



## Download Roadmap

### 1. Prerequisites

- Basic HTML, CSS, and JavaScript
- ES6+ Features: let/const, arrow functions, template literals
- Git and GitHub
- Basic understanding of REST APIs

### 2. MongoDB

- Introduction to NoSQL & MongoDB
- MongoDB Shell & Compass
- CRUD Operations
- Schema Design & Data Modeling
- Mongoose ODM (for Node.js)

### 3. React.js

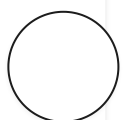
- JSX, Components, Props, State
- Hooks: useState, useEffect, useContext
- React Router
- Form Handling
- Axios / Fetch API
- State Management (Context API or Redux - optional)

### 4. Express.js

- Intro to Express
- Creating REST APIs
- Routing & Middleware
- Request & Response Lifecycle
- Error Handling
- Connecting with MongoDB (using Mongoose)

### 5. Node.js

- Node.js Fundamentals
- npm & package.json



- Asynchronous JS (callbacks, promises, async/await)
- File System, Events, Environment Variables

## 6. Connecting the Stack

- Connecting Frontend (React) to Backend (Express)
- Using Axios to call APIs
- Storing & Retrieving Data with MongoDB
- Form Submission and Validation

## Authentication & Security

- JWT Authentication
- Password Hashing with bcrypt
- Login & Register Routes
- Route Protection (Frontend & Backend)
- CORS, Helmet, Rate Limiting

## 8. Deployment

- Deploying Frontend (Netlify, Vercel)
- Deploying Backend (Render, Railway, or Heroku)
- MongoDB Atlas Setup
- Environment Variables in Production
- Domain Configuration (Optional)