Deploying your Python script on a new local computer involves a few systematic steps. Here’s a step-by-step guide to help you set up the environment and install the necessary modules:

**Step-by-Step Deployment Process**

**Step 1: Set Up Python**

1. **Download Python**:
   * Go to the [official Python website](https://www.python.org/downloads/) and download the latest version of Python (preferably 3.8 or higher).
2. **Install Python**:
   * Run the installer and make sure to check the box that says **"Add Python to PATH"** during installation. This will make it easier to run Python from the command line.

**Step 2: Set Up a Virtual Environment (Optional but Recommended)**

Using a virtual environment helps manage dependencies for your project:

1. **Open Command Prompt**:
   * Open the Command Prompt (Windows) or Terminal (Mac/Linux).
2. **Navigate to Your Project Directory**:

bash

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cd path\to\your\project\directory

1. **Create a Virtual Environment**:

bash

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python -m venv venv

1. **Activate the Virtual Environment**:
   * On Windows:

bash

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venv\Scripts\activate

* + On Mac/Linux:

bash

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source venv/bin/activate

**Step 3: Install Required Python Modules**

Your script requires specific libraries to function. Install them using pip:

1. **Install Required Libraries**: Run the following command to install the necessary libraries:

bash

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pip install PyPDF2 reportlab Pillow

Here’s a brief description of each library:

* + **PyPDF2**: For reading and writing PDF files.
  + **reportlab**: For generating PDF files.
  + **Pillow**: For image processing.

**Step 4: Prepare Your Script**

1. **Copy Your Script**:
   * Copy your Python script (usps.py) to the project directory.
2. **Create Input and Output Folders**:
   * Create the input folder (E:\usps\_labels) and output folder (E:\usps output) on the new computer.
   * Make sure to place the USPS label PDFs in the input folder and the address image in the specified location (E:\usps images\address image.png).

**Step 5: Run Your Script**

1. **Ensure the Virtual Environment is Activated**:
   * If you created a virtual environment, make sure it's activated before running the script.
2. **Run the Script**:
   * Execute your script from the command line:

bash

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python usps.py

1. **Check the Output**:
   * After running the script, check the E:\usps output folder for the modified PDF files.

**Step 6: (Optional) Keep Your Environment Updated**

* Periodically check for updates to the libraries you’ve installed:

bash

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pip list --outdated

**Additional Tips**

* **Documentation**: Familiarize yourself with the documentation for the libraries you’re using. It can help you troubleshoot and expand your script in the future.
* **Backup**: Keep a backup of your code and any important files in case you need to transfer them again or revert changes.

By following these steps, you should be able to successfully deploy your USPS label processing script on a new local computer. If you have any specific questions or run into issues during any of these steps, feel free to ask!