

Miniproject

LINGUIST

by course EmpowerU - Python Fundamentals

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softserve
academy

Practical Tasks

12. Networking. Web Programming. Flask

- Our code is a full-fledged Flask web application for language learning. It uses several key libraries:
- **Flask** as the main framework for the web application.
- **SQLAlchemy** for database work, which allows us to interact with the data using Python objects instead of SQL queries.
- **Flask-Login** for managing user sessions, login, logout, and page security.
- **passlib** for secure password hashing, which is critical for protecting user data.
- The code contains separate functions for each of the CRUD operations, which makes it clean and easy to maintain.

Analysis

<https://github.com/Shevchenko0207/Linguist-App.git>
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- The application is built on the principle of separation of responsibilities: data models, functions for working with this data (CRUD), and Flask web routes that handle user requests.
 - our code heavily uses Flask templates to display HTML pages.
 - **basic.html** is used as a base template from which other templates can inherit, which avoids code duplication and maintains a single look and feel for the site.
 - the created **virtual environment** is isolated in the project folder, which allows you to install project dependencies separately from global packages.
 - Overall, our code is well-structured and demonstrates the correct use of **Flask**, **SQLAlchemy** and **Flask-Login**.