Short summary of side projects on my GitHub account

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Languages: Python, Java, C, C++, Go, Rust Frameworks: Django, Flask, SQLAIchemy, Odoo ERP, JavaFX...

@japinol

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 <u>https://github.com/japinol7/movies_lib_explorer</u>
 - \circ Tests: Unit tests implemented using <code>django.test</code> with <code>unittest</code>.
 - 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 <u>https://github.com/japinol7/teams-generator-services</u>
 - Tests: Some unit tests implemented for the main service using pytest: <u>https://github.com/japinol7/teams-generator-services/tree/main/services/generate-teams</u>
 - Notes:

Some microservices related to the generation of RPG teams. This project uses AWS and Docker containerization.

- maze-solver
 - Maze Solver <u>https://github.com/japinol7/maze-solver</u>
- 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 <u>https://github.com/japinol7/music-lib-explorer</u>
 - Notes:

This is a very simple Music Library Metadata Explorer. Its purpose is to be used as a Flask + SQLAIchemy 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:
- o \$ python -m unittest
- the-codemaster
 - Game: The CodeMaster. Nightmare on Bots' Island https://github.com/japinol7/the-codemaster
 - Tests: End-to-end tests and a test suite framework to run them. <u>https://github.com/japinol7/the-codemaster/tree/master/suiteoftests</u>
 - Notes: Python game using pygame and pygame-gui.
- tictactoe
 - Game: Tic Tac Toe
 - https://github.com/japinol7/tictactoe
 - Tests: Some unit tests implemented for the ComputerPlayer class using pytest: <u>https://github.com/japinol7/tictactoe/tree/main/tests/unit/model</u>
 - Notes: Python game using pygame.
 Computer Players use a simple version of the Minimax decision rule algorithm.
- sudoku-solver
 - Sudoku Solver. Solves sudokus <u>https://github.com/japinol7/sudoku-solver</u>
 - Tests: Test for the backtracking algorithm solution using pytest: <u>https://github.com/japinol7/sudoku-solver/tree/main/tests</u>
- hanoi-towers
 - Game: The towers of Hanoi with graphics. A mathematical puzzle game. <u>https://github.com/japinol7/hanoi-towers</u>
 - Tests: Tests for the iterative and recursive solvers using pytest: <u>https://github.com/japinol7/hanoi-towers/tree/main/tests/unit/model</u>
 - Notes: Python game using pygame.
- simple-tier-list
 - Simple tier list. <u>https://github.com/japinol7/simple-tier-list</u>
 - Notes: Python application using pygame and pygame-gui for the GUI.

Projects implemented in Java

- retail-kiosk
 - JAP Merch's Retail Kiosk <u>https://github.com/japinol7/retail-kiosk</u>
 - 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: <u>https://github.com/japinol7/small-python-projects/tree/master/projects/cyber_dojo</u>
- small-odoo-addons
 - Small addons examples of Python programming with the Odoo CE 18.0 ERP framework. https://github.com/japinol7/small-odoo-addons
 - JAP Sales:
 - Duplicate a sale line with the duplication button.
 - Create an Invoice from Selected Sale Lines.
- odoo-integration-examples
 - Odoo integration examples in Python using json-rpc and xml-rpc. https://github.com/japinol7/odoo-integration-examples
- poetry-lib-explorer
 - Poetry Library Explorer
 <u>https://github.com/japinol7/poetry-lib-explorer</u>
 - 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 + SQLAIchemy web app example.
- snakes
 - o Game: Snakes
 - https://github.com/japinol7/snakes
 - Notes: Python game using pygame.
- three-clocks
 - Game: Three Clocks
 - https://github.com/japinol7/three-clocks
 - Notes: Python game using pygame and pygame-gui.
- fibonacci
 - o Fibonacci
 - https://github.com/japinol7/fibonacci
 - Notes:

Benchmarks some algorithms that calculate elements of the Fibonacci sequence.

Additional projects implemented in C++

- snake
 - Game: Classic snake game derivative. https://github.com/japinol7/snake
 - Notes:
 - C++ game using the C graphics library: SDL2.

Additional very small projects implemented in Python, C, C++, Go, and Rust

- small-python-projects
 - Some very basic examples of Python programming <u>https://github.com/japinol7/small-python-projects</u>
 - Tests: Code katas in cyber-dojo project with TDD (tests first) using pytest: <u>https://github.com/japinol7/small-python-projects/tree/master/projects/cyber_dojo</u>
- small-c-projects
 - Some very basic examples of C programming <u>https://github.com/japinol7/small-c-projects</u>
 - Tests: Code katas in cyber-dojo project with TDD (tests first): <u>https://github.com/japinol7/small-c-projects/tree/main/projects/cyber_dojo</u> <u>https://github.com/japinol7/small-c-projects/tree/main/tests/unit/cyber_dojo</u>
- small-cpp-projects
 - Some very basic examples of C++ programming <u>https://github.com/japinol7/small-cpp-projects</u>
 - Tests: Code katas in cyber-dojo project with TDD (tests first): <u>https://github.com/japinol7/small-cpp-projects/tree/main/projects/cyber_dojo</u> <u>https://github.com/japinol7/small-cpp-projects/tree/main/tests/unit/cyber_dojo</u>
- small-go-projects
 - Some very basic examples of Go programming <u>https://github.com/japinol7/small-go-projects</u>
 - Tests: Code katas in cyber-dojo project with TDD (tests first): <u>https://github.com/japinol7/small-go-projects/tree/main/projects/cyber_dojo</u>
- small-rust-projects
 - Some very basic examples of Rust programming <u>https://github.com/japinol7/small-rust-projects</u>
 - Tests: Code katas in cyber-dojo project with TDD (tests first): <u>https://github.com/japinol7/small-rust-projects/tree/master/projects/cyber_dojo</u>