	NETFLIX (MERN)	Build a Netflix clone, in this project will provide we will be developing a full-stack web application, mirroring the functionality and user experience of a popular streaming platform.
30	22 October 2024	Tuesday		Major Features: User Authentication and Authorization: Implement secure user registration and login using JWT (JSON Web Tokens). Role-based access control such as (admin, subscriber).
31	23 October 2024	Wednesday		User Profiles: Allow users to create and manage multiple profiles. Each profile can have personalized settings and watch history.
32	24 October 2024	Thursday		Content Management: Admin dashboard for managing content (add, update, delete movies/TV shows). Integration with a cloud storage service for storing media content.
33	28 October 2024	Monday		Content Browsing and Search: Browse and search functionality for movies and TV shows by genre, title, and popularity. Filtering options to find content based on their preferences.
34	29 October 2024	Tuesday		Recommendations: Recommendation engine based on user watch history and ratings. Display personalized recommendations on the homepage.
35	30 October 2024	Wednesday		User Ratings and Reviews: Allow us to rate and review content. Display average ratings and reviews for each movie/TV show.
36	31 October 2024	Thursday		Watchlist: Feature to add movies and TV shows to a personal watchlist. Option to view and manage the watchlist.
37	4 November 2024	Monday		Responsive Design: Ensure the application is fully responsive.
38	5 November 2024	Tuesday		Notification System: Notify about new releases, recommendations, and updates. Use email or in-app notifications for communication.
38	5 November 2024	Tuesday	Hackathon - 1	
39	6 November 2024	Wednesday	Hackathon - 1	
40	7 November 2024	Thursday	Hackathon - 1	
41	11 November 2024	Monday	Hackathon - 1	
42	12 November 2024	Tuesday	Understanding Multer + Cloudinary	Learning to upload images, videos and on backend, Uploading data to cloudinary, data-uri package implementation

43	13 November 2024	Wednesday	Diving into Images uploading on Cloud	Diving into working of cloudinary
44	14 November 2024	Thursday	Photographer App Clone MERN	Create a photographer app clone using the MERN stack, using this app we can allow photographers to showcase their portfolios, manage client bookings, and process payments securely using an integrated payment gateway like Razorpay.
45	18 November 2024	Monday		Features and Requirements: 1. User Authentication and Authorization User Registration: Users (photographers and clients) can sign up using email, password, and personal details. User Login: Users can log in using their email and password. JWT Authentication: Secure API endpoints using JSON Web Tokens (JWT). User Profiles: Each user has a profile page displaying their information, portfolio (for photographers), and booking history.
46	19 November 2024	Tuesday		2. Portfolio Management Photographer Profiles: Photographers can create and manage their profiles, including personal details, biography, and contact information. Portfolio Gallery: Photographers can upload and manage their portfolio images, organized into albums or categories. Image Management: Ability to add, edit, and delete images from the portfolio.
47	20 November 2024	Wednesday		3. Booking System Booking Calendar: Photographers can manage their availability through a calendar interface. Client Bookings: Clients can view photographers' availability and book appointments for photoshoots. Booking Management: Photographers can accept, decline, or reschedule bookings.
48	21 November 2024	Thursday		4. Reviews and Ratings Review System: Clients can rate and review photographers after a photoshoot. View Ratings: Users can view photographer ratings and reviews before making a booking.
49	25 November 2024	Monday		With notifications about the various tasks that we perform in the app.
50	26 November 2024	Tuesday		
51	27 November 2024	Wednesday	Sequelize ORM - 1	Using Sequelize to run SQL commands.
52	28 November 2024	Thursday	Sequelize ORM - 2	Understanding how various joins can be applied using Sequelize.
53	2 December 2024	Monday	Interview Questions	
54	3 December 2024	Tuesday	Weather App using Sequelize and NodeJS	To track weather of different locations and use the authentication method to ensure users history is saved too. Create the entire thing to show the weather according to DAY and Week.
55	4 December 2024	Wednesday		Use sequelize to integrate SQL database with our application.
56	5 December 2024	Thursday	Advanced concepts - 1	Debouncing, Throttling, and Learn how to use them in the real world situations.
57	9 December 2024	Monday	Deployment of our code	Deployment of our application to Vercel and other similar portals.
58	10 December 2024	Tuesday	Testing Frameworks - 1	Chai and Mocha
59	11 December 2024	Wednesday	Testing Frameworks - 2	Deep Diving into Chai and Mocha
60	12 December 2024	Thursday	Hackathon - 2	
61	16 December 2024	Monday	Hackathon - 2	
62	17 December 2024	Tuesday	Hackathon - 2	
63	18 December 2024	Wednesday	Hackathon - 2	
64	19 December 2024	Thursday	Tailwind CSS - 1	Setting Up Tailwind CSS, Classes for margin, padding, text, and background colors.

65	23 December 2024	Monday	Tailwind CSS - 2	Flexboxes, GridLayouts, and Spacing topics.
66	24 December 2024	Tuesday	Tailwind CSS - 3	Building responsive designs, Transforms and Animations using Tailwind.
67	26 December 2024	Thursday	Interview Preparation Class	