

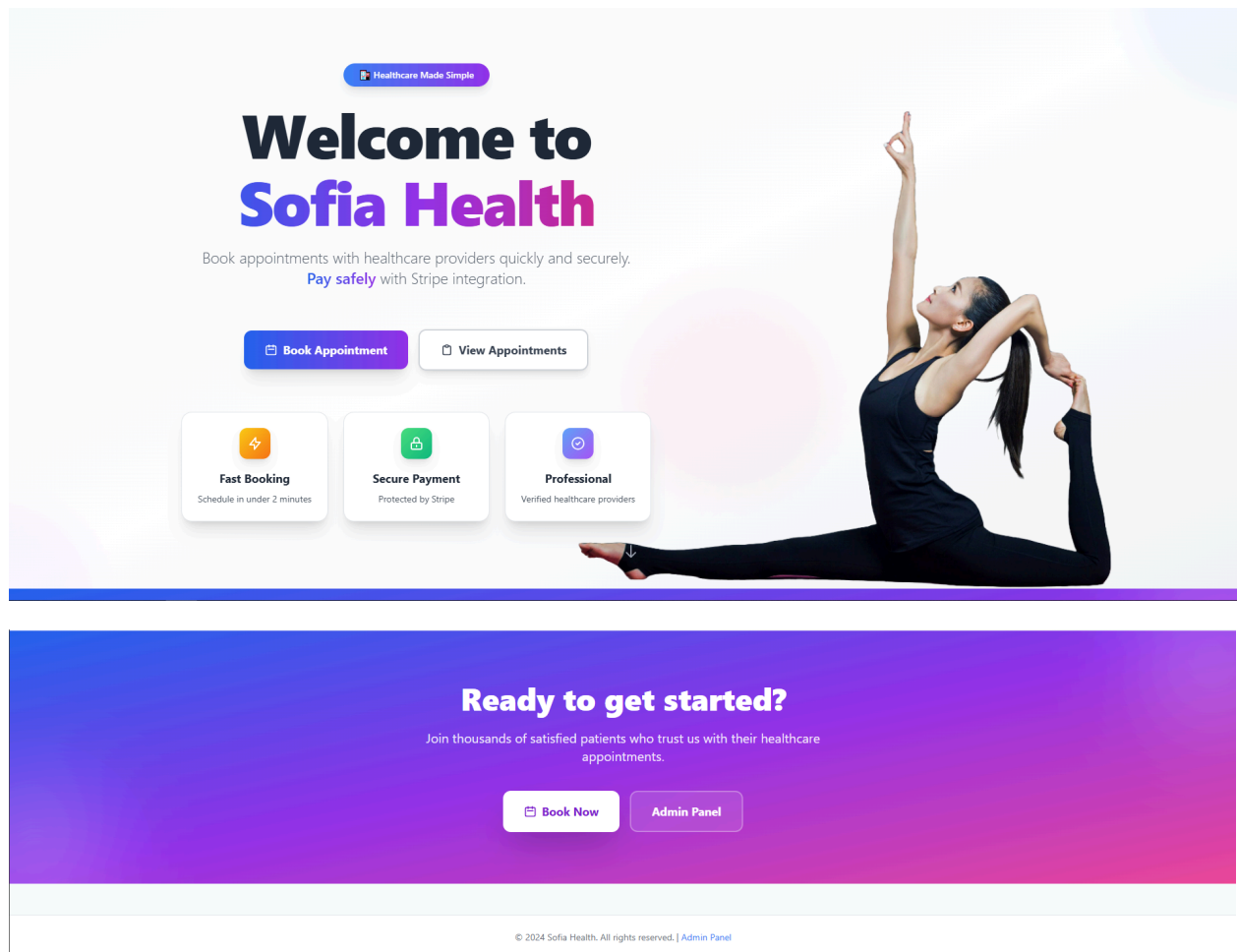
Django Demo Project for

Sofia Health

Developed By Auria Ahmad

Part 1: Core Skills (Hands-On) Visualization

Home Page



Appointment Booking Page

Book an Appointment

Fill in your details to schedule an appointment

Provider Name

Your Email

Appointment Date

<

October 2025

>

Sun	Mon	Tue	Wed	Thu	Fri	Sat
28	29	30	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

Select Time Slot (1-hour sessions)

8:00 AM

9:00 AM

10:00 AM

11:00 AM

12:00 PM

1:00 PM

2:00 PM

3:00 PM

4:00 PM

5:00 PM

6:00 PM

7:00 PM

8:00 PM


9:00 PM

10:00 PM


→ Continue to Payment

Secure payment with Stripe

Payment Page

[Home](#) [Book Appointment](#) [View Appointments](#) [Django Admin](#)

Complete Your Payment

 Secure payment powered by Stripe

Appointment Details

Provider: **Elsa**


Email: **elsa@gmail.com**


Date & Time: **Oct 15, 2025 - 9:00 AM**


Total Amount: **\$50.0**

Payment Information

Card Details

 Card number [Autofill link](#)

 **Pay \$50.0**


 Your payment is secure and encrypted

[Test Mode](#) [Autofill Test Data](#)


Click the button to auto-fill test card details
Card: 4242 4242 4242 4242 | Exp: 02/30 | CVC: 229 | ZIP: 58000

[← Change Appointment](#)

Payment Confirmation



Booking Confirmed!

 Your appointment has been successfully booked and paid

Appointment Details

Provider
Elsa

Your Email
elsa@gmail.com

Appointment Time
Wednesday, October 15, 2025
9:00 AM

Payment Status Paid


What's Next?

- A confirmation email will be sent to elsa@gmail.com
- Please arrive 10 minutes before your appointment time
- Bring a valid ID and insurance card (if applicable)

[Book Another Appointment](#)

[View All Appointments](#)

All Appointments Page















[Home](#) [Book Appointment](#) [View Appointments](#) [Django Admin](#)

All Appointments

View and manage all scheduled appointments

[+ New Appointment](#)

PROVIDER	CLIENT EMAIL	APPOINTMENT TIME	PAYMENT STATUS	CREATED
 Auria Ahmad	oryaofficial@gmail.com	Oct 15, 2025 6:00 PM	 Paid	Oct 02, 2025
 Elsa	elsa@gmail.com	Oct 15, 2025 9:00 AM	 Paid	Oct 02, 2025
 Auria Ahmad	oryaofficial@gmail.com	Oct 14, 2025 5:53 AM	 Paid	Oct 02, 2025
 Ali	ali@gmail.com	Oct 13, 2025 6:00 PM	 Pending	Oct 02, 2025
 asfd	asdfs@g.com	Oct 09, 2025 3:00 PM	 Pending	Oct 02, 2025
 haider	haider@g.com	Oct 08, 2025 7:00 PM	 Paid	Oct 02, 2025

Django Admin

Django administration

WELCOME, ADMIN / VIEW SITE / CHANGE PASSWORD / LOG OUT

[Home](#) > [Appointments](#) > [Appointments](#)

Start typing to filter...

APPOINTMENTS

Appointments [+ Add](#)

AUTHENTICATION AND AUTHORIZATION

Groups [+ Add](#)














Users [+ Add](#)

Select Appointment to change

Q

Search

Action: Go 0 of 13 selected

<input type="checkbox"/>	PROVIDER NAME	CLIENT EMAIL	APPOINTMENT TIME	IS PAID	CREATED AT
<input type="checkbox"/>	Auria Ahmad	oryaofficial@gmail.com	Oct. 15, 2025, 6 p.m.		Oct. 2, 2025, 12:19 a.m.
<input type="checkbox"/>	Elsa	elsa@gmail.com	Oct. 15, 2025, 9 a.m.		Oct. 2, 2025, 8:49 a.m.
<input type="checkbox"/>	Auria Ahmad	oryaofficial@gmail.com	Oct. 14, 2025, 5:53 a.m.		Oct. 2, 2025, 12:54 a.m.
<input type="checkbox"/>	Ali	ali@gmail.com	Oct. 13, 2025, 6 p.m.		Oct. 2, 2025, 12:20 a.m.
<input type="checkbox"/>	asfd	asdfs@g.com	Oct. 9, 2025, 3 p.m.		Oct. 2, 2025, 8:04 a.m.
<input type="checkbox"/>	haider	haider@g.com	Oct. 8, 2025, 7 p.m.		Oct. 2, 2025, 8:29 a.m.
<input type="checkbox"/>	awe	asfd@gms.com	Oct. 3, 2025, 3 p.m.		Oct. 2, 2025, 7:49 a.m.
<input type="checkbox"/>	awe	asfd@gms.com	Oct. 3, 2025, 3 p.m.		Oct. 2, 2025, 7:48 a.m.
<input type="checkbox"/>	haider	haider@g.com	Oct. 3, 2025, 10 a.m.		Oct. 2, 2025, 8:23 a.m.
<input type="checkbox"/>	El	elid@gmail.com	Oct. 3, 2025, 9 a.m.		Oct. 2, 2025, 7:45 a.m.
<input type="checkbox"/>	Dr. Smith	patient@example.com	Oct. 3, 2025, 12:25 a.m.		Oct. 2, 2025, 12:25 a.m.
<input type="checkbox"/>	Dr. Smith	patient@example.com	Oct. 3, 2025, 12:25 a.m.		Oct. 2, 2025, 12:25 a.m.
<input type="checkbox"/>	Dr. Smith	patient@example.com	Oct. 3, 2025, 12:24 a.m.		Oct. 2, 2025, 12:24 a.m.

13 Appointments

FILTER

[Show counts](#)

By is paid

All

Yes

No

By appointment time

Any date

Today

Past 7 days

This month

This year

By created at

Any date

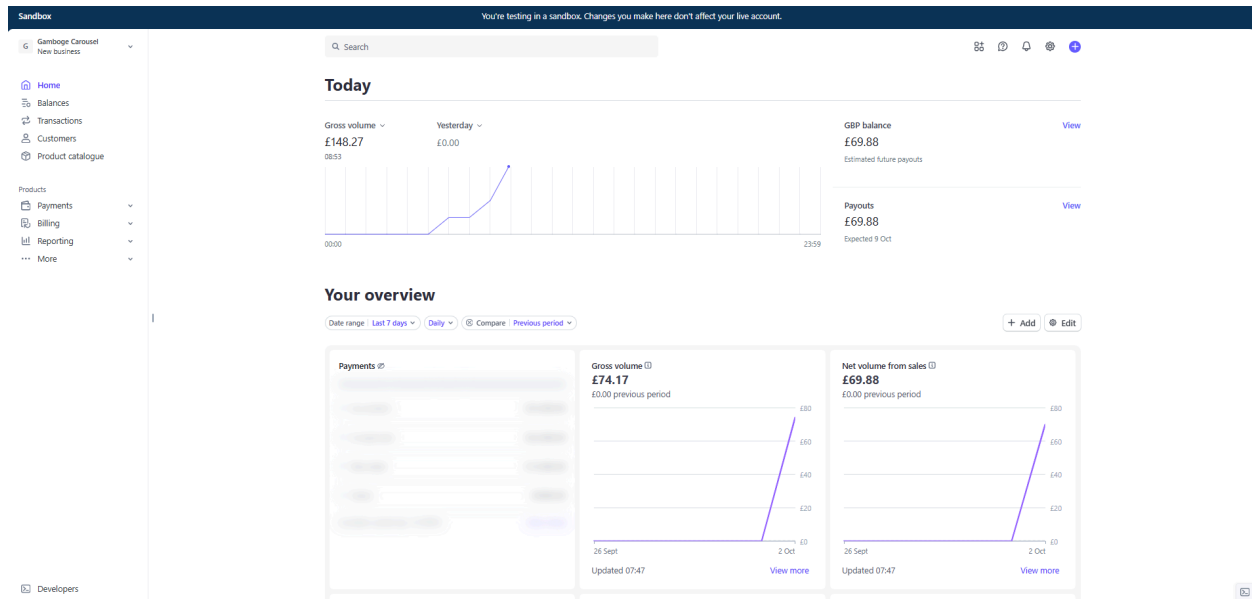
Today

Past 7 days

This month

This year

Stripe Test Payment Dashboard



Part 2: Problem-Solving & Communication

If this appointment feature had to handle thousands of bookings per day, what one or two changes would you make first?

The first change I would make is adding database indexes on frequently queried fields like `appointment_time`, `client_email`, and `is_paid`. This provides immediate performance gains with minimal code changes - just a few lines in the model's Meta class. The second change would be implementing Redis caching for frequently accessed data such as available time slots and provider information. These two optimizations address the most common bottlenecks (slow database queries and repeated computations) before requiring major architectural changes like moving to microservices.

2. How would you communicate progress and blockers to a non-technical founder?

I would use a structured, transparent approach with daily quick Slack updates (30 seconds) covering what I completed, what I'm working on, and any blockers, plus a detailed weekly summary showing accomplishments and upcoming work. When communicating blockers, I'd explain the business impact first (e.g., "We can't launch payments yet because Stripe needs to approve our account"), then offer 2-3 solutions with clear trade-offs and specific timelines rather than vague estimates. I'd also provide short video demos of working features and use visual progress indicators (like "3 out of 5 features complete") instead of technical jargon. This builds trust through transparency while keeping communication concise and actionable for decision-making.

Thank you