Plaskon - A Learning Server for Python Flask

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The starting age to learn programming is decreasing year by year. Most students start from block-based programming languages, like Scratch. However, their final goal should be programming in text-based languages, like Python. Due to the syntax complexity, environments that allow them to transit from block-based to text-based gradually are in demand. Aside for the language syntax barrier, the configuration of the local development environment is also complicated for them. Web-IDEs can be one solution. There are existing web-IDEs with various functionalities, including assisting learners learning. Pytch is a web-IDE designed to help students transition from Scratch to Python. It allows the users to develop Scratch-like games or animations using Scratch-like event-driven methods in Python. There is a clear need for a system that can allow learners to move on to more traditional programming tasks. This proposed system, Plaskon, is designed to continue Pytch’s work. Instead of cartoons, it teaches the students to implement web applications using a lightweight web framework Python Flask. With this system, the users can further expand their Python knowledge learned from Pytch. After practising with Plaskon, the users should have the capability to understand Python programs and be ready to learn more complex programming in Python.