makrwatch

Coding Challenge - Senior Backend Software Engineer

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Methodology

Methodology

Iterative process

Inception

Develop backend

Develop frontend

Build and refactor documentation
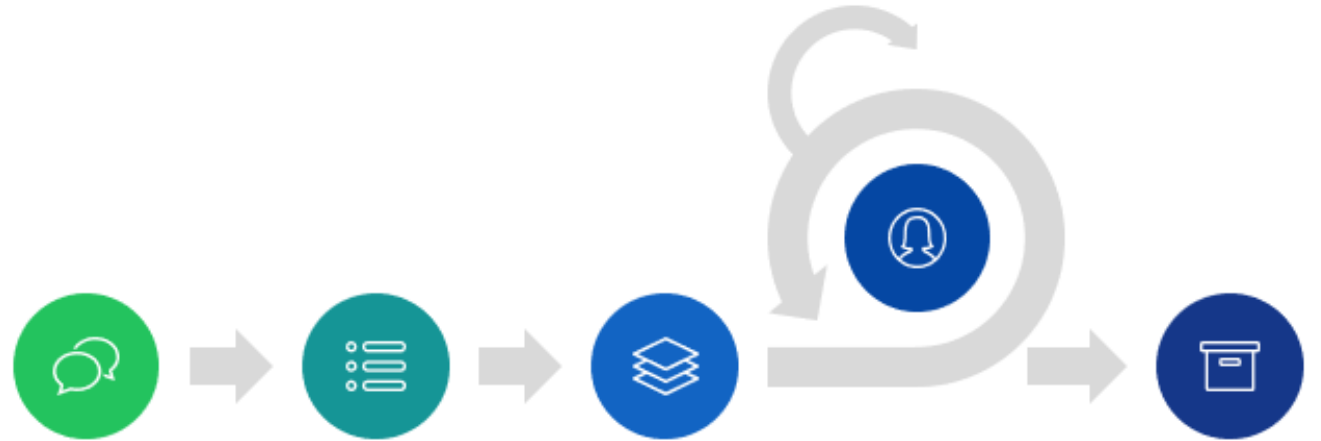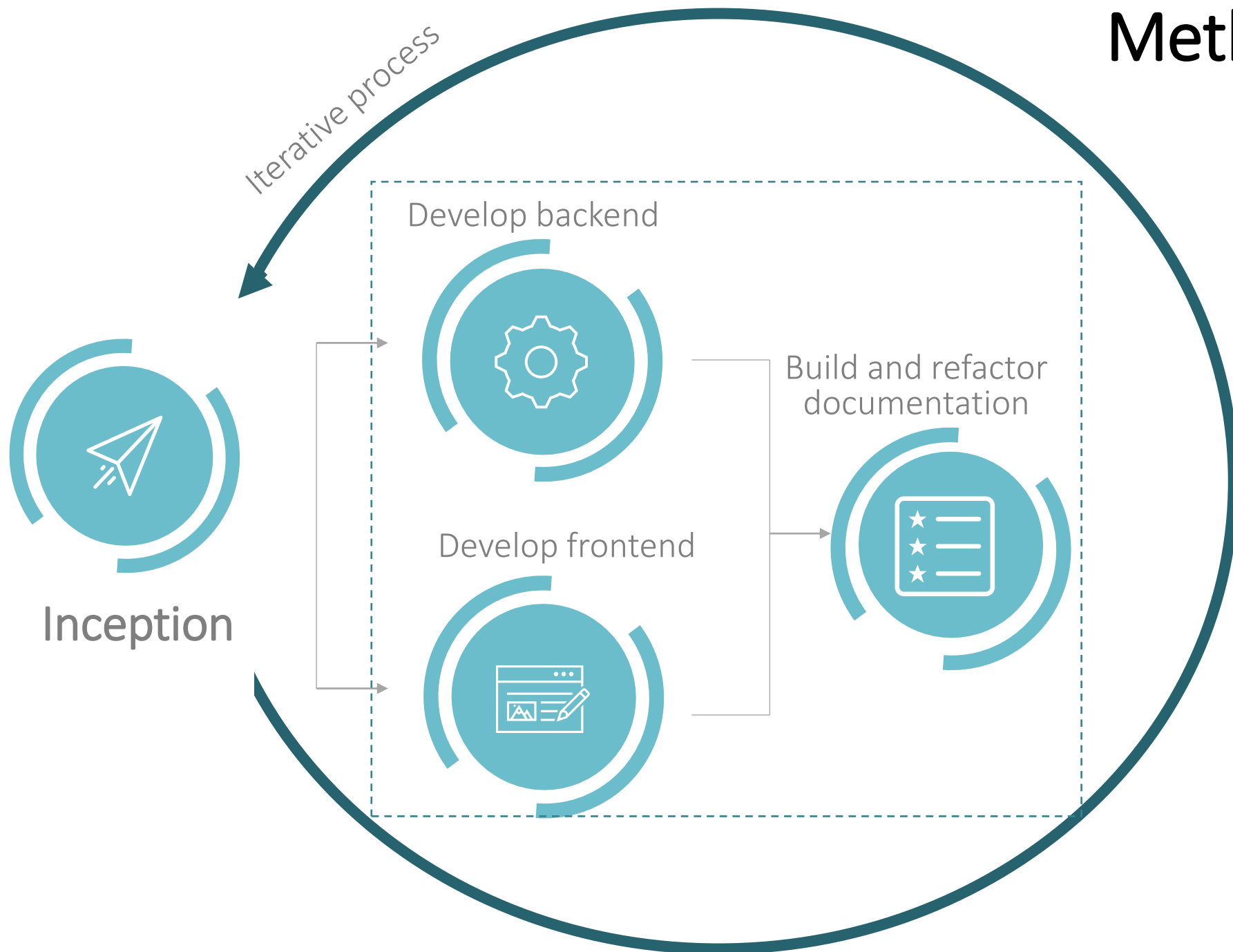
Inception

Inception

- Build GitHub project (https://github.com/dloperab/makrwatch) and Board to manage the development of the challenge (https://github.com/dloperab/makrwatch/projects/2).

- Read and understand requirements.

- PoCs to consume YouTube API --> Link to Colab (https://colab.research.google.com/drive/1PQP-lj_0swR1DVJGb9MgeYQQrZ7bAvc?usp=sharing).

- Study Hexagonal architecture.

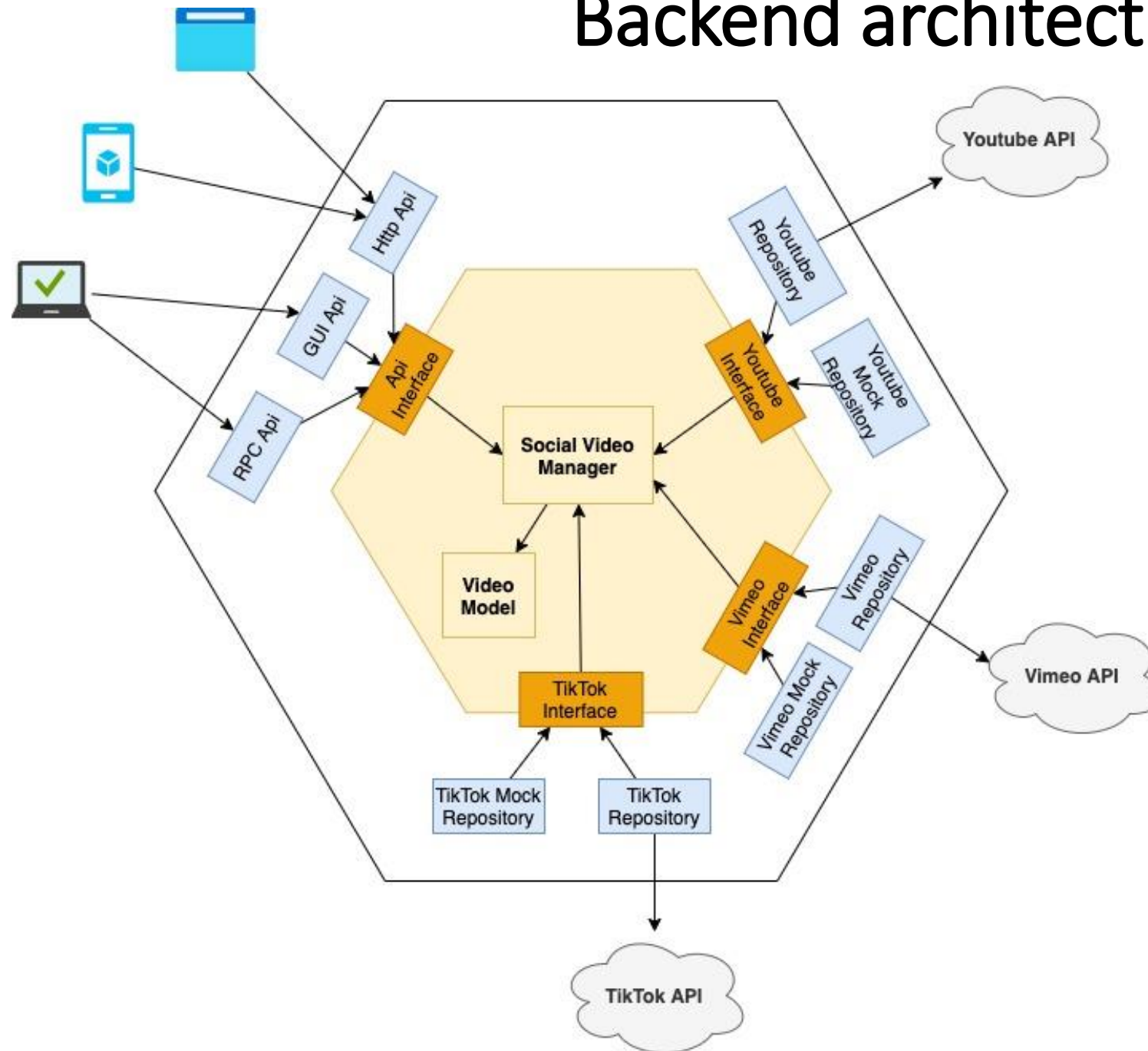- Setup development environment.

- Design general architecture diagrams.

Software Architecture

Reference architecture diagram
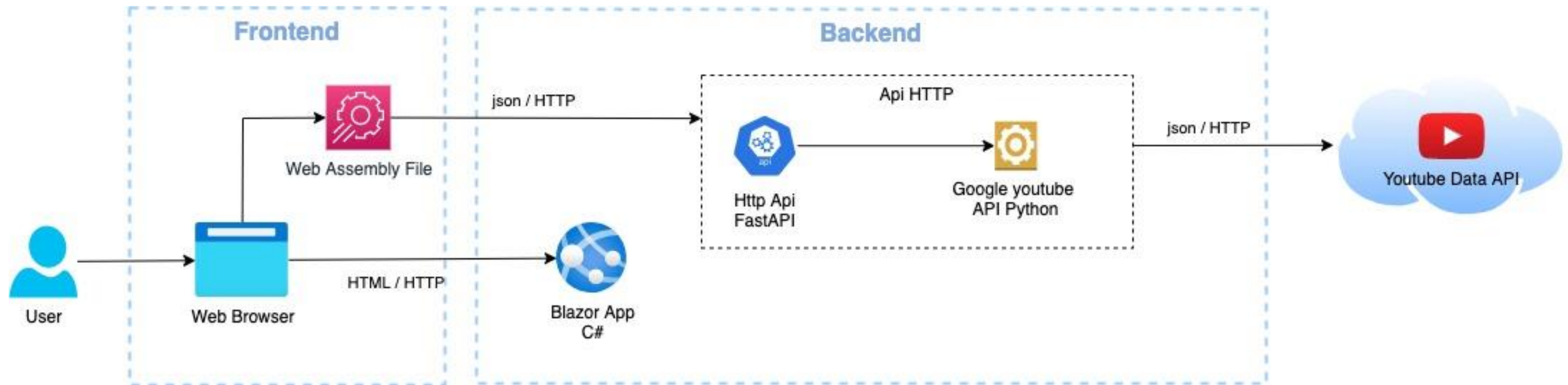
Backend architecture diagram

Code Walkthrough

Good development
practices
implemented

Good development practices

- Implement a clean architecture to have a division of responsibilities.
- **YAGNI: "You Aint Gonna Need It".** Don't write code that I think might need in future.
- Agile phases for Design, Test and Implement requirements.
- Unit testing (Backend).
- Write code in a defensive way.
- Dependency Injection.
- Code organization and simplicity.
- Consistent style guide for every language used (Python, C#/.NET).
- Define small milestones.
- Keep the code simple.
- Document the important classes or methods.

Thanks!