

# IntegrAPI Solutions

Welcome to the IntegrAPI Solutions project! This guide will walk you through the steps to set up the project, install dependencies, and get it running on your local machine.

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## Prerequisites

Before you begin, ensure you have the following installed:

1. **Python** (version 3.8 or later)
    - o [Download Python](#) and ensure it's added to your system's PATH.
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## Backend Setup (Flask)

### 1. Set Up a Virtual Environment

Create and activate a virtual environment to manage Python dependencies.

#### On Windows:

```
python -m venv venv  
venv\Scripts\activate
```

#### On macOS/Linux:

```
python3 -m venv venv  
source venv/bin/activate
```

### 2. Install Python Dependencies

Run the following command to install the required Python libraries:

```
pip install -r requirements.txt
```

The requirements.txt includes:

- Flask (for the backend framework)
- Flask-SQLAlchemy (for database ORM)
- Flask-CORS (for cross-origin requests)

If the file doesn't exist, create it with the following content:

Flask==2.3.3

Flask-SQLAlchemy==3.0.5

Flask-CORS==3.0.10

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### Database Setup

1. **Default Database:** The project uses SQLite (a lightweight file-based database). No additional setup is needed.
  2. **Database File:** A file named contacts.db will be created in the project directory automatically.
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### Running the Project

1. **Start the Backend Server:**

```
python server.py
```

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### Troubleshooting

- **Error: ModuleNotFoundError**  
Ensure you installed all dependencies with:

```
pip install -r requirements.txt
```

- **CORS Issues**  
If using a different frontend URL, ensure CORS is enabled in the Flask app:

```
from flask_cors import CORS
```

```
CORS(app)
```

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Feel free to customize this file for your specific project needs! Let me know if you need further clarification or adjustments.