

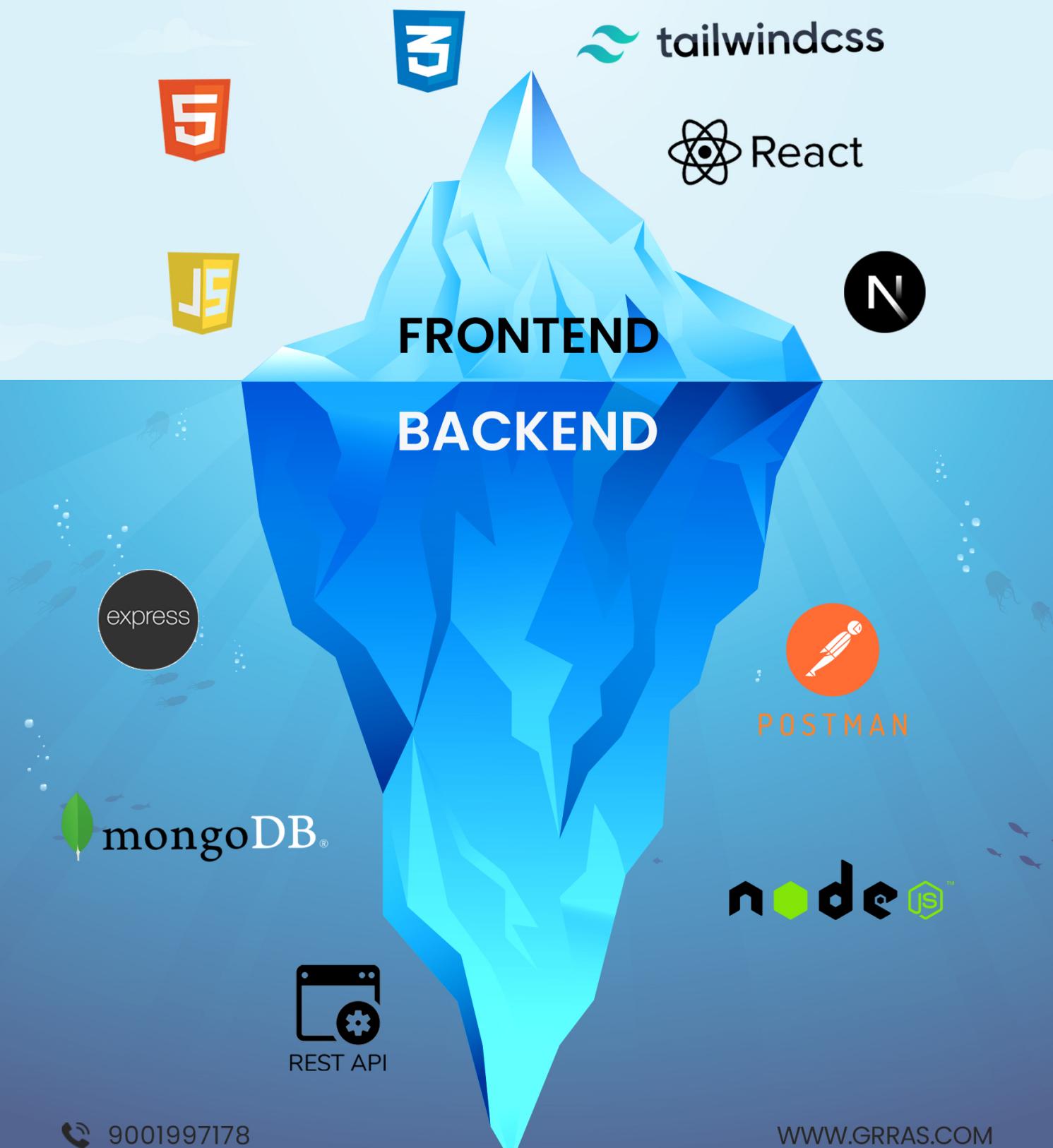
FULL STACK WEB DEVELOPMENT

TRAINING (MERN)



JOIN GRRAS FOR
JOB READY SKILLS

EXCEL AS A FULL-STACK DEVELOPER



Why Fullstack Development is Important?

Versatility is the key to standing out, and Fullstack Development is your ticket to becoming a highly sought-after professional. As a Fullstack Developer, you're not just limited to one aspect of a project; you become the backbone of the entire development process.

Comprehensive Skill Set

Fullstack Developers possess the unique ability to work on both the front-end and back-end of an application. You can bring ideas to life from start to finish.

Higher Employability

Companies are always on the lookout for developers who can do it all. By mastering Fullstack Development, you position yourself as a versatile professional.

Creative Control and Flexibility

With Fullstack expertise, you're not just a cog in the machine; you're the architect of the entire system. This allows you to have creative control over your projects.

Comprehensive Skill Set

The demand for Fullstack Developers is on the rise and shows no signs of slowing down. As technology continues to evolve, your diverse skill set will keep you ahead of the curve, making your career future-proof.

Holistic Understanding

Being a Fullstack Developer gives you a holistic understanding of how applications work. This deep knowledge allows you to troubleshoot issues more effectively and contribute to the overall strategy of a project.

By diving into Fullstack Development, you're not just learning a set of skills—you're unlocking a world of opportunities!

This is your chance to become a tech powerhouse, capable of driving innovation and making a real impact in the industry.

Market Demand and Growth

As businesses continue to digitize and innovate, the demand for Fullstack Developers has skyrocketed. Whether it's e-commerce, finance, healthcare, or entertainment, every industry is looking for professionals who can handle the entire development stack.

The market demand for Fullstack Developers is more than just a trend—it's a reflection of the essential role these professionals play in the tech industry. With a skill set that spans the entire development process, you'll be at the forefront of growth and innovation, making your mark in a field that's only set to expand further. Now is the perfect time to dive into Fullstack Development and secure your place in the future of technology!

The Market for full-stack developers is booming!



30%

Year-on-year increase in job postings for full-stack developers has been observed



78%

Of hiring managers in Indian IT firms prefer candidates with full-stack skills.



40%

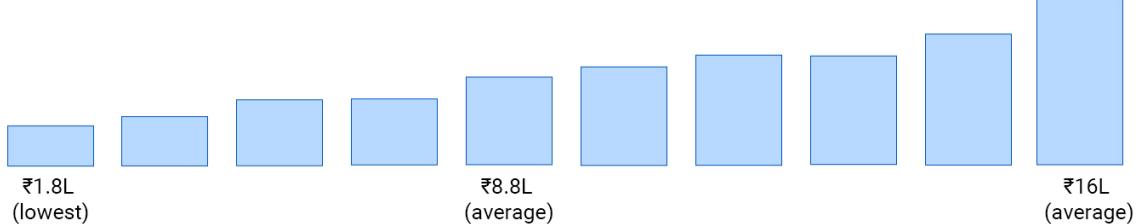
Increase in demand for professionals with full-stack skills across various industries in India

as per a survey by Naukri.com

The Full Stack Development Industry Pays High!

A Full Stack developer in India can earn about ₹8.8 Lakhs per year on average with top packages reaching up to ₹16 Lakhs per year For freshers.

Salaries Reported



Avg. Salary (in Lakhs)

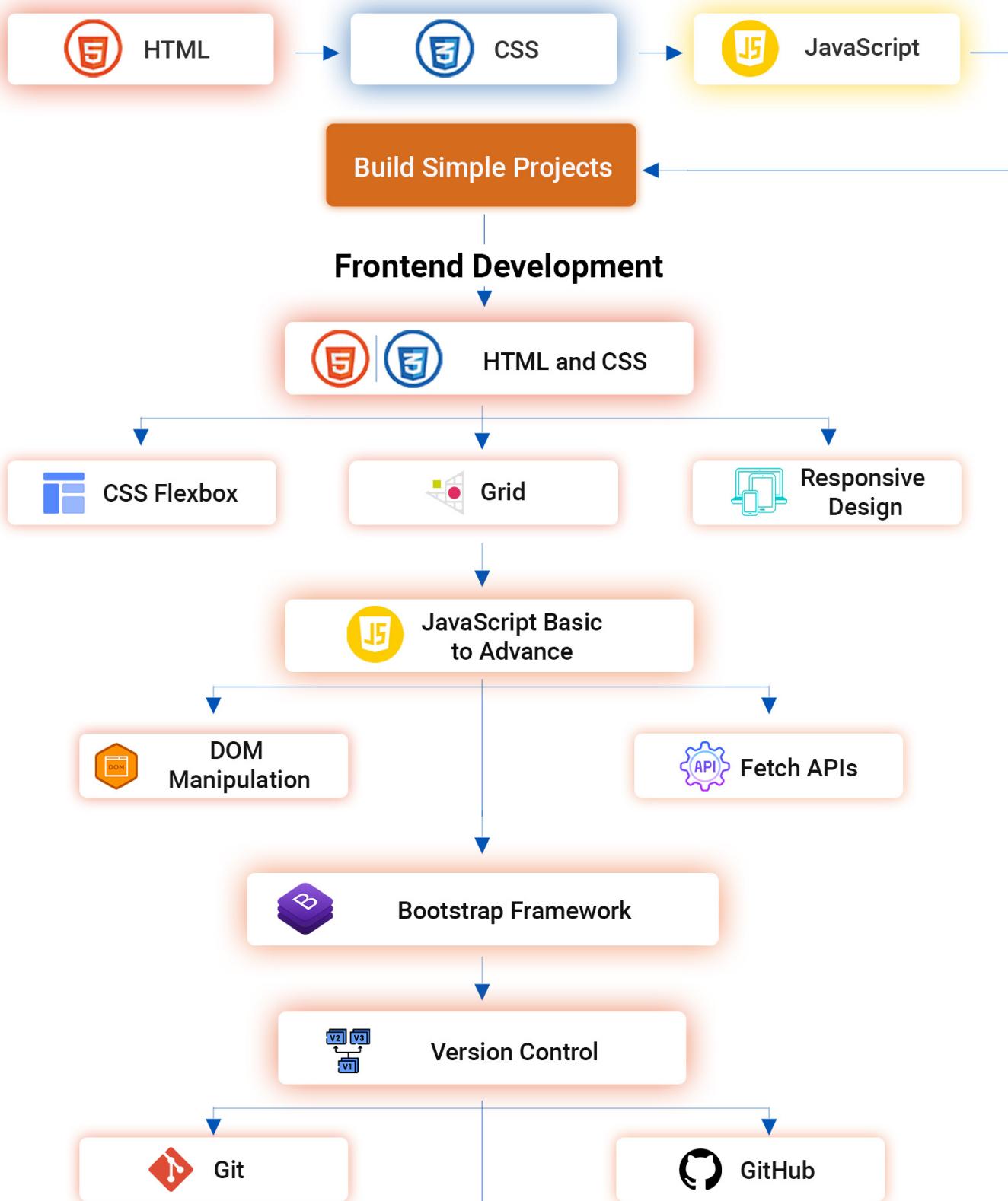
as per a survey by Ambitionbox

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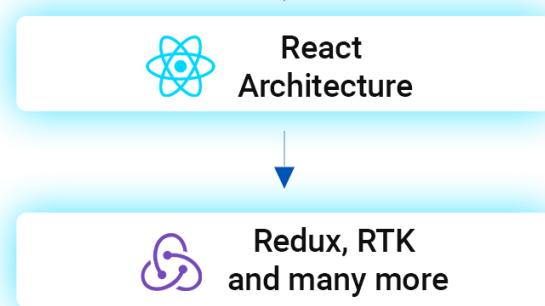
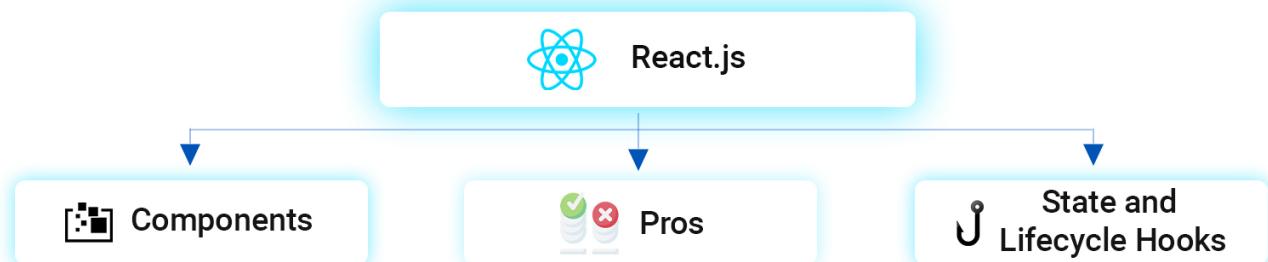
Roadmap to Becoming a

Full stack Developer

Understand the Basics of Web Development



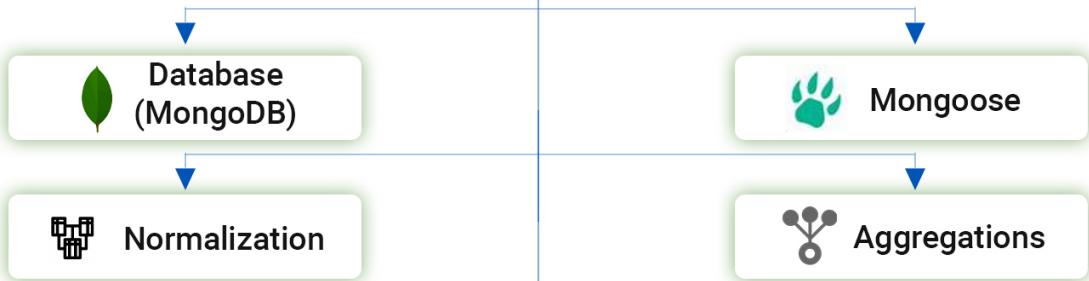
Mastery in Frontend Frameworks



Backend Development



Database and ORM



Handling and Logging errors



Deployment and Cloud computing

From Zero to Job Ready

Master Full-Stack

A Full-Stack developer excels in both Front-end and Back-end, crafting a seamless fusion of design and functionality for a complete web experience.

Guess what? They're in **high demand!** Companies seek these tech masters who can do it all.



Course Curriculum

Full Stack Web Development

HTML

- Introduction
- Empty and Container, Semantic Tags
- Elements & Attributes

- Tables & Lists
- Forms and other imp tags

CSS

- Introduction
- Inline, Internal, External
- Box model and Flex model

- Margin & Padding
- Positioning & Pseudo Classes

BootStrap Framework

- Introduction
- Alerts, Modals, Tooltip & Popover
- Button Groups
- Badges
- Carousel
- Collapse
- Dropdowns
- Inputs
- List Groups
- Navbar

- Progress Bars
- Pagination
- Panels
- Responsive Design
- Typography
- Tables
- Tabs/Pills

JavaScript Basic

- Introduction
- Variables
- Operators

- Arithmetic
- Assignment
- Data Types

- Functions
- Objects
- Events
- Strings
- Numbers
- Arrays
- Date Methods
- Math Methods
- Random
- Booleans
- Control statements
- Type Conversion
- Bitwise
- RegExp
- Errors
- Scope
- Strict Mode
- This Keyword
- Let
- Const
- Debugging
- JSON

JavaScript Advance

- Closures
- Coercion
- Constructor
- Call Backs & CallBack Hell
- Call stack, Call queue, Event loop
- Task queue & Microtask
- Hoisting
- IIFE(Immediately Invoked Function Expression)
- Observable & Implementation with RxJs
- Prototype and its methods
- Promise & Async / Await in JS
“this” concepts

React JS Content

- Introduction to Basic building blocks of Web Application Development.
HTML-CSS-JS
- Single Page Apps VS Multi-Page Applications.
- What is a DOM, VirtualDOM and ShadowDOM?
- Installing ReactJS and writing our first Hello World code.
- The Folder Structure of React Application.
- Basic Building Blocks of React JS – (components,state,props,jsx)
- What are the components? Understanding the component basics and different types of components.
- What are the functional components and class components?
- Nested components.
- What are props?
- Passing Props in components.
- Creating reusable & dynamic components



UI and Components Styling In React

- Tailwind CSS , Responsive Design & its uses
- Styling React components using material UI
- Creating a navigation-bar in ReactJS V5

- Introduction to React Router
- Creating Routes and Nested Routes

React Architecture

- Components with state, props and children
- Using state and props, and their differences
- Manipulating the state with `setState()` method
- Difference between stateless and stateful components
- Adding two-way binding
- Conditioning Rendering
- Making API REQUESTS with Axios vs Fetch
- Dynamic rendering from API
- The purpose of keys in lists and Implementing keys in lists

- Handling User Input with forms and events
- Controlled Elements VS Uncontrolled elements
- Communicating child to parent
- Handling user Input of dynamic forms & (MAKING API CALL)
- Custom Forms & Validation
- Showing validation errors and other error messages
- Handling overall form validity
- Using Refs for DOM Access

Redux and Advance Concepts

- Redux, and Understanding
- Adding Redux to the React Project and Redux Devtools
- What is the provider and adding the provider?
- Setting Up the Reducer and the Store
- Dispatching the Actions
- Adding Subscriptions
- Connecting React to Redux

- Connecting the store to react
- Dispatching the Actions from within the Component
- Passing and Retrieving Data with Actions
- Switch Case in the reducer
- Updating the State and the Array Immutable
- Combining multiple Reducers
- Handling Authentication in React

- The Context System with React.
- Replacing Redux with Context or using both together.
- Higher-Order Components in React.

- The concept of Render Props.
- Error Boundaries.
- React Fragments

Hooks

- Introducing Lifecycle methods.
- Why use Lifecycle methods
- React Hooks – An Introduction,
- Why React Hooks
- Moving from classes to functional components
- Introducing the first Hook: useState
- Hook and Second Hook: useEffect Hook
- Data Fetching with hooks/replacing the class lifecycle methods

- Fetching data on component mount with useEffect
- Using the useRef Hook
- Displaying loading state with useState
- Error Handling and displaying errors with useState
- The useReducer Hook
- Using the useContext Hook

Getting started with Node

- What is Node and its Architecture ?
- Writing your first code in Node

Node Module System

- Introduction
- Global Object
- Modules and its methods
- Path Module
- OS Module
- File System Module
- Events Module
- Event Arguments
- Extending EventEmitter
- HTTP Module

Package Manager (NPM/YARN)

- Introduction
- Package.json
- Installing a Node Package
- Using a Package
- Package Dependencies
- Updating Local Packages
- DevDependencies
- Uninstalling a Package
- Nodemon



Building Restful API Using Express

- Introduction
- RESTful Services
- Introducing Express
- Building Your First Web Server
- Environment Variables
- Route Parameters
- Handling HTTP GET Requests
- Handling HTTP POST Requests
- Calling Endpoints Using Postman
- Input Validation
- Handling HTTP PUT Requests
- Handling HTTP Delete Requests
- Project- Build the Genres API
- Building RESTful APIs with Express Recat

MongoDB

CRUD Operations Using MongoDB

- Introducing
- Installing on Windows / Mac and its
- collection
- Schemas & models
- Saving a Document
- Querying Documents
- Comparison Query Operators
- Logical Query Operators
- Regular Expressions
- Counting
- Updating a Document
- Removing Documents

Mongo Data Validation

- Validation
- Built-in
- Custom
- Async
- Validation Errors
- SchemaType Options

Mongoose

Modeling Relationships between Connected Data

- Modelling Relationships
- Referencing Documents
- Population
- Embedding Documents
- Using an Array of Sub-documents
- Transactions
- ObjectId & Validation
- A Better Implementation

Authentication and Authorization

- Introduction
- Creating the User Model
- Registering Users
- Hashing Passwords

- Authenticating Users
- Testing the Authentication
- JSON Web Tokens
- Generating Authentication Tokens
- Storing Secrets in Environment
- Variables Setting Response Headers
- Getting the Current User
- Logging out Users
- Role-based Authorization
- Testing the Authorization
- Authentication and Authorization Recap

Handling and Logging Errors

- Introduction
- Handling Rejected Promises
- Express Error Middleware
- Try Catch Blocks
- Express Async Errors
- Logging Errors
- Logging to MongoDB
- Uncaught Exceptions
- Unhandled Promise Rejections

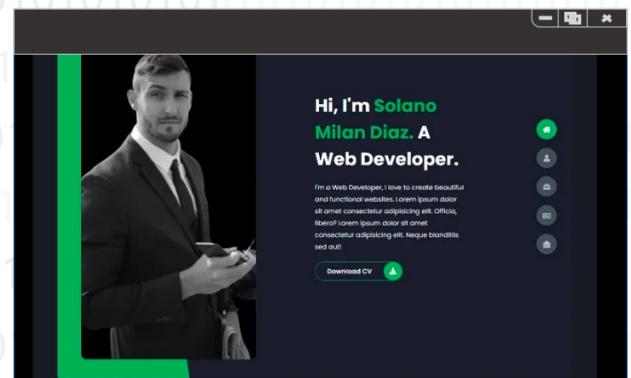
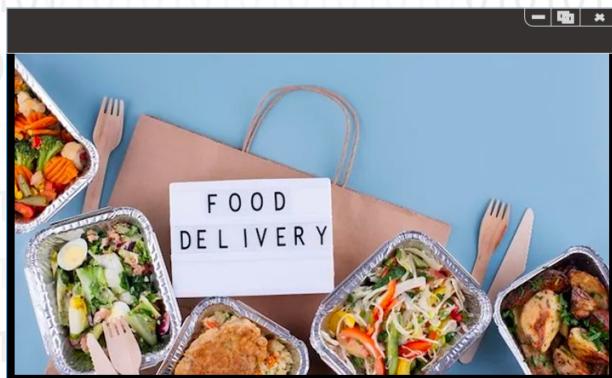
Deployment

- Introduction
- Heroku intro
- Account creation on Heroku
- Preparing the App for Production
- Adding the Code to a Git Repository
- Deploying to Server
- Testing the app

Cloud Computing

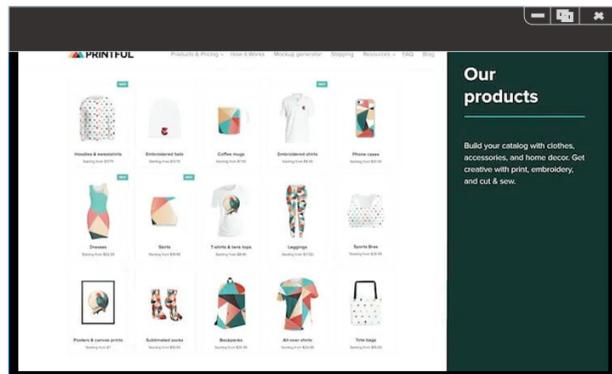
- Introduction of AWS
- AWS Elastic Beanstalk (Run and manage web apps)
- Amazon RDS (Managed relational database service for MySQL, PostgreSQL, Oracle, SQL Server, and MariaDB)
- Amazon DynamoDB (Managed NoSQL database)
- Amazon Simple Storage Service (S3) (Scalable storage in the cloud)
- Heroku Cloud Platform

HANDS-ON INDUSTRY EXPERIENCE



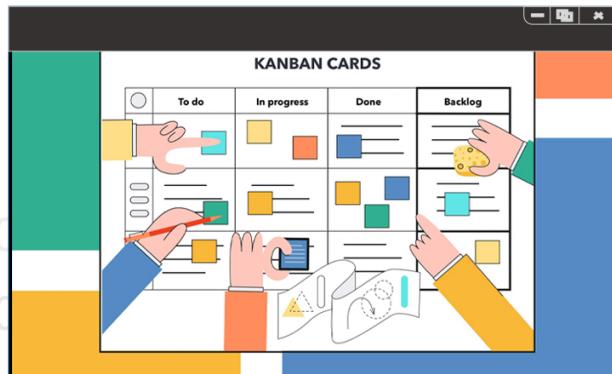
FOOD DELIVERY APP

PORTFOLIO

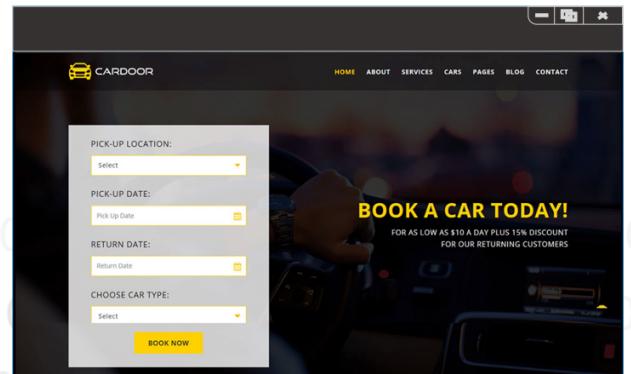


E-COMMERCE

WEATHER APPLICATION



KANBAN BOARD



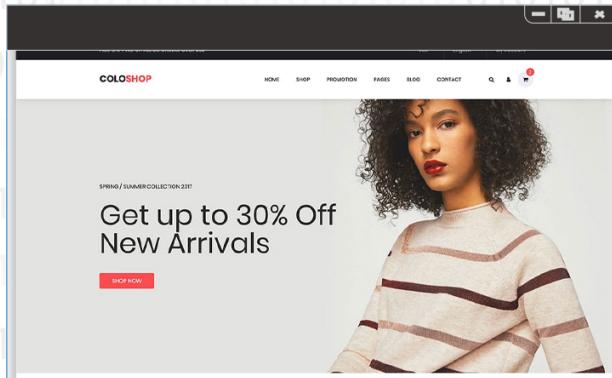
BOOKING SYSTEM

And Explore more Impactful Projects with Us.....



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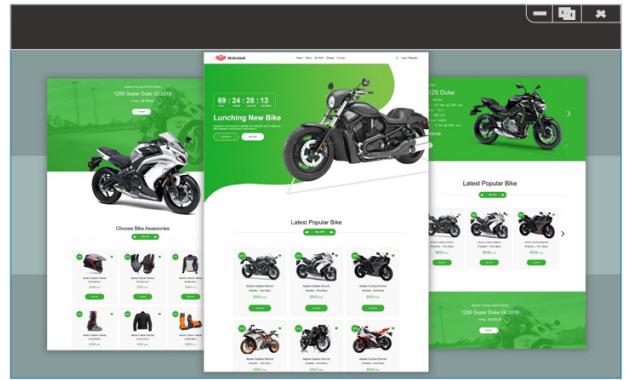
E-COMMERCE

Inventory Management System						
Overview		In stock		Quick Search		
Orders Today		Status		All		
254		J2213	Men's W Collar Shirt	Stock Adjustment	Completed	08-21-2019 450/763
09		44350	Integrated Circuits	Stock Adjustment	In Progress	08-19-2019 30/450
125		6515K	Event and Party Supply Set	-	Completed	07-02-2019 250/560
20		D54440	Patina Tires	Stock Adjustment	In Progress	06-24-2019 25/450
		P0587	Philips Base 1022 9-Watt LED Bulb	Stock Adjustment	Advance Notification	06-22-2019 10/450
		K32450	Portable Head Massager	Stock Adjustment	Completed	06-19-2019 200/100
		345450	Converters	Stock Adjustment	Advance Notification	05-25-2018 25/450
		50187	Wall Recessed LED Lights	Stock Adjustment	Completed	06-22-2018 30/450

INVENTORY MANAGEMENT



HEALTHCARE PLATFORM

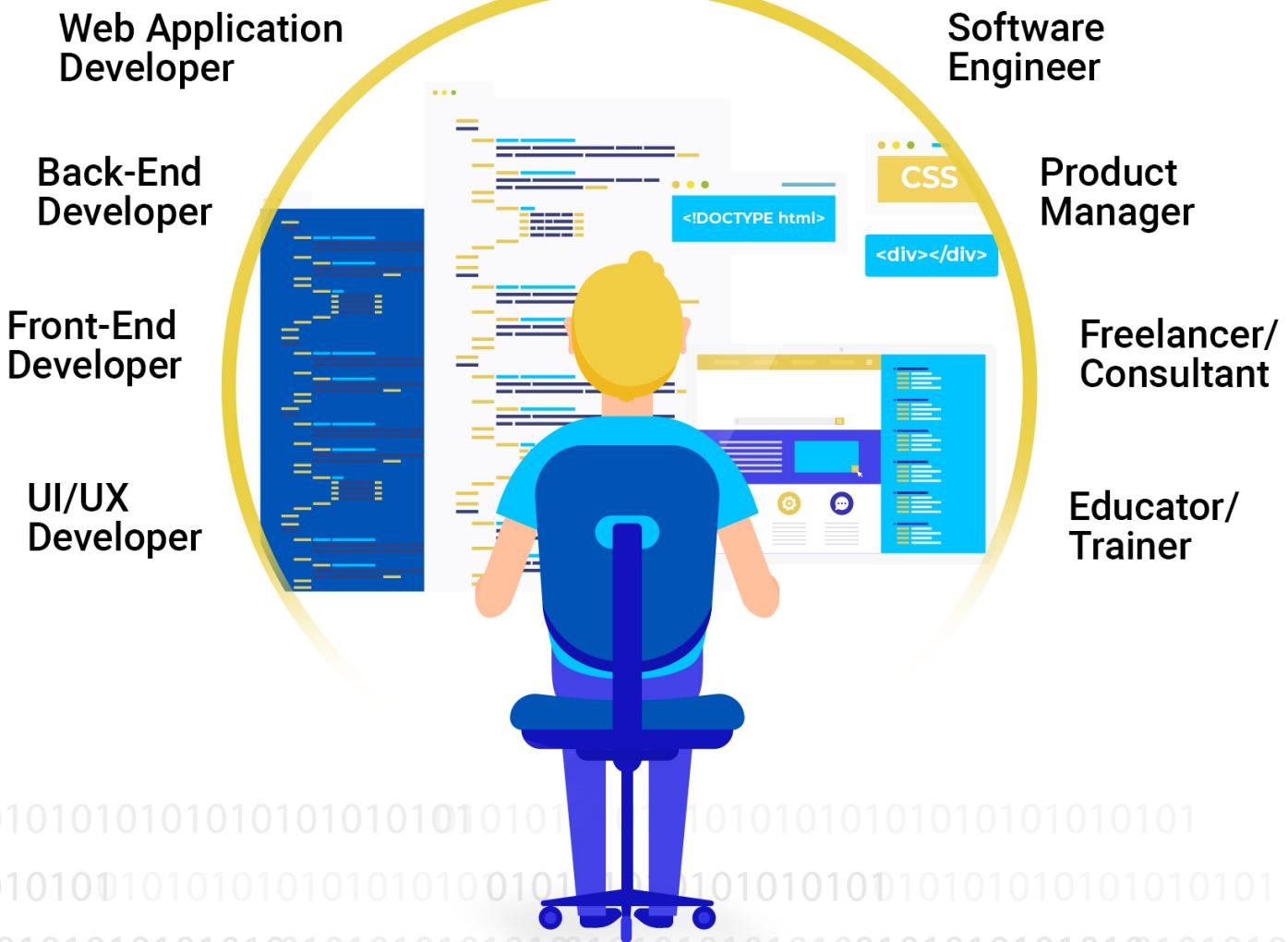


CAR/BIKE SHOWCASE APPLICATION

And Explore more Impactful Projects with Us.....

FUTURE-READY CAREER OPPORTUNITIES

Full Stack Developer



WHO SHOULD DO THIS COURSE?



Recent Graduates,
Working
Professionals



College Students in
their 3rd or 4th Year



Coding Enthusiasts
Who Want to Upskill



Course Duration
16+ Weeks | 4 months



Sessions
90+ live tech Session
10 Value Added Sessions



Class Format
2 Hours per day
Online/Offline.

Why Learn from GRRAS?

You might be thinking, 'What does GRRAS offer me in addition to the knowledge of the concepts?

The answer is a LOT!

GRRAS's philosophy is going a little further. Our courses are designed to cover tools and technologies that are not a part of usual curriculums offered in the market. We ensure our students are prepared for any challenge of the industry and are ready for the future with our future proof education!



YOUR PATH TO SUCCESS



Personalised Mentorship

Individualised guidance from seasoned mentors invested in your success.



24/7 Community Feedback

Engage with a dynamic community for continuous learning and support.



Hands-On Activities

Practical, skill-enhancing activities that reinforce theoretical knowledge.



Real-Life Problem Solving

Tackle authentic challenges, refining your problem solving acumen.



Job Assistance

Dedicated support to facilitate a seamless transition into your career.

When Our Students Succeed, We Succeed!

Where Our Proud Alumni SHINE



and **600+** companies

THESE SUCCESS STORIES

SAY IT ALL!



Praveen Singh

Hello Everyone. My Name Is Praveen Singh. Grras Solutions is the best place to learn the Full Stack Development training course. If you are fresher and want to make career in Full-Stack developer. the best place in GRASS Solutions in Jaipur. where you definitely gained your skills and easily get job in Your domain. also they provide mock interviews, test series and more activities to achieve your goals.



Sakshi Chaudhary

Hello everyone, Grras Solution is one of the best IT Training Institute throughout the world. If anyone would like to join IT training course I must prefer one and only Grras Solution. I had joined Full Stack development course and I got more knowledge from here. Staff nature is very helpful and supportive. The part is that you can ask any doubts without nervousness.

Thankful to Grras Solution Pvt. Ltd.



Manish Adtani

This is one of the best institute where you can learn any technology literally from scratch. I personally enrolled in Mern Stack course and classes started from the very basic of programming. The labs are upto the mark. Timings of the classes are also suitable according to our schedule of regular classes. You are given assignments and labs for the practice purpose and all the assignments are regularly checked by respective instructor.

Tushar Saxena



I recently completed the MERN Stack Development course at GRRAS Institute, and I couldn't be happier with the experience. The instructors are knowledgeable, patient, and genuinely invested in helping you succeed. The course was well-structured, covering everything from the basics to more advanced concepts, with plenty of hands-on projects that really helped solidify my understanding.

Kapil Dilawar



I Kapil Dilawar I completed mern stack website development course of 4 months. I enjoyed so much teachers were so experienced and friendly in nature they gave me all answer of my doubts as much as they can do. this period of my life was best I completed html ,css ,java script ,react ,redux ,node js etc.

karan parwani



GRRAS must be one of the best institutes in Jaipur. The kind of support and guidance they provide, it will definitely help you to grow and achieve the target you are looking for in your career. As far as my opinion is concerned, don't look for the other options because what GRRAS is providing to their students is already the BEST.

Paras Gulvanshi



Completing my internship at GRRAS Solutions Private Limited was a rewarding experience. The knowledgeable mentors, hands-on projects, and supportive environment significantly enhanced my technical skills. The structured program and continuous feedback prepared me well for my career. I highly recommend GRRAS Solutions for a comprehensive internship experience.

More about Us:



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Most Trusted IT Training Provider - India



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