

1. How to build a server using Node.js
  - To build a server using Node.js we can use many different ways like using the core modules or the express.js framework. since the express provide small and robust tooling for HTTP servers
2. What is Express.js
  - Express is a back-end web application framework for NODEjs, design for building web applications and APIs.
3. What is the difference between response.send() and response.write() in express
  - response.send() sends the response and closes the connection, whereas with response.write() you can only send multiple responses.
4. What is the difference between HTTP get method and HTTP post method
  - Both carry the data from the client-side to the server-side, but HTTP get method adds the data to the URL and the length of the URL is limited while the HTTP post method adds the data to the body as meta data and have no restrictions to the length of the data.
  - GET is better for data which does not require any security or having images or word documents.
5. What is Content-Type? What are different kinds of Content-Type
  - Representation header is used to indicate the original media type of the resource. the type of response will be display.
6. How to enable automatic re-running when files are modified
  - To enable automatic re-running when files are modified we can use nodemon
7. How to pass the parameters in url
  - you can first add the ? mark sign to the url, so any word after the question mark will be considered as parameters, to add multiple parameter you can use to & sign.
8. What is the difference between static and dynamic web pages
  - A static web pages will remain the same until someone changes it manually on the other hand a dynamic web pages, content of pages are different for different visitors.
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9. Have you use template engines
  - A couple of template engines that have used before are pug, ejs and handle bar
10. What is SSR

- An application's ability to convert HTML files on the server into a fully rendered HTML page for the client. great for static file

#### 11. What is CSR

- rendering pages directly in the browser using JavaScript. All logic like data fetch, templating and routing are handled on the client. great for dynamic file

#### 12. How would you structure your node web application

- I could use the application generator tool to quickly create an application skeleton like the npx express-generator, use express.Router() class to create modular, mountable route handlers.

#### 13. What is Data Modeling

- a stage of software development life cycle.
- the process of creating a data model for an information system by applying certain formal techniques.

#### 14. What is the Relational Database

- A type of databases that stores and provides access to data points that are related to one another. Relational databases are based on the relational model a straightforward way of representing data in tables. In relational database each row in the table is a record with a unique ID called the key. Column hold the attribute.

#### 15. What is primary key

- Each row in a table has its own unique key

#### 16. foreign keys

- A foreign key is a column (or group of columns) used in a **relational database to link data between tables**. A foreign key serves to reference the primary key of another existing table.

#### 17. What is transaction

- sql transaction is helpful to execute one more statement as a set. If the transaction is successful all the changes made in that SQL will apply to the table. If any statement inside the transaction encounters an error, then changes made in that transaction will be erased or rolled back.

#### 18. What is non-relation databased

- no tables, rows or primary keys or foreign keys. uses storage model optimized for specific requirements of the data type being store.

## 19. Difference between

- non-relation dabased doess not have tables rows or primary keys

### What is POSTMAN

- API platform for building and using APIs, simplifies each step of the API lifectycle so you can create better APIs—faster.

### What is template engines

- to enable template engines you can use `app.set('view engine', 'ejs')`.
- enable you to use static templates files in your application. At runtime the template engine will replaces variiables in a template file with actual values, and transform the template into a HTML file sent to the client.