

## Written Test :

1. JavaScript frameworks serve as a foundational structure for efficient web development, offering a structured approach to building applications with JavaScript. These frameworks, including Vue.js, play a crucial role in streamlining the development process, reducing code complexity, enhancing maintainability, and promoting reusability. Vue.js, an open-source and progressive JavaScript framework, specializes in crafting user interfaces and single-page applications (SPAs). What sets Vue.js apart is its emphasis on ease of use, flexibility, and stellar performance.

At its core, Vue.js adopts a component-based architecture, breaking down the UI into reusable components that boost modularity and ease maintenance. Its reactivity feature ensures automatic UI updates in response to data changes, providing a responsive and fluid user experience. Vue.js stands out for its straightforward syntax and template language, making it easy for developers to grasp and adopt. Notably, Vue.js allows for incremental adoption, enabling seamless integration into existing projects without the need for major rewrites. Performance is a key strength of Vue.js, thanks to its optimized rendering system that facilitates fast and efficient UI updates.

2. The ellipsis, often represented by three consecutive dots ("..."), serves multiple purposes in writing and communication. One primary use is to indicate the omission of words or a portion of text, especially in quotations, where the full content may not be necessary for the context. It implies that there is more information that has been left out.
3. Animation properties:
  - a. `@keyframes` : Defines the stages of an animation, specifying how the animated element's style properties should change over time.
  - b. `animation-name` : Assigns a name to a keyframe animation so it can be applied to an element.
  - c. `animation-duration` : Specifies the length of time for a single animation cycle, usually in seconds (s) or milliseconds (ms).
  - d. `animation-iteration` : Controls how many times an animation should repeat.
  - e. `animation-direction`: Determines whether the animation plays forwards, backwards, alternates, or repeats in reverse on alternate cycles.
4. Lazy loading is a technique widely utilized in web development to optimize the loading of non-critical resources on a webpage until they become essential for the user experience. In the context of Vue.js, lazy loading can be seamlessly integrated to further enhance the performance of single-page applications (SPAs).

In Vue.js, developers can leverage the dynamic import feature to implement lazy loading. This involves identifying components or modules that are not immediately required during the initial page load. Instead of bundling these components with the main application bundle, Vue.js allows developers to load them asynchronously when needed.

## 5. Git Commands

- 1) `git init`: This command initializes a new Git repository in the current directory. It creates a hidden `.git` folder to store all the tracking information, setting up the project for version control. Example: `git init`.
- 2) `git add`: The `git add` command stages files for the next commit. It adds files from the working directory to the staging area, preparing them to be included in a snapshot of the project. Example: `git add index.html style.css` or `git add .` to add all files.
- 3) `git commit`: The `git commit` command captures a snapshot of the current project state with a descriptive message. It records the changes made to the repository, creating a checkpoint in the version history. Example: `git commit -m "[bugfix]:Fixed a bug in the footer"`.
- 4) `git push`: The `git push` command sends committed changes to a remote repository, typically hosted on platforms like GitHub or GitLab. It allows sharing work with others and serves as a backup. Example: `git push origin feat/food-list-menu`.
- 5) `git pull`: The `git pull` command fetches changes from a remote repository and merges them into the local branch. It updates the local copy with the latest work from others, ensuring synchronization. Example: `git pull origin main`.