This guide explains how to set up and run a Flask web application, including installing the required libraries listed in a file called "requirements.txt".

Before you begin:

Make sure you have Python 3 installed on your computer. You can download it from the official website: Python Website: <https://www.python.org/downloads/>.

You'll also need a text editor to write and edit your code.

**1. Setting Up a Virtual Environment (Recommended):**

A virtual environment helps isolate project dependencies, preventing conflicts with other Python projects on your system. Here's how to create one:

Open a terminal window (often called "Command Prompt" on Windows).

Use the following command, replacing "my\_env" with your desired environment name:

For all Operating Systems:

python -m venv my\_env

Activate the virtual environment (steps differ based on your operating system):

Windows:

Double-click "my\_env\Scripts\activate.bat"

macOS/Linux:

Type: source my\_env/bin/activate

**2. Installing Dependencies from requirements.txt:**

Make sure you have a file named "requirements.txt" within your project directory. This file lists all the necessary Python libraries your Flask app needs to run.

With the virtual environment activated, open a terminal window and navigate to your project directory using the file explorer.

Run the following command to install the dependencies listed in "requirements.txt":

pip install -r requirements.txt

**3. Running the Flask App:**

Locate your main Flask application file, typically named "app.py".

In your terminal window, navigate to the directory containing this file.

Run the following command to start the Flask development server:

flask main.py

This will typically launch the server on your local machine, usually accessible through a web browser at http://127.0.0.1:5000/ (localhost port 5000). Your backend is started

Starting a React Project

This section explains how to set up a new React project using a tool called Create React App.

**Before you begin:**

You'll need Node.js and npm installed on your computer. You can download them together from the official website: Node.js Website: <https://nodejs.org/en/>.

2. Running the React Development Server:

Navigate to project directory:

cd project

To install dependencies

npm install

Start the React development server:

npm start

This will typically launch the server on your local machine, usually accessible through a web browser at http://localhost:3000/. You can now see your React app running in the browser.