

# ITCamp BRI Batch 2 - System Engineer Mini Project: Pokeanary

By Muhammad Andre Widiyanto and Arya Pratama Putra

## Outcome:

### Milestone 1:

1. Student menggunakan api dari pokeapi.co. ✓
2. Student membuat api untuk scenario berikut.
  - a. List Pokemon api dengan filter nya. ✓
  - b. Detail pokemon api untuk mendapatkan informasi detail. ✓
  - c. Anonymous user bisa mereview si pokemon terpilih.
3. Seluruh kodingan harus dimasukan ke repository provider. ✓

### Milestone 2:

1. Student harus membuat CI/CD di repository provider. ✓
2. Build image docker based on dockerfile yang dibuat. ✓
3. Deploy ke kubernetes. ✓
4. Install monitoring tools.
5. API yang dibuat bisa di test via postman. ✓

### Milestone Bonus:

Student dapat membuat Interface (gui) yang dibutuhkan dengan react/next js ataupun tools fe yang diinginkan.

## To-do list:

- Create github repo ✓ (Planned: 10-03-2024, Done: 12-03-2024)
- Build back-end with flask ✓ (Planned: 10-03-2024, Done: 12-03-2024)
- Build simple front-end ✓ (Planned: 11-03-2024, Done: 13-03-2024)
- Create a Dockerfile ✓ (Planned: 11-03-2024, Done: 13-03-2024)
- Build docker image with Github Actions CI/CD ✓ (Planned: 11-03-2024, Done: 13-03-2024)
- Deploy to kubernetes ✓ (Planned: 12-03-2024, Done: 14-03-2024)
- Test API via postman ✓ (Planned: 12-03-2024, Done: 14-03-2024)
- Install monitoring tools (Planned: 13-03-2024, Not Yet Done)

## Features

You can search pokemon by name and by type:

- search pokemon details by name:
  - pokemon id
  - pokemon type
  - pokemon height
  - pokemon weight
  - pokemon abilities
- Pokemon type
  - type information:
    - Double Damage to pokemon type
    - Half Damage to pokemon type
    - No damage to pokemon type
    - List pokemon with "type"

## Demo Project Scenario

- search pokemon detail
  - type a pokemon name
  - choose "pokemon" from dropdown list
  - click "search"
- find pokemon type detail
  - type a pokemon type
  - choose "type" from dropdown list
  - click "search"

## Challenges

1. Background anggota kelompok yang sangat minim pengalaman dalam proses software/web development sehingga menghabiskan banyak waktu untuk belajar dari dasar.
2. Python flask tidak diajarkan di kelas sehingga harus eksplorasi mandiri dari awal.