Webs Framework - cPanel/Namecheap Deployment Guide

Quick Start for cPanel Shared Hosting

Step	1:	Up	load	Your	Files	5
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1. Upload the framework file (webs.py) to your domain's root directory (usually (public_html)) 2. Create your application (app.py):							
python							

```
#!/usr/bin/env python3
from webs import webs, Model, Field, render_template
# Create app instance
app = webs(__name__)
# Configure for production
app.config.update({
  'SECRET_KEY': 'change-this-to-a-random-secret-key',
  'DEBUG': False, # Always False in production
  'DATABASE_URL': 'sqlite:///production.db'
})
# Example model
class User(Model):
  username = Field(str, nullable=False, unique=True)
  email = Field(str, nullable=False, unique=True)
  role = Field(str, default='user')
# Routes
@app.route('/')
def home(request):
  return "
  <h1>Welcome to Webs Framework!</h1>
  Your application is running successfully on cPanel.
  <a href="/test">Test Page</a>
@app.route('/test')
def test(request):
  return {
    'message': 'API is working!',
    'framework': 'Webs Production Ready',
    'deployment': 'cPanel Success'
  }
# Freeze ORM for production
app.freeze_orm()
# This is required for Passenger
application = app.wsgi
```

```
if __name__ == '__main__':
    app.run()
```

Step 2: Create Required Files

The framework will auto-generate these files, but here they are manually:

passenger_wsgi.py) (Required for cPanel):

```
python
#!/usr/bin/env python3
import sys
import os

# Add your project directory to Python path
sys.path.insert(0, os.path.dirname(_file__))

# Import your application
from app import app

# Create WSGI application for Passenger
application = app.wsgi
```

(.htaccess) (For subdirectory deployment):

```
apache

RewriteEngine On

RewriteCond %{REQUEST_FILENAME} !-f

RewriteRule ^(.*)$ passenger_wsgi.py/$1 [QSA,L]
```

(requirements.txt) (Empty - zero dependencies!):

```
# Zero dependencies required!# This framework runs on pure Python 3.7+
```

Step 3: Set Permissions

In cPanel File Manager, set permissions:

- (passenger_wsgi.py): 755
- (app.py): 644

- (webs.py): 644
- (.htaccess): 644

Step 4: Configure Python App in cPanel

- 1. Go to "Python Apps" or "Setup Python App" in cPanel
- 2. Click "Create Application"
- 3. Set:
 - **Python Version**: 3.7 or higher
 - Application Root: (/) (or your subdomain folder)
 - Application URL: Your domain or subdomain
 - Application Startup File: passenger_wsgi.py
 - Application Entry Point: (application)

Step 5: Test Your Application

Visit your domain - you should see "Welcome to Webs Framework!"

Advanced Production Setup

Database Configuration

For SQLite (recommended for shared hosting):

```
python
app.config['DATABASE_URL'] = 'sqlite:///production.db'
```

The database file will be created automatically in your application directory.

Environment Variables

Create a (.env) file (not web-accessible):

```
bash

SECRET_KEY=your-super-secret-key-here

DEBUG=False

DATABASE_URL=sqlite:///production.db
```

Then load in your app:

```
python
import os
from webs import webs

app = webs(_name_)

# Load from environment or default
app.config.update({
    'SECRET_KEY': os.environ.get('SECRET_KEY', 'default-secret'),
    'DEBUG': os.environ.get('DEBUG', 'False').lower() == 'true',
    'DATABASE_URL': os.environ.get('DATABASE_URL', 'sqlite:///production.db')
})
```

Security Configuration

```
python

from webs import SecurityHeaders

# Add security middleware
@app.after_request
def add_security_headers(request, response):
    return SecurityHeaders.add_security_headers(request, response)

# Enable CSRF protection for forms
from webs import csrf_protect

@app.route('/form', methods=['POST'])
@csrf_protect
def handle_form(request):
    return "Form processed securely!"
```

Session Management

For production, use database sessions:

python

```
from webs import DatabaseSessionStore

# Use database for sessions (more reliable than memory)

if not app.config.get('DEBUG'):

session_store = DatabaseSessionStore(app._get_db_pool(app))

app.use_session_store(session_store)
```

Complete Production Application Example

	python	
1		•

```
#!/usr/bin/env python3
from webs import (
  webs, Model, Field, Response,
  login_required, roles_required, login_user, logout_user, current_user,
  SecurityHeaders, CORSMiddleware, csrf_protect
import os
# Create app
app = webs(__name__)
# Production configuration
app.config.update({
  'SECRET_KEY': os.environ.get('SECRET_KEY', 'change-this-in-production'),
  'DEBUG': False,
  'DATABASE_URL': 'sqlite:///production.db'
})
# Add monitoring
app.add_monitoring()
# Add CORS support
app.middleware.append(CORSMiddleware(
  allowed_origins=['https://yourdomain.com'],
  allow_credentials=True
))
# Security headers
@app.after_request
def add_security(request, response):
  return SecurityHeaders.add_security_headers(request, response)
# Models
class User(Model):
  username = Field(str, nullable=False, unique=True)
  email = Field(str, nullable=False, unique=True)
  password_hash = Field(str, nullable=False)
  role = Field(str, default='user')
  created_at = Field(str, default=lambda: str(time.time()))
class Post(Model):
  title = Field(str, nullable=False)
  content = Field(str)
```

```
author_id = Field(int, nullable=False)

created_at = Field(str, default=lambda: str(time.time()))

# Routes

@app.route('/')

def home(request):

user = current_user(request)

posts = Post.all(app)[:10] # Latest 10 posts

return f'''

<!DOCTYPE html>
<html>
<ht
```