MERN Stack

Module -1(JS basics)

- Introduction to web
- Browser Wars
- DOM tree, CSSOM tree.
- Browser internals - HTML parser , CSS parser , JS engine
- Layout engine or rendering engine JavaScript
- V8 engine internals
- IP – MAC address – Ports & Evolution of HTTP
- How the Server looks at the URL
- Request & Response cycle
- HTML Browser view - Debugger, Inspect, Responsive View
- Browser js vs Node js
- Data types
- Copy by value and Copy by reference
- Window & document object
- Array and JSON iteration
- XMLHTTPRequest
- Hoisting & scope
- function & return keyword
- types of function
- MRF - array method
- error handling
- ES5 vs ES6 -
    - OOP, this, rest & spread operator
    - Array & object destructuring
    - Arrow functions

Module -2 (HTML, CSS, Bootstrap)

- **HTML**
    - What is HTML?
    - Basic tags in HTML?
    - Inline vs block element
    - div vs section vs article
    - HTML forms & Form input element with its attributes and HTML form submit

- **CSS**
  - What is CSS?
  - property vs value
  - Selector:- tag vs class vs id
  - Intro to pseudo-classes (link,visited,hover,active)
  - parent inherit
  - Box model - margin, padding, border
  - Flex - display, direction, wrap, flex-flow, justify-content, align-content
  - Position property - static, relative, absolute, fixed, sticky
  - overflow property - hidden, visible, scroll, auto
  - box-shadow property
  - Media query
  - Use of Font & icons
- **Bootstrap**
  - What is Bootstrap?
  - Layout, Container, grid system, gutters
  - Responsive web design

Module -3 (DOM)

- **DOM Manipulation**
- Document object and Window object
- Method in document object
  - createElement()
  - setAttribute()
  - innerHTML vs innerText
  - append() vs appendChild()
  - getElementById() vs querySelector() vs querySelectorAll()
- Method in Window object
  - prompt() vs alert() vs conform()
  - setTimeout() vs setInterval()
- Events - Change CSS through JavaScript
- Cookies & session, local storage

Module -4 (Advance JS)

- Callback - Event loop
- Promise
  - What are the states in the promise?
  - Promise chaining
  - Fetch API
- Async/Await

Mock Interview-1

Hackathon -1

<u>Module -5 (Reactjs)</u>

- ReactJS introduction
- Components, states, props, lifecycle
- Conditionals, hooks, router, Axios
- Redux

<u>Module -6 (Database & Nodejs)</u>

- MySQL & MongoDB
- NodeJS - Connecting DB with MongoDB
- Routes, Authentication - Middleware - JWT
- Custom middleware
- The student should do a complete backend application

Hackathon - 2

Mock interview - 2

Fullstack project demonstration

<u>Module -7</u>

- Data Structure & Algorithms

<u>Module -8</u>

- System Design
- AWS

Placement preparation & capstone project development (**1 to 2 weeks**)

In between add-on sessions like alumni meet, cracking interviews, personality development, webinars

Final Mock interview - 3 & Capstone project review

PLACEMENT READY / HANDOVER

NQT Attitudinal Alignment Test

Name: Velkur Dharani

Test Date: Oct 2022

About NQT Attitudinal report

NQT Attitudinal alignment comprises of two sections, Personality trait test and Motivation test. The personality trait test is created based on Big 5 model theory which is widely used in the pre-hire assessment to identify job fitment of aspiring candidates. NQT Motivation test is developed based on motivation need theory. This test helps candidates to understand the professional needs and motivates them to work optimally and generate consistent outcomes at the workplace.

How to read this report
The report starts with an executive summary table of 5 personality traits and 3 motivation traits of a candidate with their respective score. The legend tables above help a candidate to understand the score. Based on the legend table and candidates' personality and motivation trait scores, the report gives an interpretation of the score. As the candidate reads the report, he/she may develop insights & suggestive action points that he/she may wish to consider for the best outcomes.

Legend for score

Level	High	Moderate	Low
Percentage Score	100 - 70 >	70 - 30 >	30 - 1
Raw Score Range	72 - 48 >	48 - 24 >	24 - 1

Personality Traits	Your Score in %	Interpretation for score
Open-mindedness	65.28	Most times you are able to observe the beauty in things and seek a slightly different approach while engaging with a task. Solving problems that are uncommon comes to you after you put much effort into the same. You sometimes look for instance to know about things that are new & engaging. You may deal with situations that have some relevance from your past experiences.
Thoroughness	75.00	You are able to hold your thoughts together even at the most challenging and testing times. You produce consistent results over a period of time. Handling last-minute fixes at any given point in time come easy for you. You always ensure to put things back into their respective place. Others are able to readily rely on you for things and be assured of completion in time.
Sociableness	73.61	You engage actively with your surroundings to pursue satisfying rewards, mainly in a social gathering. You get thrilled going after rewards and attention from others. You sustain high enthusiasm in every activity and you do not mind involving with the same on a regular basis. Responding to people boldly when required is absolutely fine with you. Gathering various data points before drawing conclusions comes easy for you.
Amiableness	70.83	You feel good when you keep helping people around you and enjoy the fulfilment of the same. You rarely expect people to recognize your achievements or avoid demanding your importance in order to stand out. Most people find you comforting when they are around you. Following rules and abiding by the same comes easy to you. You readily relate to others' pain and suffering, and you are sure enough that other people have good intentions and mean well.
Compulsiveness	52.78	At times you like to depend on others for certain work and also would mind to carry out tasks that you can handle by yourself. You tend to get worried when you feel things getting out of your hands. You may have a fair understanding of the difficult situation and its consequence. You evaluate some of your past mistakes and try not to blame yourself for the same, however certain thoughts still may hinder your progress.

Legend for score

Level	High	High-Moderate	Low-Moderate	Low
Percentage Score	100 - 75 >	75 - 50 >	50 - 25 >	25 - 1
Raw Score Range	60 - 45 >	45 - 30 >	30 - 15 >	15 - 1

Motivation Traits	Your Score in %	Interpretation for score
Accomplishment	88.33	You are strongly motivated to handle higher risk task in achieving your goals. You get energized to take initiative in leading a task without anyone pressurizing on the same. You are open to receive corrective feedback from others to better your work performance. You feel a sense of achievement when you are able to solve complex problems every time. Working on tasks that have a clear target pushes you to achieve set outcomes optimally.
Authority	85.00	You are highly motivated to be in a position of influence & power. Influencing group members and taking control over the situation keeps you excited. Complete control over situations & things drives you to carry out the tasks successfully. You are highly encouraged when people perceive your hard work. You are able convey your thoughts and opinions strongly to people.
Association	93.33	You are highly motivated to work with people who are cordial and make connection with you. You feel energized when others consider you as an essential part of the group. You feel excited when people appreciate your contribution & like you for same. No conflict & difference of opinion with your team members encourages you to keep engaging with them. You are happy being part of others' success and help them to progress further towards their goals.