

Crypto Trading Bot Project Guide

Prepared for: Mychael Gray (GitHub: graymychael)

PHASE 1: Local Bot Setup (macOS)

1. Install Requirements:

```
pip install python-binance pandas ta requests streamlit flask
```

2. Clone the Repo:

```
git clone https://github.com/graymychael/crypto-trading-bot-suite.git  
cd crypto-trading-bot-suite
```

Or upload files from: crypto-trading-bot-suite.zip

PHASE 2: Run Desktop GUI App

```
cd gui  
python crypto_bot_gui.py
```

To create a macOS app:

```
pip install pyinstaller  
pyinstaller --onefile --windowed crypto_bot_gui.py
```

.app file will appear in /dist

PHASE 3: Streamlit iPhone Dashboard

```
cd web_dashboard  
streamlit run app.py
```

To deploy:

- Visit <https://share.streamlit.io>
- Connect GitHub and deploy app.py

- Open on iPhone and 'Add to Home Screen'

PHASE 4: Flask API Backend (Replit)

1. Go to <https://replit.com> and create a new Flask Repl.
2. Replace main.py with:

```
from flask import Flask, jsonify, request  
  
app = Flask(__name__)  
  
... (see full code in project)
```
3. Run and get your live API link.

PHASE 5: Telegram Alerts Setup

1. Create bot via @BotFather on Telegram.
2. Use /newbot and get your token.
3. Get your chat ID:

https://api.telegram.org/bot<YOUR_TOKEN>/getUpdates
4. Add your token and chat ID to your code.

PHASE 6: Final Touches

- Store secrets in a .env file
- Add README and LICENSE
- Deploy and maintain repo at github.com/graymychael/crypto-trading-bot-suite

Optional:

- Add auth, analytics, or convert to native iOS app.

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Set Up GitHub Actions for Your Crypto Bot

Automate testing, deployment, or updates using GitHub CI/CD

Step 1: Create a Workflow Folder

1. In your GitHub project directory, create a ``.github/workflows/`` folder.
2. Inside, add a new YAML file, e.g., ``bot-deploy.yml``.

Step 2: Sample Workflow File (bot-deploy.yml)

name: Run Crypto Bot

on:

push:

branches: [main]

schedule:

- cron: '0 * * * *' # Every hour

jobs:

run-bot:

runs-on: ubuntu-latest

steps:

- uses: actions/checkout@v3

- name: Set up Python

uses: actions/setup-python@v4

with:

python-version: 3.10

- name: Install dependencies

run: |

pip install -r requirements.txt

- name: Run the bot

run: |

```
python gui/crypto_bot_gui.py
```

Step 3: Push to GitHub

Once the file is created locally:

1. Save it to `.github/workflows/bot-deploy.yml`

2. Commit and push:

```
git add .github/workflows/bot-deploy.yml
```

```
git commit -m "Add GitHub Actions workflow"
```

```
git push
```

Step 4: Check Actions Tab

- Go to your GitHub repo
- Click the 'Actions' tab
- You'll see the job run on every push or hourly as scheduled

Notes & Tips

- You can add environment variables in the Secrets tab (for API keys).
- Modify the ``cron`` expression to change the frequency.
- Use Streamlit/Flask workflows to deploy to Render or other platforms.