Short summary of side projects on my GitHub account

@japinol

Name: Joan A. Pinol
GitHub: https://github.com/japinol7
Twitter: https://www.twitter.com/japinol
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Languages: Python, Java
Frameworks: Django, Flask, SQLAlchemy, Odoo ERP, JavaFX...

Projects implemented in Python

- life:
  - Conway's Game of Life with colors.
    https://github.com/japinol7/life
  - Tests: No unit tests, but includes a test suite.
  - Notes: GUI under construction
    For the moment you will have to use the keyboard keys and the line command parameters.
    Apart from these GUI elements, this version is fully operational.

- movies_lib_explorer
  - Movies Library Metadata Explorer using Django and Django REST framework
    https://github.com/japinol7/movies_lib_explorer
  - Tests: Unit tests implemented using `django.test` with `unittest`.
  - Notes:
    This is a very simple Movies Library Metadata Explorer using Django.
    It includes a REST API for some catalog models using Django REST framework.
    Its purpose is to be used as a Django web app example.

- teams-generator-services
  - Teams Generator Services
    https://github.com/japinol7/teams-generator-services
  - Tests: Some unit tests implemented for the main service using `pytest`:
    https://github.com/japinol7/teams-generator-services/tree/main/services/generate-teams
  - Notes:
    Some microservices related to the generation of RPG teams.
    This project uses AWS.
    TODO: They should be improved adding workflows.

- maze-solver
  - Maze Solver
    https://github.com/japinol7/maze-solver

- flask-api-calls
  - Flask API Calls
    https://github.com/japinol7/flask-api-calls
  - Notes:
    This is a very simple Flask web app example that calls some APIs,
    such as NASA APIs, Marvel Comics, Spotify or OpenAI (ChatGPT).

- music-lib-explorer
  - Music Library Metadata Explorer
    https://github.com/japinol7/music-lib-explorer
  - Notes:
    This is a very simple Music Library Metadata Explorer.
    Its purpose is to be used as a Flask + SQLAlchemy web app example.

- erp-invoice-model
    - Very Basic Invoice Model Example
      https://github.com/japinol7/erp-invoice-model
    - Tests: Unit tests implemented using `unittest`:
    - Notes: Run this example this way:
    - `$ python -m unittest`

- the-codemaster
    - Game: The CodeMaster. Nightmare on Bots' Island
      https://github.com/japinol7/the-codemaster
    - Notes: Python game using pygame.

- tictactoe
    - Game: Tic Tac Toe
      https://github.com/japinol7/tictactoe
    - Tests: Some unit tests implemented for the ComputerPlayer class using `pytest`:
      https://github.com/japinol7/tictactoe/tree/main/tests/unit/model
    - Notes: Python game using pygame.
      Computer Players use a simple version of the Minimax decision rule algorithm.

- sudoku-solver
    - Sudoku Solver. Solves sudokus
      https://github.com/japinol7/sudoku-solver
    - Tests: Test for the backtracking algorithm solution using `pytest`:
      https://github.com/japinol7/sudoku-solver/tree/main/tests

- hanoi-towers
    - Game: The towers of Hanoi with graphics. A mathematical puzzle game.
      https://github.com/japinol7/hanoi-towers
    - Tests: Tests for the iterative and recursive solvers using `pytest`:
      https://github.com/japinol7/hanoi-towers/tree/main/tests/unit/model
    - Notes: Python game using pygame.

- snakes
    - Game: Snakes
      https://github.com/japinol7/snakes
    - Notes: Python game using pygame.

Projects implemented in Java

- retail-kiosk
    - JAP Merch's Retail Kiosk
      https://github.com/japinol7/retail-kiosk
    - Tests: Only some tests for the Item model using JUnit 5.
    - Notes:
      Uses JavaFX.

Additional projects implemented in Python

- small-python-projects
    - Some very basic examples of Python programming
      https://github.com/japinol7/small-python-projects
    - Tests: Code katas in cyber-dojo project with TDD (tests first) using `pytest`:
      https://github.com/japinol7/small-python-projects/tree/master/projects/cyber_dojo

- small-odoo-addons
    - Small addons examples of Python programming with the Odoo ERP framework CE 16.0.
      https://github.com/japinol7/small-odoo-addons
        - JAP Sales:
            - Duplicate a sale line with the duplication button.
            - Create an Invoice from Selected Sale Lines.

- poetry-lib-explorer
    - Poetry Library Explorer
      https://github.com/japinol7/poetry-lib-explorer
    - Warning:
      The poems in this project were written by myself when I was younger. Read them under your own risk ;)
      Although these poems are not great, they all have copyright.
    - Notes:
      This is a very simple Poetry Library Metadata Explorer.
      Its purpose is to be used as a Flask + SQLAlchemy web app example.

- fibonacci
    - Fibonacci
      https://github.com/japinol7/fibonacci
    - Notes:
      Benchmarks some algorithms that calculate elements of the Fibonacci sequence.