

# MacBook Setup Guide for PsychSync Prototype

## Prerequisites Check

### 1. Check Your Python Version

Open Terminal (Applications → Utilities → Terminal) and run:

```
bash

python3 --version
```

You should see Python 3.x. If not, install it from [python.org](https://python.org)

### 2. Install Homebrew (if you don't have it)

```
bash

/bin/bash -c "$(curl -fsSL https://raw.githubusercontent.com/Homebrew/install/HEAD/install.sh)"
```

### 3. Install Git

```
bash

brew install git
```

### 4. Set Up Virtual Environment

```
bash

# Install virtualenv
pip3 install virtualenv

# Create a project directory
mkdir ~/psychsync-prototype
cd ~/psychsync-prototype

# Create virtual environment
python3 -m venv psychsync_env

# Activate it
source psychsync_env/bin/activate
```

### 5. Install Required Packages

```
bash
```

```
pip install flask
pip install sqlite3
pip install pandas
pip install numpy
pip install scikit-learn
pip install matplotlib
pip install seaborn
```

## VS Code Setup

### 1. Install Python Extension

- Open VS Code
- Go to Extensions (Cmd+Shift+X)
- Search for "Python" by Microsoft
- Install it

### 2. Open Your Project

- File → Open Folder
- Select your `~/psychsync-prototype` folder

### 3. Select Python Interpreter

- Cmd+Shift+P to open command palette
- Type "Python: Select Interpreter"
- Choose the one in your `psychsync_env` folder

## Folder Structure

Create this structure in your project:

```
psychsync-prototype/
├── app.py          # Main Flask application
├── models.py       # Database models
├── personality.py  # Personality assessment logic
├── team_optimizer.py # Basic team matching
├── static/
│   ├── css/
│   └── js/
├── templates/
│   ├── index.html
│   ├── assessment.html
│   └── results.html
└── data/
    └── psychsync.db # SQLite database
```

## Next Steps

1. Complete this setup
2. Test that everything works
3. Start with the basic personality assessment
4. Build incrementally

## Hardware Considerations for 2015 MacBook Pro

- **RAM:** Your laptop likely has 8-16GB RAM, which is sufficient for development
- **Storage:** Make sure you have at least 5GB free space
- **Performance:** We'll keep the AI models lightweight to avoid performance issues
- **Battery:** Development can be power-intensive, keep your charger handy

## Realistic Timeline

- **Week 1:** Environment setup + basic Flask app
- **Week 2:** Simple personality assessment form
- **Week 3:** Basic scoring and results display
- **Week 4:** Simple team matching algorithm
- **Month 2:** Polish UI and add more features

## Important Notes

- Start small and build incrementally
- Don't worry about scalability initially

- Focus on learning and getting something working
- The full production system described would require significant experience and resources