**FULL STACK DEVELOPMENT BOOTCAMP**

**Module 1 (Front End) – Vue**

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**Questions:**

Research and write down the definitions for the topics mentioned below.

1. What is Vue and its advantages?
2. What is the role of Vue as a front-end framework?
3. What is the difference between Vuejs and Bootstrap?
4. What is a progressive framework?
5. What are Single File Applications?
6. What are the 3 parts of a component? 🡺 template, script, style
7. What are the Differences between Vue CDN and Vue Cli?

**Answer:**

1. **Vue** is a progressive framework for building user interfaces. Vue is designed from the ground up to be incrementally adoptable. The core library is focused on the view layer only, and easy to pick up and integrate with other libraries or existing projects. Vue is capale of powering sophistricated Single-Page Applications when used in combination with modern tooling and supporting libraries.

**Advantages of vue.js**:

* **Simplicity**: code using only a few lines, and vue also work with components which single-file components can store all the codes.
* **Integration**: easy to integrate into other frameworks such as React.
* **User-friendly**: easy to learn since it only requires to know the basics of JS, HTML, and CSS
* **Customization**: can easily name the function as they want. Every segment can have separate functions, which makes it easier to customize the application.
* **Few Restrictions**
* **Good Documentation**: shows all the options offered by the framework and corresponding best practice examples.

1. **Role of Vue as a front-end framework**: Vue delivers template that is HTML-based, binding DOM with Vue instance data. The framework compiles templates to the DOM render functionality, streamlining the UI development task.
2. **Different between Vuejs and Bootstrap:**

* **Vuejs**
  + Reactive components for Modern Web Interfaces.
  + It is a library for building interactive web interfaces.
  + It provides data-reactive components with a simple and flexible API.
  + It is grouped under JavaScript UI libraries.
* **Bootstrap**
  + Simple and flexible HTML, CSS, and JS for popular UI components and interactions.
  + For developing responsive mobile projects in the web.
  + It can be classified in Front-End Frameworks.

1. **Progressive framework**: is implemented as additional markup to html file. If the model is updated the browsers html is updated, that is it reacts to model updates.
2. **Single File Components**: it is a *.vue* file, which is a custom file format that uses HTM-like syntax to describe a Vue component.
3. **3 parts of a component**

* Template: contains components template
* Script: exports the vue component config object
* Style: contains css styles relevant for that component.

1. **Differences between Vue CDN and Vue Cli**

* Vue CDN (Content Delivery Network)
  + Using an online library to import the Vue js into your web page.
  + It is very basic.
* Vue CLI (Command-line Interface)
  + It is a global npm package that can be used to download the Vue resource via terminal
  + For professional projects.