FUNNEL PROJECT

How to do it yourself and save money

Miika Ruutiainen

Page 1: Project Overview – Funnel Project

Project name: Funnel Project - Simple Email Funnel with Flask

Developer: Miika Ruutiainen

Technologies used: Flask, SQLite, Python, HTML/CSS/JS, Gmail SMTP, Render (hosting), GitHub

Goal:

Build a web page where users can subscribe to an email list. Once subscribed, they receive a welcome email automatically.

Key Features:

- **☑** Responsive landing page (HTML/CSS)
 - **✓** AJAX subscription form
- ▼ Email addresses saved to SQLite database
- Automatic welcome email via Gmail SMTP
 - **☑** Public deployment via Render

Page 2: Project Structure

Folder Layout:

```
/funnel-projekti/
— app.py
                           # Flask backend logic
 — templates/
   └─ index.html
                          # Main HTML template
 — static/
   ├─ style.css
                          # CSS styles
   └─ script.js
                         # JS for handling the form
 - media/
    pexels-goumbik.jpg # Image on the landing page
                           # Environment variables (EMAIL_USER, EMAIL_PASS)
  - .env
  - requirements.txt
                           # Python dependencies
 — subscriptions.db
                           # SQLite database (created on runtime)
```

Core Libraries:

Flask – Web framework
smtplib & email.mime – Email sending
sqlite3 – Local database
dotenv – Loading environment variables
gunicorn – WSGI server for deployment on Render

Page 3: Code Examples

Flask route for handling subscriptions:

```
python

@app.route("/subscribe", methods=["POST"])

def subscribe():
    data = request.get_json()
    email = data.get("email")
    if not email:
        return "Missing email", 400

try:
        conn = sqlite3.connect("subscriptions.db")
        c = conn.cursor()
        c.execute("INSERT INTO subscribers (email) VALUES (?)", (email,))
        conn.commit()
    except sqlite3.IntegrityError:
        return "Email already registered.", 400

finally:
        conn.close()

send_welcome_email(email)
    return "Thanks for subscribing!", 200
```

Sending email via Gmail SMTP:

```
def send_welcome_email(to_email):
    subject = "Welcome to our newsletter!"
    body = "Thank you for subscribing. Exciting things ahead!"

    msg = MIMEText(body)
    msg["Subject"] = subject
    msg["From"] = EMAIL
    msg["To"] = to_email

    with smtplib.SMTP_SSL("smtp.gmail.com", 465) as server:
        server.login(EMAIL, PASSWORD)
        server.send_message(msg)
```

Page 4: Deployment & Usage

1. Local Testing:

\$ python app.py

Then open the app at: http://127.0.0.1:5000

2. Push to GitHub:

\$ git add .
\$ git commit -m "Initial commit"
\$ git push origin main

3. Deploy on Render:

Create a new Web Service on render.com.

Connect your GitHub repo.

Set Build Command: pip install -r requirements.txt

Set Start Command: gunicorn app:app

Add environment variables:

EMAIL_USER = your Gmail address

EMAIL_PASS = your Gmail App Password

4. Done!

- **☑** Website is now live at: https://funnel-projekti.onrender.com
- **✓** Users can subscribe and receive automatic welcome emails.