```
Vue.TS
```

1) Unit Testing. (2)
2) Component Testing --- confidence in our code

- 3) End-to-End Testing
- * Choosing ours Unit Testing Framework 1) Test (simplicity, Ability to snapshot of) tests)
 - 2) Mocha + Chai (Flexibility, Allow to choose different libraries, (an execute tests in the browner)

 - 4 Things to consider:
 - i) First-clan ever reporting ii) Active community & team

Test cases are inside:

```
tests
Lunit
Example. spec.js
```

- # Jest will pick up #.test.j's or #.spec.j's file in our projed folder.
- 4 There are three fundamental methods in Jest: 0 describe()
 - O test()
 - 0 expect()
 - j) describe():-

It is used to group related test cause together. Takes two arguments: a string describing the group of tests

Example: describe('math', () => { test('2 + 2 should equal 4', () => { **expect(2 + 2).toBe(4)**;

ii) test():- ('it()' is an alias for the 'test()' method)

test('2 + 2 should equal 4', () => { expect(2 + 2).toBe(4);

- 'test()' is used to define an individual test cone.
- 9t take two argument:

 the first string argument, which describes the test rese

 the second argument is a callback function which contains

 the code to be tested.

});

It is used to define the expected outcome of the text case The argument is the value 2+2, which is expected to be equal to 4.

Example of test() with multiple expect() statements:

test('compare function returns 1 if the first number is greater, 0 if both the numbers are the same, and -1 if the first number is smaller', () => { expect(compare(3, 2)).toBe(1); expect(compare(2, 3)).toBe(-1); expect(compare(3, 3)).toBe(0);

* Unit Testing an Anios Request

axios - mock - adapter

Jest

describe('Axios GET request', () => {

it('returns the expected data', async () => { const mock = new MockAdapter(axios); const expectedData = { name: 'Akash Das', age: 30 }; mock.onGet('/api/users').reply(200, expectedData); const response = await axios.get('/api/users'); expect(response.data).toEqual(expectedData); **})**; **})**;

- * Component Testing
 - 1) vue Testing Library (@testing-library/vue)
 - 2) Vue Test Utils
- * End-to-End(EZE) Testing
 - -> Cross-browner testing Lo Sentry La LogRocket
 - -> Feedback logs (CI/CD pipelines) -> Visibility in headlen mode
 - 1) (ypres. 20
 - 2) Nightwatch.js
 - 3) Puppeteer
 - 4) Test Cafe