



Testing with Jest & Supertest

Material (09:00 - 09:10)

Test Runner & Assertion Library

- Jest = <https://jestjs.io/> ← test runner & assertion
- Cucumber = <https://cucumber.io/docs/installation/javascript/> ← test runner only
- Mocha = <https://mochajs.org/> ← test runner only
- Chai = <https://www.chaijs.com/> ← assertion only

TDD (Test Driven Development)

Demo (09:10 - 10:40)

Jest

- Globals Methods
 - `describe`
 - `test` (alias `it`)
 - Lifecycle / Hooks
 - `beforeAll`
 - `beforeEach`
 - `afterAll`
 - `afterEach`
 - `skip`
 - `only`
 - etc
- Expect Methods
 - `toBe(value)` untuk type data primitive
 - `toEqual(value)` untuk type data non-primitive
 - `toBeInstanceOf(Array || Object)`

- `toHaveProperty("key", values)`
- `toHaveProperty("key", expect.any(Number || String || Boolean))`
- `arrayContaining([1, 2, 3])`
- etc
- Jest CLI Options
 - `--runInBand` = sequence
 - `--forceExit`
 - `--testTimeout`
 - etc

- Running test

- `sequelize db:drop --env test`
- buat `.sequelizerc` berisikan :

```
module.exports = {
  'env': 'test'
}
```

- Run Server Script

- lakukan export pada `app.js`

```
modules.export = app;
```

- buat folder `bin/www`

```
const app = require('../app');
const port = process.env.PORT || 3000;

app.listen(port, () => {
  console.log(`Server listening on port ${port}`);
})
```

Jest with Supertest

- promises
- async/await

Announcement (10:40 - 10:50)