**MUHAMMAD HAFIZ HISBULLAH**

**(UX ENGINEER TEST)**

SOAL

1. What is a JavaScript Framework and explain about Vue.js as one of the JavaScript Framework!
2. What is the use of ellipsis?
3. Explain animation properties below: a. @keyframe b. animation-name c. animation-duration d. animation-iteration e. animation-direction
4. Please explain how lazy load works in JavaScript!
5. Mention at least 5 git commands and describe each function of them!

Jawab:

1. Javascript framework is a tool / collection of javascript code created by developers or companies. This aims to simplify the process of product development from websites, mobile, to servers. Many javascript frameworks are open source so that they can be used by many people, the use of each of these frameworks has different characteristics and different rules, among the well-known javascript frameworks are Reactjs (frontend), Vuejs, Angular, ExpressJs (backend), and (server) NodeJs.

Vue js is a javascript framework, vue is used to create views and organize them into declarative and component-based programming models, so that we can make our code more efficient in creating user interfaces. The way vuejs works is almost the same as reactjs and angular, but the size of vue is smaller than the others, only a few kilobytes for the production version but can produce quite high performance. Vuejs has an mv-vm (model view - view model) or reactive system, meaning that every time we make changes in the model, there will be changes in the DOM (browser view) live.

1. Ellipsis is the value of the css property, namely text-overflow, how to use it is "text-overflow : ellipsis", ('…', U+2026) to represent clipped text. The ellipsis is displayed inside the content area, decreasing the amount of text displayed. If there is not enough space to display the ellipsis, it is clipped.
2. Animation properties :
   1. @keyframe is one of the animation properties in css, it functions as a setting for moving a component from 0%(from) to 100%(to), the component will move every unit frame and will finish moving when it reaches its destination (100%)
   2. animation-name is the variable name of @keyframe
   3. animation-duration is the time the animation lasts, starting from 0% to 100%
   4. animation-iteration is looping animation in progress
   5. animation-direction property defines whether an animation should be played forwards, backwards or in alternate cycles.

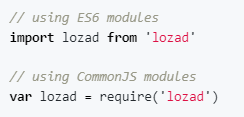
Ex : animation-direction: normal|reverse|alternate|alternate-reverse|initial|inherit;

1. Lazy Load is a technique to make the loading of images on a website asynchronous, meaning that once the top content is fully loaded, the images will not load. Lazy Load works by loading the images only if the user has scrolled to the location where the images will be visible in the viewport, Otherwise the images will never load. For implementation, actually I still don't really understand the documentation, there are several ways that can be used, maybe what I understand enough is to use the js library, namely lozad.js.
   1. Install

Sebuah gambar berisi teks

Deskripsi dibuat secara otomatis

* 1. Usage



In HTML, add an identifier to the element (default selector identified is lozad class):



All you need to do now is just instantiate Lozad as follows:



* 1. Example



1. - git add 🡺Moves changes from the working directory to the staging area. This gives you the opportunity to prepare a snapshot before committing it to the official history.

- git branch 🡺 Moves changes from the working directory to the staging area. This gives you the opportunity to prepare a snapshot before committing it to the official history.

- git checkout 🡺 In addition to checking out old commits and old file revisions, git checkout is also the means to navigate existing branches. Combined with the basic Git commands, it’s a way to work on a particular line of development.

- git clone 🡺 Creates a copy of an existing Git repository. Cloning is the most common way for developers to obtain a working copy of a central repository.

- git commit 🡺 Takes the staged snapshot and commits it to the project history. Combined with git add, this defines the basic workflow for all Git users.