SIT120 - Introduction to Responsive Web Apps

Credit Task 2.3

Overview: This task is based on learning and upskilling of the essential concepts in Vue 3 using ***Composition API with Single File Components***. You are required to learn, experiment and code different ideas from Vue 3 to demonstrate your understanding and adequate knowledge of all the concepts listed below. *Clearly mention briefly in short with comments about them in your code section where each concept is implemented [Mandatory]. Follow the same numbering as below for your comments.*

1. Template Syntax
   a. Text Interpolation
   b. Raw HTML [v-html]
   c. Attribute Bindings [v-bind:id]
   d. JavaScript expressions inside syntax i.e.{{ }}
2. Methods
3. Reactivity Fundamentals [ref(), <script setup>]
4. Computed Properties
5. Class and Style Bindings
   a. Binding HTML class [v-bind:class]
   b. Binding Inline Styles [v-bind:style]
6. List Rendering
   a. v-for with an Object
   b. v-for with a Range
   c. v-for on <template>
   d. v-for with v-if
   e. v-for with a Component
7. Event Handling: Listening to Events [v-on:click]
   a. Inline Handlers
   b. Method Handlers
8. Form Input Bindings
   a. v-model with <input type="text">, <input type="checkbox">, <input type="radio">, <select> and <textarea>
   b. v-model modifiers [.lazy , .number, .trim]
9. Watchers
10. Components
    a. Props
    b. Events [$emit]
    c. Slots
11. Router

Resource: https://vuejs.org/guide/introduction.html

Note: *Make sure you are doing this task using Vue 3 (Composition API with Single-File Components) NOT Vue 2.*

Reflection: After you finish implementing different examples of the forementioned concepts of Vue 3, write down your reflection for each concept above following the same numbering as above. [minimum 500 words].

Submission Details: Make sure you follow the instructions strictly.

1. GitHub Repo is a MUST. No zip files will be accepted. Please maintain one task sheet submissions in one GitHub Repo. Don't group all task sheets in one GitHub repo. [If you are keeping repo private then add tutors as collaborators]
2. Demo video MUST be submitted. It MUST show website/app running successfully. Share your video link URL through Deakin air, SharePoint, or unlisted YouTube link, etc. (You can do the screen recording through Zoom; Zoom is free for all Deakin students or any other software)
3. Provide direct link to both GitHub repo and video separately.
4. Submit PDF report including reflections, screenshots etc.
5. Plagiarism is unacceptable.
6. Due date: Please follow OnTrack due date.