

Quick Start Guide

Prerequisites Checklist

- ☐ Docker Desktop installed and running
- ☐ Python 3.10+ installed
- ☐ Node.js 18+ installed
- ☐ Code editor (VS Code recommended)

5-Minute Setup

Option 1: Automated Setup (Recommended)

powershell

1. Clone/Download and navigate to project

cd grocery-mate

2. Run automated setup (as Administrator)

.\setup.ps1

3. Start development servers

.\run-dev.ps1

Option 2: Manual Setup

powershell

1. Start Database

```
docker-compose up -d
```

2. Setup Backend

```
cd backend
```

```
python -m venv venv
```

```
.\venv\Scripts\Activate.ps1
```

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

3. Setup Frontend

```
cd ../frontend
```

```
npm install
```

4. Seed sample data (optional)

```
cd ../backend
```

```
.\venv\Scripts\Activate.ps1
```

```
python seed_data.py
```

5. Start Backend (Terminal 1)

```
cd backend
```

```
.\venv\Scripts\Activate.ps1
```

```
uvicorn app.main:app --reload
```

6. Start Frontend (Terminal 2)

```
cd frontend
```

```
npm run dev
```

Access URLs

- **Frontend:** <http://localhost:5173>
- **Backend API:** <http://localhost:8000>
- **API Documentation:** <http://localhost:8000/docs>

First Steps in the App

1. **Dashboard** - See overview of your inventory
2. **Ingredients** - Click "Add Ingredient" to add your first item
3. **Shopping Lists** - Create a new shopping list
4. **Recipes** - Click "Load Sample Recipes" to see examples
5. **Find Matching Recipes** - Discover recipes based on your ingredients

Common Commands

Backend

powershell

Activate virtual environment

.\venv\Scripts\Activate.ps1

Start server

uvicorn app.main:app --reload

Seed sample data

python seed_data.py

Frontend

powershell

Install dependencies

npm install

Start dev server

npm run dev

Build for production

npm run build

Database

powershell

Start database

docker-compose up -d

Stop database

docker-compose down

View logs

docker-compose logs -f

Reset database (deletes all data!)

docker-compose down -v

docker-compose up -d

Troubleshooting Quick Fixes

Backend won't start

```
powershell  
  
cd backend  
.\venv\Scripts\Activate.ps1  
pip install -r requirements.txt --force-reinstall
```

Frontend won't start

```
powershell  
  
cd frontend  
rm -r node_modules  
npm install
```

Database connection error

```
powershell  
  
docker-compose down  
docker-compose up -d  
# Wait 5 seconds then try again
```

Port already in use

- Backend: Change port in `uvicorn app.main:app --reload --port 8001`
- Frontend: Vite will auto-assign next available port

Sample Data

Run this to populate with sample data:

```
powershell  
  
cd backend  
.\venv\Scripts\Activate.ps1  
python seed_data.py
```

This adds:






- 16 sample ingredients (vegetables, fruits, dairy, meat)
- 5 healthy recipes
- Items in both Fridge and Pantry

- Some items expiring soon (for testing alerts)

Project Structure

```
grocery-mate/
├── backend/      # Python FastAPI
│   ├── app/
│   │   ├── routers/ # API endpoints
│   │   ├── models.py # Database models
│   │   ├── main.py  # App entry
│   │   └── seed_data.py # Sample data
│   └──
├── frontend/     # Vue.js + Vite
│   ├── src/
│   │   ├── views/  # Pages
│   │   └── services/ # API calls
│   └── package.json
└──
└── docker-compose.yml # Database config
```

Next Steps

1.  Complete the setup
2.  Customize the UI with Tailwind CSS
3.  Add new features (see README.md for ideas)
4.  Learn Vue.js components
5.  Deploy your app (tutorial coming soon)

Need Help?

- Check API docs: <http://localhost:8000/docs>
- Read full README.md for detailed info
- Review error messages carefully
- Make sure Docker Desktop is running

Happy coding! 