

🍴 Restaurant Web Application – Complete User & Developer Manual

Version: 1.0.0 **Framework:** Django 5.2 **Audience:** End Users, Administrators, Developers **Author:** Elton Moraes

📋 Table of Contents

1. [Introduction](#)
 2. [Application Structure](#)
 3. [User Guide](#)
 - Home Page
 - Menu
 - Cart
 - Checkout
 - Orders
 - Profile
 - Feedback
 - Booking Tables
 4. [Admin Guide](#)
 5. [Developer Guide](#)
 - Installation
 - Project Structure
 - Models
 - Routing
 - APIs
 - Debugging
 - Deployment
 6. [Adding Images](#)
 7. [Conclusion](#)
-

★ 1. Introduction

The Restaurant Web Application is a full-featured Django system designed for:

🍔 Displaying restaurant menu items 🍔 Adding items to a cart 🚧 Online ordering ⏱ Order tracking 🧑 Customer User profile management 🎯 Admin dashboard for restaurant management 🗓 Table booking ★ Customer

feedback system

This document explains **how to use the application** as a customer and **how to manage it as an administrator**, followed by a **complete developer guide**.

★ 2. Understanding the Application Structure

The system has three access levels:

🔓 Public Pages

Accessible without login:

- Home
 - Menu
 - About
 - Feedback
 - Book Table
 - Contact
 - Login & Register
-

🔒 Authenticated User Pages

Require account login:

- Cart
 - Checkout
 - My Orders
 - User Profile
 - Logout
-

🛠 Admin Pages (staff only)

Require:

```
user.is_staff = True
```

Includes:

- Admin Dashboard
- Manage Orders
- Manage Menu Items
- Manage Users
- Manage Table Bookings

- Manage Feedback
-

★ 3. Using the Application (User Guide)

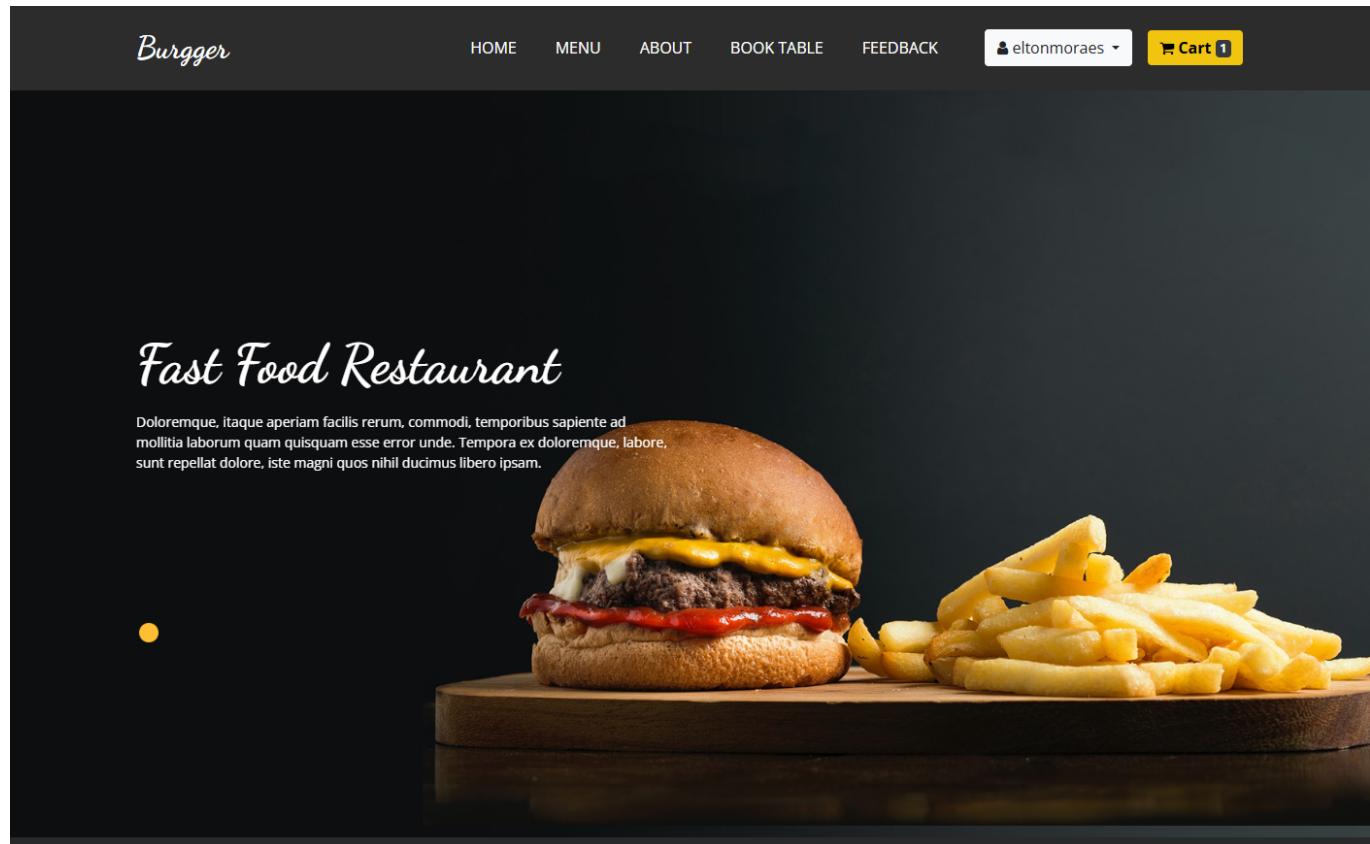
Below are step-by-step instructions for **every screen** the customer interacts with.

⌚ 3.1 Home Page

Displayed when entering the site.

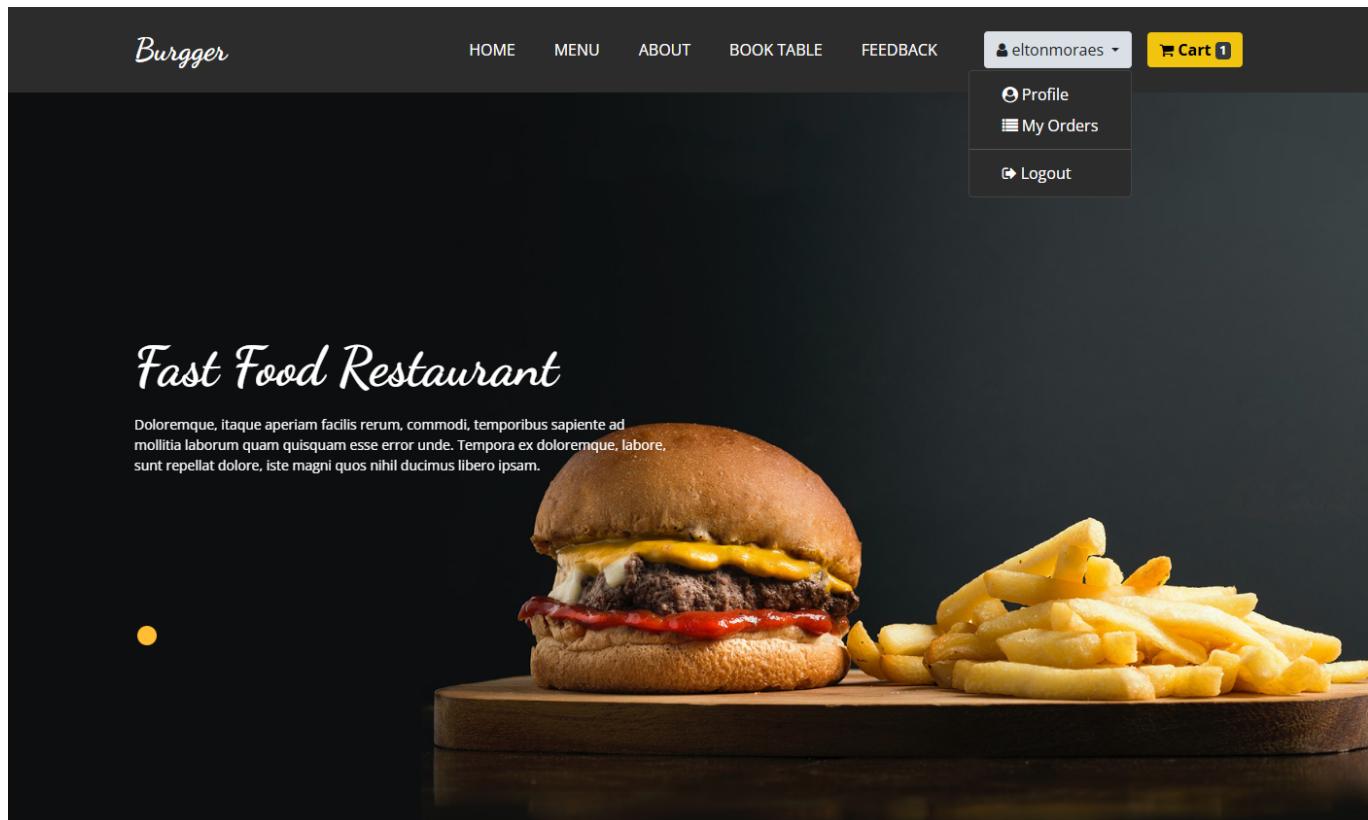
Includes:

- Large welcoming hero banner
- Restaurant highlights
- Featured dishes
- Testimonials
- Links to booking and ordering



Top navigation bar shows:

Button	Description
Home	Main landing page
Menu	Shows all dishes
About	About the restaurant
Book Table	Reservation page
Feedback	Leave review
Login/Register	Authentication
Cart	Opens user shopping cart
User Dropdown	Profile, My Orders, Admin Dashboard



🍔 3.3 **Menu Page - Browsing Items**

Shows food items with:

- Photo
- Title
- Description
- Price
- Add to Cart button

User actions:

1. Scroll through categories
2. Click **Add to Cart**

3. Confirmation message appears

[IMAGE: menu_page]

🛒 3.4 **Shopping Cart Page**
Displays a list of all items the user added.

Includes:

- Item name
- Price
- Quantity (modify using + / - buttons)
- Total per item
- Remove button
- Grand total
- Checkout button

The screenshot shows the Burger website's shopping cart page. At the top, there is a dark navigation bar with the logo "Burger" and links for HOME, MENU, ABOUT, BOOK TABLE, FEEDBACK, a user account dropdown, and a yellow "Cart" button with a notification icon. Below the navigation bar, the page title "Your Cart" is displayed. A table lists the items in the cart: "Tasty Burger" at \$12 with a quantity of 6 (modifiable via minus and plus buttons), totaling \$72.00. A red "Remove" button is next to the row. Below the table, the total amount "Total: \$72" is shown, followed by a green "Proceed to Checkout" button. At the bottom of the page, there are sections for "Contact Us", "Feane", and "Opening Hours".

Item	Price	Quantity	Total	Action
Tasty Burger	\$12	- 6 +	\$72.0	Remove

Total: \$72

[Proceed to Checkout](#)

Contact Us

📍 Location
📞 Call +01 1234567890
✉️ demo@gmail.com

Feane

Necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with

Opening Hours

Everyday
10.00 Am -10.00 Pm

© 2025 All Rights Reserved By Free Html Templates

Actions:

- Increase quantity
 - Decrease quantity
 - Remove item
 - Proceed to Checkout
-

📄 3.5 **Checkout Page**

Summarizes the order:

- Items
- Quantities
- Prices
- Grand Total
- Place Order button

On clicking **Place Order**:

- Order object is created
- OrderItem objects are created
- Cart automatically clears
- User sees **Order Summary**

The screenshot shows the Burgger website's checkout page. At the top, there is a navigation bar with links for HOME, MENU, ABOUT, BOOK TABLE, FEEDBACK, a user account dropdown, and a yellow 'Cart' button with the number '1'. Below the navigation bar, the word 'Checkout' is written in a cursive font.

Item	Qty	Price	Total
Tasty Burger	6	\$12	\$72.0

Total: \$72

[Continue to Payment](#)

Contact Us

- 📍 Location
- 📞 Call +01 1234567890
- ✉ demo@gmail.com

Feane

Necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with

Opening Hours

Everyday
10.00 Am -10.00 Pm

[f](#) [t](#) [in](#) [o](#) [p](#)

© 2025 All Rights Reserved By Free Html Templates

📁 3.6 **Order Summary Page**

Shows:

- Order number
- Date
- Payment status
- All items purchased
- Total price

The screenshot shows a dark-themed website for "Burgger". At the top, there's a navigation bar with links for HOME, MENU, ABOUT, BOOK TABLE, FEEDBACK, a user account dropdown (eltonmoraes), and a yellow "Cart" button with the number "1". Below the navigation, the page title "Fake Payment" is displayed in a stylized font. A sub-header states "This is a demo payment gateway." followed by "Total Charge: \$72". There's a small credit card icon and the text "Processing payment...". A message at the bottom says "You will be redirected in 2 seconds...". At the bottom of the page, there are three columns: "Contact Us" with icons for location, phone, and email; "Feane" with a bio about Latin word generation; and "Opening Hours" with everyday availability from 10.00 Am - 10.00 Pm.

📁 3.7 **My Orders Page**

History of all orders the user has made.

Each entry contains:

- Order ID
- Total amount
- Date
- Payment status
- View Details button

Burgger

HOME MENU ABOUT BOOK TABLE FEEDBACK  eltonmoraes  Cart 0

Order Successful 🎉

Order #5

Placed on: Nov. 29, 2025, 3:42 p.m.

Item	Qty	Price	Total
Tasty Burger	6	\$12.00	\$72.0

Total Paid: \$

[Return Home](#)

Contact Us

📍 Location
📞 Call +01 1234567890
✉️ demo@gmail.com

Feane

Necessary, making this the first true generator on the Internet. It uses a dictionary of over 200 Latin words, combined with



Opening Hours

Everyday
10.00 Am -10.00 Pm

 3.8 **User Profile Page**

Shows:

- Username
- Email
- Join date
- Total orders

A screenshot of a website header for "Burger". The header is dark grey with white text. It features the word "Burger" in a stylized font on the left. To the right are navigation links: "HOME", "MENU", "ABOUT", "BOOK TABLE", "FEEDBACK", a user account icon with the text "eltonmoraes", and a yellow "Cart" button with the number "0".

My Profile

User Info

Username: eltonmoraes

Email:

Joined: 29 Nov 2025

Recent Orders

Order #5 — \$72.00 Paid

Order #4 — \$84.00 Paid

A dark footer section with three main items: "Contact Us" (with a phone icon), "Feane" (with a location pin icon), and "Opening Hours" (with a clock icon). Below "Feane" is the text "Necessary, making this the first true generator".

Future features can include editable fields such as phone, address, avatar, etc.

★ 3.9 **Feedback Page**

Form includes:

- Name
- Rating
- Message
- Optional Photo

Appears on the home page carousel.

The screenshot shows the Burgger website's feedback form. At the top, there is a navigation bar with links for HOME, MENU, ABOUT, BOOK TABLE, FEEDBACK, a user account dropdown (eltonmoraes), and a yellow 'Cart' button with a '0' icon. Below the navigation bar, the page title 'Feedback Form' is displayed in a stylized font. A teal-colored success message box contains the text 'You have been logged out successfully.' Below this message are three input fields: 'Your Name', 'Describe your experience here', and a dropdown menu for 'Please Give Us Rating?'. There is also a file upload section labeled 'Upload Image:' with a button to 'Escolher arquivo' (Select file) and a message stating 'Nenhum arquivo escolhido' (No file selected). A large yellow 'SUBMIT' button is located at the bottom left of the form area.

You have been logged out successfully.

Your Name

Describe your experience here

Please Give Us Rating?

Upload Image:

Escolher arquivo Nenhum arquivo escolhido

SUBMIT

3.10 **Table Booking Page**

Reservation form with:

- Name
- Phone
- Email
- Number of people
- Date

The screenshot shows a dark-themed website for 'Burgger'. At the top, there's a navigation bar with links for HOME, MENU, ABOUT, BOOK TABLE, and FEEDBACK. On the right, there's a user account icon for 'eltonmoraes' and a yellow 'Cart 0' button. Below the navigation, a section titled 'Book A Table' contains five input fields: 'Your Name', 'Phone Number', 'Your Email', 'How many persons?' (with a dropdown menu), and 'dd/mm/aaaa' (date). To the right of these fields is a light gray box containing an exclamation mark icon and the text 'Ops! Algo deu errado.' Below this, a smaller message states: 'Esta página não carregou o Google Maps corretamente. Consulte o console JavaScript para ver detalhes técnicos.' At the bottom left of the booking form area is a yellow 'BOOK NOW' button.

Bookings are automatically saved for admin review.

★ **4. Admin Guide**

Accessible only for staff users.

📊 4.1 **Admin Dashboard**

Central management panel showing:

- Total Users
- Total Orders
- Total Menu Items
- Total Reservations
- Total Feedback

The screenshot shows the Admin Dashboard for a burger restaurant. At the top, there's a navigation bar with links for HOME, MENU, ABOUT, BOOK TABLE, FEEDBACK, a user dropdown for 'teste', and a yellow 'Cart' button with a '0' icon. Below the navigation is a section titled 'Admin Dashboard' with four summary boxes: 'Total Users' (5), 'Total Orders' (5), 'Total Revenue' (\$338), and 'Pending Orders' (0). A section titled 'Last 10 Orders' follows, displaying a table of recent orders with columns for ID, User, Total, Status, and Date.

ID	User	Total	Status	Date
5	eltonmoraes	\$72.00	Paid	29/11/2025 15:42
4	eltonmoraes	\$84.00	Paid	29/11/2025 13:54
3	teste	\$20.00	Paid	28/11/2025 19:29
2	teste	\$27.00	Paid	28/11/2025 18:56
1	teste	\$135.00	Paid	28/11/2025 18:55

🍔 4.2 **Manage Menu Items**

Admin can:

- Add new items
- Upload images
- Edit items
- Delete items
- Add categories

[IMAGE: admin_menu_crud]

📋 4.3 **Manage Orders**

Admin sees:

- Order ID
- Customer
- Total
- All items

```
- Payment status
```

Admin may update status such as completed, pending, refunded (optional).

```
## 🕒 4.4 **Manage Table Bookings**
```

Admin can see all bookings and change status if needed.

```
# ★ **5. Developer Guide (FULL)**
```

This section merges the complete README and expands it into a professional development manual.

```
## 🔧 5.1 Installation Steps
```

Clone the repository:

```
```bash
git clone https://github.com/eltonmoraes6/restaurant-django-app.git
cd restaurant-django-app
```

---

## Create Virtual Environment

```
python -m venv venv
venv\Scripts\activate # Windows
source venv/bin/activate # macOS/Linux
```

---

## Install Dependencies

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

---

## Run Migrations

```
python manage.py makemigrations
python manage.py migrate
```

## Create Superuser

```
python manage.py createsuperuser
```

### OR auto-create:

```
python manage.py shell < create_admin.py
```

---

## Start Server

```
python manage.py runserver
```

App: ↗ <http://127.0.0.1:8000/> Admin: ↗ <http://127.0.0.1:8000/admin/>

---

## ▀▀ 5.2 Project Structure

```
restaurant-django-app/
```

```
 └── Base_App/
 ├── models.py
 ├── views.py
 ├── urls.py
 ├── templates/
 ├── static/
 └── forms.py
```

```
 └── Restaurant_Project/
 ├── settings.py
 └── urls.py
```

```
 ├── media/
 ├── static/
 └── requirements.txt
```

```
 README.md
```

---

## ❖ 5.3 Models Summary

- **Items** – menu dishes
- **Cart** – temporary storage before checkout
- **Order + OrderItem** – persistent purchase history
- **BookTable** – reservations

- **Feedback** – customer testimonials
- 

## ✳️ 5.4 Routing Overview

Cart Operations

URL	View
/add-to-cart/	add_to_cart
/cart/	Cart_Page
/increase/<id>/	increase_quantity
/decrease/<id>/	decrease_quantity

---

## 🌐 5.5 API Behavior

Example Cart Add Response

```
{
 "message": "Item added successfully",
 "quantity": 1
}
```

## 📝 5.6 Running Tests

```
python manage.py test
```

## 🐞 5.7 Debugging Tips

Error	Fix
NoReverseMatch	URL name incorrect
ImportError	Wrong import path
TemplateDoesNotExist	Template directory misconfigured

---

## 🚀 5.8 Deployment Guide

Install for production:

```
pip install gunicorn whitenoise
```

Add to middleware:

```
"whitenoise.middleware.WhiteNoiseMiddleware",
```

Run:

```
gunicorn Resturant_Project.wsgi
```

---

## ★ 6. Tips for Adding Images Later

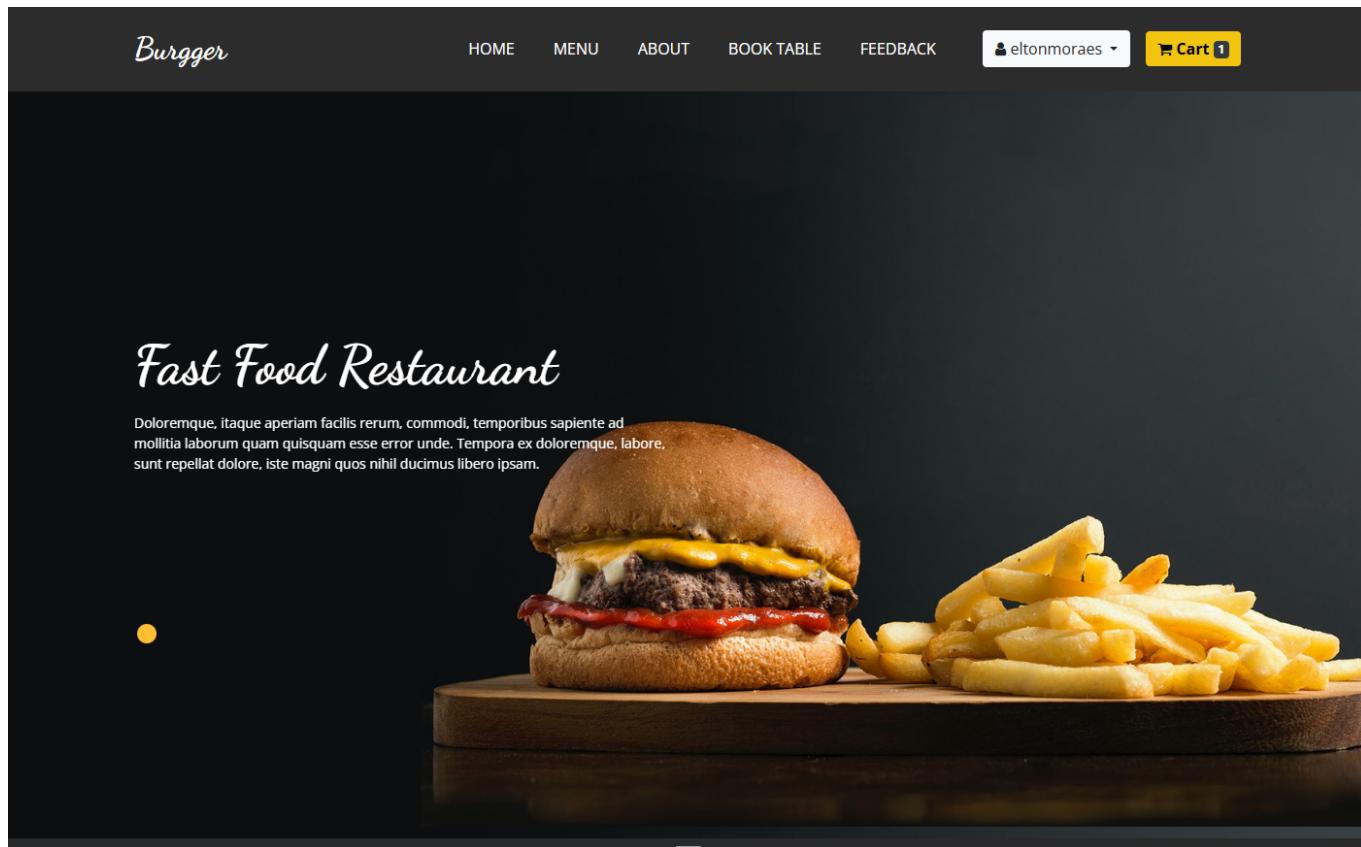
---

Wherever you see:

```
[IMAGE: menu_page]docs/images/menu.png
```

You can insert:

```
![Menu Page](images/menu.png)
```



I can also generate an [/images/](#) folder structure.

---