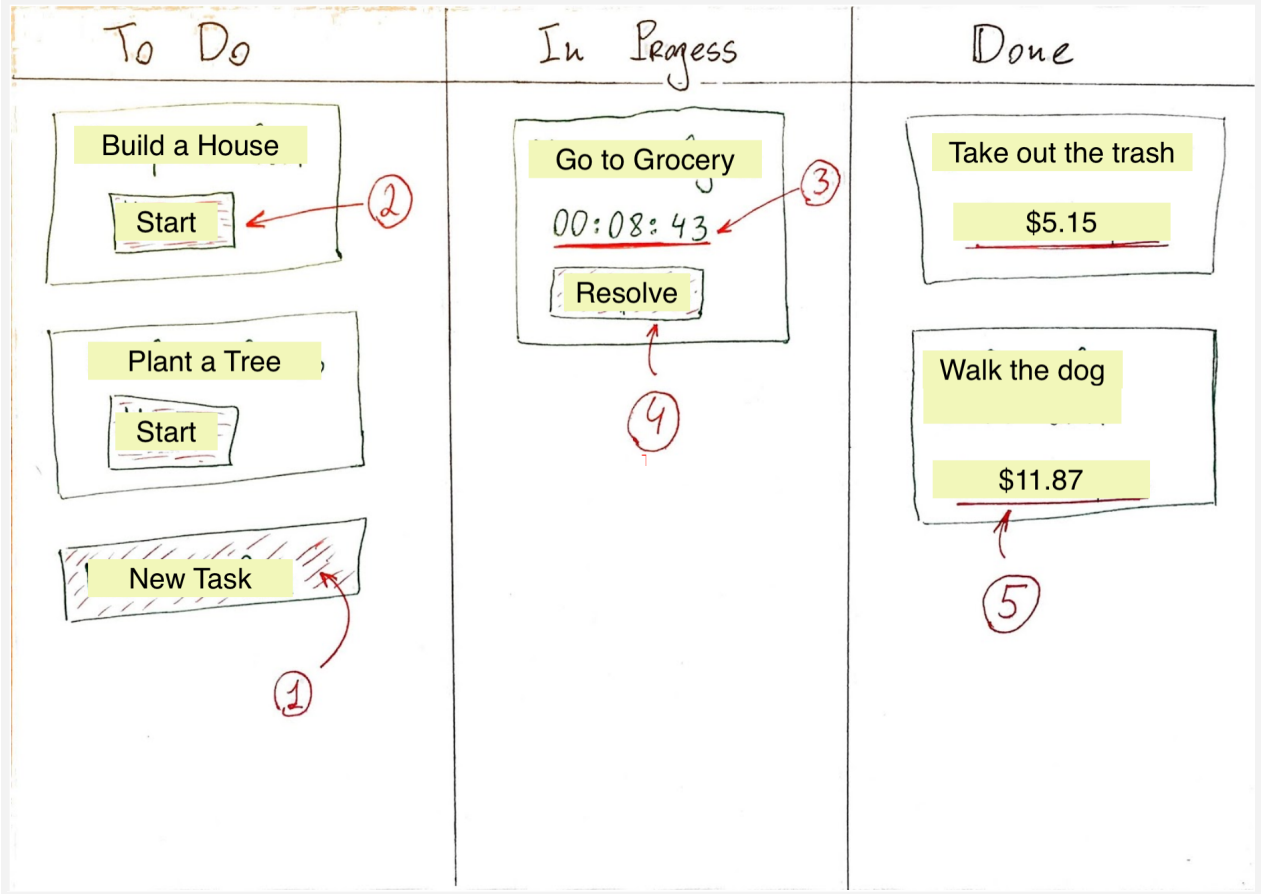
Python Developer Test Task

Kanban-board (Backend: Python/Serverless Framework)Python/Serverless Framework)

Description

The task is to implement a **REST API** for a Kanban board on Python using **Serverless Framework**. The Kanban board functionality is presented on the following chart:



There are 3 columns: **To Do**, **In Progress**, **Done** containing cards with tasks.

After the user clicks **New Task** button (1), the task appears in the “To Do” column. After the user clicks **Start** (2) it goes to the “In Progress” column. When the user clicks **Resolve** (4) it goes to the “Done” column.

Tasks located in the “In Progress” column have **a running timer** (3) showing the amount of time in work.

Tasks located in the “Done” column have **a calculated cost** of a completed task (4). It is calculated as a task in work time multiplied by an hourly rate. The hourly rate is stored as a constant in the code.

Example. If the hourly rate is **$10** and the task has been moved to “In Progress” at **14:00:00** and then to “Done” at **14:15:45**, then the cost would be **$2.63**.

Requirements

Backend

1. REST API in **Python** based on **Serverless Framework** (see serverless.com).
2. **PostgreSQL** database along with **SQLAlchemy**.
3. **TDD/BDD** approach is required: all endpoints should be fully covered by **unit tests**.
4. The app should be deployed to **AWS Lambda** and be accessible by tools like Postman.
5. At least one of the following:
    a. **API documentation** with a description of all endpoints and data types. Could be a README file.
    b. **API specification** using OpenAPI or Tinyspec format.

Frontend

Not needed for the current position.

Results

The links to the GitHub repository and to the AWS-hosted API are expected to be sent via **Telegram** or **Email** (alexander@zinchuk.com).

Good luck!