



## Question 1: What is Express.js and why is it used?

Express.js is a web application framework for Node.js. It is used for building web applications and APIs. It provides a simple interface to build websites, web apps and back ends quickly and effortlessly.

## Question 2: Can you explain how REST APIs work?

REST stands for Representational State Transfer. It is an architectural style for distributed hypermedia systems. It works on HTTP Methods like GET, POST, PUT, DELETE. A RESTful web service usually defines a URI (Uniform Resource Identifier), and a resource is accessed using these URIs via HTTP methods.

## Question 3: How do you manage issues, bugs, and change requests using Git?

Git allows us to track changes in the code base. If a bug appears, we can use `git bisect` to find the commit that introduced the bug. For managing change requests, we can create a new branch, make the changes there and once approved, we can merge it back to the main branch.

## Question 4: How does a real-time application work in Node.js?

Real-time applications can be built in Node.js using libraries like Socket.io. It allows for event-driven, bidirectional communication between the server and the client. The server can push updates to clients as soon as new data is available.

## Question 5: Can you explain how deployment, automated testing, and implementation cycle work?

Deployment involves making the application available for use. Automated testing involves writing scripts that automatically test your application for bugs and errors. The implementation cycle involves planning, analysis, design, implementation, and maintenance.

## Question 6: How do you use GitHub and GitLab for version control?

GitHub and GitLab are platforms that provide git repository hosting service. They help in version control and collaboration, allowing multiple people to work on projects at once without overwriting each other's changes.

## Question 7: How do you handle state management in React?

For state management in React, I use Redux. It is a predictable state container for JavaScript apps and helps to write applications that behave consistently, run in different environments, and are easy to test.

## Question 8: Can you explain how authentication via Google Auth works?

Google Auth is a secure authentication system that uses OAuth 2.0 protocol. In this, the user is authenticated by Google and then provided with a token which can be used by the application to verify the user's identity.

## Question 9: How do you resolve bugs using React Developer tools?

React Developer Tools is a browser extension that allows us to inspect the React component hierarchies in the virtual DOM. We can select individual components and examine and edit their current props and state. It helps in identifying and fixing bugs in the code.

## Question 10: Can you explain how you used MongoDB in your projects?

MongoDB is a NoSQL database I have used in my projects. With MongoDB, I stored data in flexible, JSON-like documents, meaning fields can vary from document to document and data structure can be changed over time. It integrates well with Node.js and Express.js, making it a good choice for my projects.