🚀 Deploy Your Inventory Tracker to Railway

Step 1: Prepare Your Files

Create a new folder and add these files:

1. **app.py** - Main Flask application

2. **requirements.txt** - Python dependencies

3. **railway.toml** - Railway configuration

4. **templates/** folder with all HTML templates:

   - base.html

   - index.html

   - add_item.html

   - item_detail.html

   - bulk_upload.html

   - scan.html

Step 2: Deploy to Railway

Option A: GitHub (Recommended)

1. **Create GitHub Repository:**

   - Go to GitHub.com

   - Create new repository called `inventory-tracker`

   - Upload all your files

2. **Deploy on Railway:**

   - Go to Railway.app

   - Sign up/login with GitHub

   - Click "New Project"

   - Select "Deploy from GitHub repo"

   - Choose your `inventory-tracker` repository

   - Railway will automatically detect it's a Python app and deploy!

Option B: Railway CLI

1. **Install Railway CLI:**

```bash
```

```
npm install -g @railway/cli
```

2. **Login and Deploy:**

```bash
railway login
railway init
railway up
```

Step 3: Your App Features

✅ What's Included:

- 📱 **Responsive Design** - Works on phone, tablet, PC
- ➕ **Add Items** - Single item entry with categories, locations
- ☁️ **Bulk Upload** - CSV upload for multiple items at once
- 🔍 **Search & Filter** - Find items by name, location, category
- 📱 **QR Codes** - Auto-generated for each item
- 📊 **Inventory Tracking** - Check in/out items with history
- ⬇️ **Export/Import** - Download CSV template and export data

📁 CSV Upload Format:

Your CSV should have these columns (only `name` is required):

```csv
name,description,category,location,quantity
Screwdriver Set,Phillips and flathead screwdrivers,Tools,Garage,1
Laptop Charger,Dell 65W USB-C charger,Electronics,Office,2
```

🔧 Automatic Features:

- **Unique IDs** - 8-character codes generated automatically
- **QR Codes** - Created for every item for easy scanning
- **Transaction History** - Tracks all check-ins/check-outs
- **Database** - SQLite database created automatically

Step 4: Access Your App

Once deployed, Railway will give you a URL like: `https://your-app-name.up.railway.app`

You can access this from:

- 💻 **PC/Laptop** - Full web interface
- 📱 **Phone** - Mobile-optimized interface
- 🖥️ **Any device** - Works in any web browser

Step 5: Using the App

1. **Add Items:**
   - Single items: Use "Add Item"
   - Multiple items: Use "Bulk Upload" with CSV

2. **Track Items:**
   - Click on any item to see details
   - Use QR scanner to quickly find items
   - Check items in/out with quantity tracking

3. **Organize:**
   - Filter by location (Home, Car, Office, etc.)
   - Filter by category (Tools, Electronics, etc.)
   - Search by name or description

💡 Pro Tips:

- Use consistent location names for better organization
- Download the CSV template for bulk uploads
- Each item gets a printable QR code for physical labeling
- Export your inventory regularly for backups
- Access works offline for viewing (data sync when online)

🔒 Data Security:

- Your data stays in your Railway database
- SQLite database is automatically created
- No external data sharing
- You can export all data anytime

📊 Free Usage:

Railway free tier includes:

- $5 free credits monthly
- Enough for personal inventory tracking

- Automatic scaling and SSL

- Custom domain support

Ready to deploy? Just follow the steps above! 🚀