
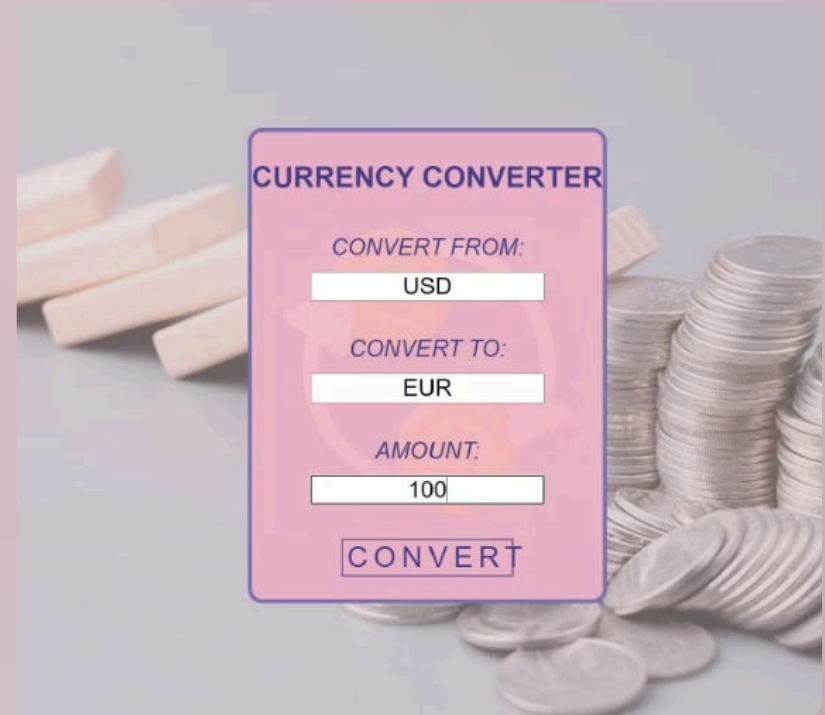


Currency Converter Web Application

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 **by ReDi - Python Foundation**



Project Overview

1 Objective

Provide a web-based tool for converting currency amounts using skills learned during the ReDi Python Foundation

2 Key Features

Input validation for currencies and amounts, real-time exchange rate retrieval, and a simple and user-friendly web interface.

3 Technologies

Git/GitHub, Python, Flask, Fixer API, HTML/CSS



Application Architecture

Modular Components

- `currency_validation.py`
- `amount_validation.py`
- `currency_converter.py`
- `main.py`
- `allinone.py`

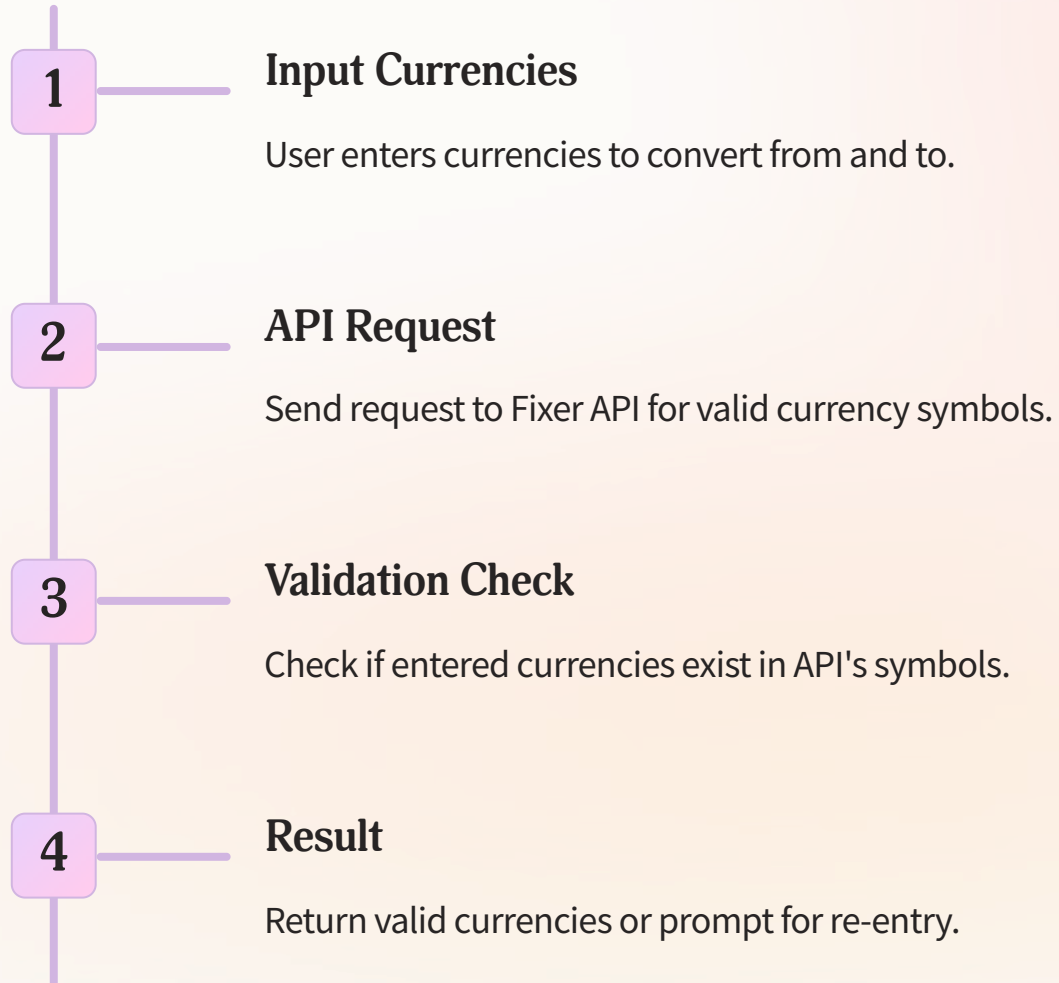
Framework

Flask for web server

External API

Fixer API for real-time currency rates

Currency Validation



Amount Validation

Purpose

Ensure the input amount is a valid positive number.

Input

User enters the amount to be converted.

Validation

Check if input is a positive float.

Result

Return valid amount or prompt for re-entry.

Currency Conversion Logic



Running the Application

1

Setup

Ensure all modules are in the same directory.

2

Execution

Run the Flask application with `python main.py`.

3

Access

Open the web app at `http://127.0.0.1:5000`.



Web Interface and User Experience

HTML Form

Includes input fields for 'Convert from', 'Convert to', and 'Amount', along with a 'Convert' button.

Flask Route

Handles GET and POST requests, processes form inputs, and renders the result.

User Interaction

Users input currencies and amount, submit the form, and receive the converted amount.