# 🚀 Quick Start Guide - Invoice Generator API

Get your invoice API up and running in 10 minutes!

# **Prerequisites**

- Python 3.11+
- pip
- Git (optional)

# Installation (5 minutes)

### **Step 1: Clone or Download**

```
bash

# Option A: Clone from Git
git clone https://github.com/yourusername/invoice-api.git
cd invoice-api

# Option B: Download and extract ZIP
# Then cd into the directory
```

## **Step 2: Create Virtual Environment**

```
bash

# Create venv
python -m venv venv

# Activate venv
# On Linux/Mac:
source venv/bin/activate

# On Windows:
venv\Scripts\activate
```

## **Step 3: Install Dependencies**

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

## **Step 4: Configure Environment**

```
bash

# Copy example env file
cp .env.example .env

# Edit .env with your settings
# Minimum required:
# - SECRET_KEY (generate a random string)
# - EMAIL HOST, EMAIL PORT, EMAIL USERNAME, EMAIL PASSWORD
```

#### Generate SECRET\_KEY:

bash

python -c "import secrets; print(secrets.token urlsafe(32))"

## **Step 5: Initialize Database**

bash

# Create database tables
python -c "from app.database import init db; init db()"

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## **Development Mode**

bash

uvicorn app.main:app --reload --host 0.0.0.0 --port 8000

#### **Production Mode**

bash

uvicorn app.main:app --host 0.0.0.0 --port 8000 --workers 4

API is now running at: <a href="http://localhost:8000">http://localhost:8000</a>

# E Test the API (4 minutes)

## **Option 1: Using Swagger UI (Easiest)**

- 1. Open <a href="http://localhost:8000/docs">http://localhost:8000/docs</a> in your browser
- 2. Click on **POST /auth/register**
- 3. Click "Try it out"
- 4. Enter your details and click "Execute"
- 5. Copy the response
- 6. Now try POST /auth/login to get your token
- 7. Click the "Authorize" button at the top
- 8. Paste your token and authorize
- 9. Now you can test all endpoints!

### **Option 2: Using cURL**

#### 1. Register a User

```
bash

curl -X POST http://localhost:8000/auth/register \
-H "Content-Type: application/json" \
-d '{

"email": "john@example.com",

"username": "john_doe",

"password": "securepass123",

"full_name": "John Doe",

"company_name": "Freelance Pro"
}'
```

#### **Response:**

```
json
{
  "id": 1,
  "email": "john@example.com",
  "username": "john_doe",
  "payment_link": "https://pay.yourdomain.com/pay/john_doe-1",
  ...
}
```

#### 2. Login

```
bash

curl -X POST http://localhost:8000/auth/login \
  -H "Content-Type: application/json" \
  -d '{
    "username": "john_doe",
    "password": "securepass123"
    }'
```

### **Response:**

```
json
{
   "access_token": "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9...",
   "token_type": "bearer",
   "expires_in": 1800
}
```

**Save your token!** You'll need it for all other requests.

### 3. Create Your First Invoice

```
bash
TOKEN="your_token_here"
curl -X POST http://localhost:8000/invoices/generate \
 -H "Authorization: Bearer $TOKEN" \
 -H "Content-Type: application/json" \
 -d '{
  "client name": "ACME Corporation",
  "client email": "billing@acme.com",
  "client_phone": "+212600123456",
  "language": "ar",
  "currency": "MAD",
  "items": [
     "name": "Web Development",
     "description": "E-commerce website",
     "quantity": 1,
     "price": 15000
   },
     "name": "SEO Services",
     "quantity": 3,
     "price": 2000
   }
  1,
  "tax rate": 20,
  "discount rate": 10,
  "notes": "Payment within 30 days"
 }'
```

#### **Response:**

```
json
{
   "id": 1,
   "invoice_number": "INV-20251002-1234",
   "total": 22680,
   "pdf_path": "./static/invoices/invoice_INV-20251002-1234.pdf",
   "payment_link": "https://pay.yourdomain.com/pay/john_doe-1?invoice=INV-20251002-1234",
   ...
}
```

#### 4. Download the PDF

```
bash

curl -X GET http://localhost:8000/invoices/1/download \
-H "Authorization: Bearer $TOKEN" \
--output my_invoice.pdf
```

Open (my\_invoice.pdf) - you'll see a beautiful bilingual invoice! 🎉

### 5. Send Invoice by Email

```
bash

curl -X POST http://localhost:8000/invoices/1/send-email \
-H "Authorization: Bearer $TOKEN" \
-H "Content-Type: application/json" \
-d '{
   "message": "Thank you for your business!"
}'
```

### What You Can Do Now

✓ Create unlimited invoices ✓ Generate professional PDFs ✓ Send invoices via email ✓ Track invoice status ✓ Get payment links with QR codes ✓ Support both Arabic and English ✓ Multiple currencies

## **■ View Your Dashboard**

```
bash

curl -X GET http://localhost:8000/users/me/stats \
-H "Authorization: Bearer $TOKEN"
```

#### **Response:**

```
| json

{
    "total_invoices": 1,
    "status_breakdown": {
        "draft": 1,
        "sent": 0,
        "paid": 0,
        "cancelled": 0
    },
    "total_revenue": 0,
    "pending_amount": 0
}
```

# Docker Deployment (Optional)

### **Quick Deploy with Docker**

```
bash

# Build and run

docker-compose up -d

# Check logs

docker-compose logs -f

# Stop

docker-compose down
```

# Email Configuration

## **Using Gmail (Free)**

- 1. Enable 2-Factor Authentication on your Gmail account
- 2. Generate an App Password: <a href="https://myaccount.google.com/apppasswords">https://myaccount.google.com/apppasswords</a>
- 3. Update your (.env):

```
env

EMAIL_HOST=smtp.gmail.com

EMAIL_PORT=587

EMAIL_USE_TLS=true

EMAIL_USERNAME=your-email@gmail.com

EMAIL_PASSWORD=your-app-specific-password

EMAIL_FROM=your-email@gmail.com
```

### **Using SendGrid (Recommended for Production)**

- 1. Sign up at <a href="https://sendgrid.com">https://sendgrid.com</a> (Free tier: 100 emails/day)
- 2. Get your API key
- 3. Update your (.env):

```
env

EMAIL_HOST=smtp.sendgrid.net

EMAIL_PORT=587

EMAIL_USERNAME=apikey

EMAIL_PASSWORD=your-sendgrid-api-key

EMAIL_FROM=noreply@yourdomain.com
```

# Troubleshooting

### Issue: "Module not found"

```
# Make sure venv is activated
source venv/bin/activate # Linux/Mac
venv\Scripts\activate # Windows

# Reinstall dependencies
pip install -r requirements.txt
```

#### Issue: "Database error"

```
bash

# Delete old database and recreate
rm invoices.db
python -c "from app.database import init_db; init_db()"
```

## Issue: "Email not sending"

- Check your email credentials in (.env)
- For Gmail, make sure you're using an App Password, not your regular password
- Check spam folder

## Issue: "PDF generation failed"

```
# Install system dependencies (Linux)
sudo apt-get install libpango-1.0-0 libpangoft2-1.0-0

# On Mac
brew install pango

# On Windows, WeasyPrint should work out of the box
```

## Next Steps

- 1. **Read Full Documentation**: See (API\_DOCUMENTATION.md)
- 2. **Customize Templates**: Edit files in (app/templates/)
- 3. Deploy to Production: Use Railway, Render, or your own server
- 4. Publish on RapidAPI: Share your API with the world
- 5. Add Payment Gateway: Integrate Stripe/PayPal (coming soon)

# 💡 Pro Tips

- Save your JWT token it's valid for 30 minutes
- Use environment variables never commit (.env) to Git
- Test with Swagger UI it's the fastest way to test endpoints
- Enable HTTPS in production security first!
- Backup your database regularly backup (invoices.db)

## Congratulations!

You now have a fully functional invoice API running! 🚀

Need help? Check the docs or open an issue on GitHub.

Happy invoicing! 👜