TEAM LEAD VERSION (Week-16)

TEAMWORK

CLARUSWAY
WAY TO REINVENT YOURSELF

Meeting Agenda

▶ Icebreaking

▶ Questions

▶ Interview Questions

▶ Coding Challenge

▶ Video of the week

▶ Retro meeting

▶ Case study / project

Teamwork Schedule

Ice-breaking	**5m**	

- Personal Questions (Stay at home & Corona, Study Environment, Kids etc.)
- Any challenges (Classes, Coding, studying, etc.)
- Ask how they're studying, give personal advice.
- Remind that practice makes perfect.

Team work	5m	

- Ask what exactly each student does for the team, if they know each other, if they care for each other, if they follow and talk with each other etc.

Ask Questions	15m	

1. Node.js application can access which of the following databases?

A. NoSQL databases
B. Relational databases
C. All of the above
D. None of the above

Answer:C

2. Which of the followings are valid languages for Node.js?

A. JavaScript
B. Java
C. C++
D. C#

Answer:A

3. Which of the following tool automates various tasks of Node.js application?

A. Express.js
B. GruntJS
C. NPM
D. None of the above

Answer: B

4. Which of the following template engines can be used with Node.js?

A. Jade
B. Vash
C. Handlebars
D. All of the above

Answer: D

5. Which module is used to serve static resources in Node.js?

A. node-static
B. http
C. node-resource
D. static

Answer: A

6. Which of the following types of application can be built using Node.js?

A. Web Application
B. Chat Application
C. RESTful Service
D. All of the above

Answer: D

7. Which of the followings are web application frameworks for Node.js?

A. Express.js
B. Geddy
C. Locomotive
D. All of the above

Answer:D

8. Which of the following class is used to create and consume custom events in Node.js?

A. EventEmitter
B. Events
C. NodeEvent
D. None of the above

Answer:A

Interview Questions	15m	

1. Explain what is MongoDB?

> Answer:

MongoDB is an open-source document database that provides high performance, high availability, and automatic scaling.
It's Key Features are:

- Document Oriented and NoSQL database.
- Supports Aggregation
- Uses BSON format
- Sharding (Helps in Horizontal Scalability)
- Supports Ad Hoc Queries
- Schema Less
- Capped Collection
- Indexing (Any field in MongoDB can be indexed)
- MongoDB Replica Set (Provides high availability)
- Supports Multiple Storage Engines

2. How is data stored in MongoDB?

> Answer:

Data in MongoDB is stored in BSON documents – JSON-style data structures. Documents contain one or more fields, and each field contains a value of a specific data type, including arrays, binary data and sub-documents. Documents that tend to share a similar structure are organized as collections. It may be helpful to think of documents as analogous to rows in a relational database,

fields as similar to columns, and collections as similar to tables.

The advantages of using documents are:

- Documents (i.e. objects) correspond to native data types in many programming languages.
- Embedded documents and arrays reduce need for expensive joins.
- Dynamic schema supports fluent polymorphism.

3. Explain what is horizontal scalability?

> Answer:

Horizontal scalability is the ability to increase capacity by connecting multiple hardware or software entities so that they work as a single logical unit. MongoDB provides horizontal scalability as part of its core functionality.

4. What is Sharding in MongoDB? Explain.

> Answer:

Sharding is a method for storing data across multiple machines. MongoDB uses sharding to support deployments with very large data sets and high throughput operations.

Coding Challenge	10m	

- Coding Challenge: JS-CC-012 : Typewriter Effect

Video of the Week	5m	

- STOP! Don't Apply To Jobs ANYMORE

Retro Meeting on a personal and team level	5m	

Ask the questions below:

- What went well?
- What went wrong?
- What is the improvement areas?

Case study/Project	15m	

21 Best Open Source React Developer Tools To Use In 2021

Prior to the teamwork activity, please take a look at https://www.ideamotive.co/blog/best-open-source-react-developer-tools website. Introduce some of the tools mentioned above at least 5 of them during your teamwork activity.

Closing	**5m**	

-Next week's plan

-QA Session