aiolambda

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CHAPTER 1

Quickstart

1.1 Requirements:

- **docker**
- **python3**
- **pip3**
- **aiolambda-cli:** *pip install -U aiolambda*

1.2 Create *project*:

Use *aiolambda-cli* to initialize project dir:

```
$ aiolambda-cli init jwt
```

1.3 API specs:

Define microservice OpenAPI specs, for example:

```
  /auth/{user_id}:
    get:
      tags:
      - auth
      summary: Return JWT token
      operationId: jwt.handlers.auth_handler
      parameters:
      - name: user_id
        description: User unique identifier
```

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```
        in: path
        required: true
        example: 12
        schema:
          type: integer
      responses:
        '200':
          description: JWT token
          content:
            'application/json':
              schema:
                type: string
```

1.4 Code

Define your custom handlers referenced in *openAPI specs*. For example, *auth_handler*:

```
async def auth_handler(user_id: str) -> Response:
    return compose(
        generate_token,
        logger.debug,
        return_200)(user_id)
```

1.5 Useful commands:

- *make lint*
- *make run*
- *make test*

See example *jwt* README.md:

CHAPTER 2

Template init

TODO

CHAPTER 3

Template update

CHAPTER 4

Database

TODO

CHAPTER 5

AMQP

TODO

CHAPTER 6

Roadmap

- **Add more examples:**
  - **crud_users: postgres. Postgres calls.** *Document project: [**page:database:postgres**]
  - **user_settings: mq. Send and subscribe AMQP messages.** *Document project: [**page:amqp**]
  - ***jwt*: ci integration. Basic CI integration with travis.** *Document project: [**page:ci:travisci**]
  - ***jwt*: container integration. Basic container integration.** *Document project: [**page:containers:docker:**]
  - ***jwt*: functional implementations. Async compose, types: errors, ROP documentation.** *Document project: [**page:functional**]
- **Change command definitions:**
  - **inputs:** Command defined with env vars, not cli commands (only use cli commands for short commands [big execution number of times]).
  - **updates:** Makes with inline, replace based ansible filters. (same things: number_of_postgres versions, etc… with default values)
  - **.env:** Recomend .env for auto updates and load envars in each directory (*projects*).
- **Contributions:**
  - **databases:**
    - **redis**…
    - **mongo**…
  - **containers:**
    - **firecracker**…
  - **code analysis:**
    - **code climate**
  - **automated api tests:**

    - **dredd**
  - aiolambda functional

CHAPTER 7

Aiolambda-cli

```
Usage:
    aiolambda-cli init [--db=<name>] [--mq] [--ci] <project-name>
    aiolambda-cli [-h]
Options:
    -h --help       Show this screen.
    --version       Show version.
    --db=<name>     Database to include: [postgresql].
    --mq            Include RabbitMQ/AMQP client library.
    --ci            Include Travis-CI configuration.
```

CHAPTER 8

Indices and tables

- genindex
- search