

# User Story

**As a user, I'd like to know what I can do at the company so that I get excited about working for the company.**

# Computed Properties and CSS Grid

- We can use **computed** properties to determine dynamic CSS classes to apply to elements.
- **CSS Grid** allows us to build a template around a row/column grid layout.

# JavaScript Time Functions

- The **setInterval** function runs a procedure at a consistent interval.
- The **clearInterval** function clears an interval (i.e., stops it from running again).

# Lifecycle Hooks

- Vue components have **lifecycle hooks** that run at different moments of the component's existence.
- We used the **created** hook to setup an interval to change the text being rendered in our **TheHeadline** component. We also hooked into the **beforeUnmount** hook to remove the interval.

# Mock Functions

- It's wise to move logic out of the component so that we can test the logic and the component in isolation.
- The Vitest mock function **vi.fn()** “mocks out” a real function. We use it as a stand-in or a replacement for a real function that we do not want to involve in our tests.

## Vitest Global Methods

- The **vi.useFakeTimers** method auto-mocks JavaScript's timer functions (setTimeout, setInterval, etc.).
- The **vi.useRealTimers** method returns the mocked functions to their original, native JavaScript implementations.

## More Vitest Methods

- The **vi.advanceTimersToNextTimer** method simulates the passage of an interval.
- The **vi.stubGlobal** method mocks out a global function with a specified mock. We can retain access to the mock as a constant.
- Vue's **nextTick** method waits for the component's DOM updates to be applied. We use it to “wait” in our tests.

## The **beforeEach** and **afterEach** Functions

- The **beforeEach** function executes a function before each test run. We can use it to run shared setup code for tests.
- The **afterEach** function executes a function after each test run. We can use it to run shared cleanup code for tests.