



# Make My Hotel

Book your favorite hotel

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# Introduction

- Hotel booking website
- Search for your destination across the world
- Find the best hotel at the best prices
- Book your hotel with no hassles



# Features of the Website

- Users can sign up and log in
- Submission throttling for the search boxes
- Auto fills user details in the booking page
- Displays all confirmed details before payment
- Allows printing of booking
- Shows sentiment statistics of reviews for hotels
- Allows past guests to write reviews



# Frameworks

- Django for the backend processing
- JavaScript for some parts of the back-end too
- HTML/CSS and Django Template Language for front-end
- Bootstrap for front-end design
- jQuery for personalizing the datepicker
- Django's in-built support for RESTful APIs
- SQLite3 for the database



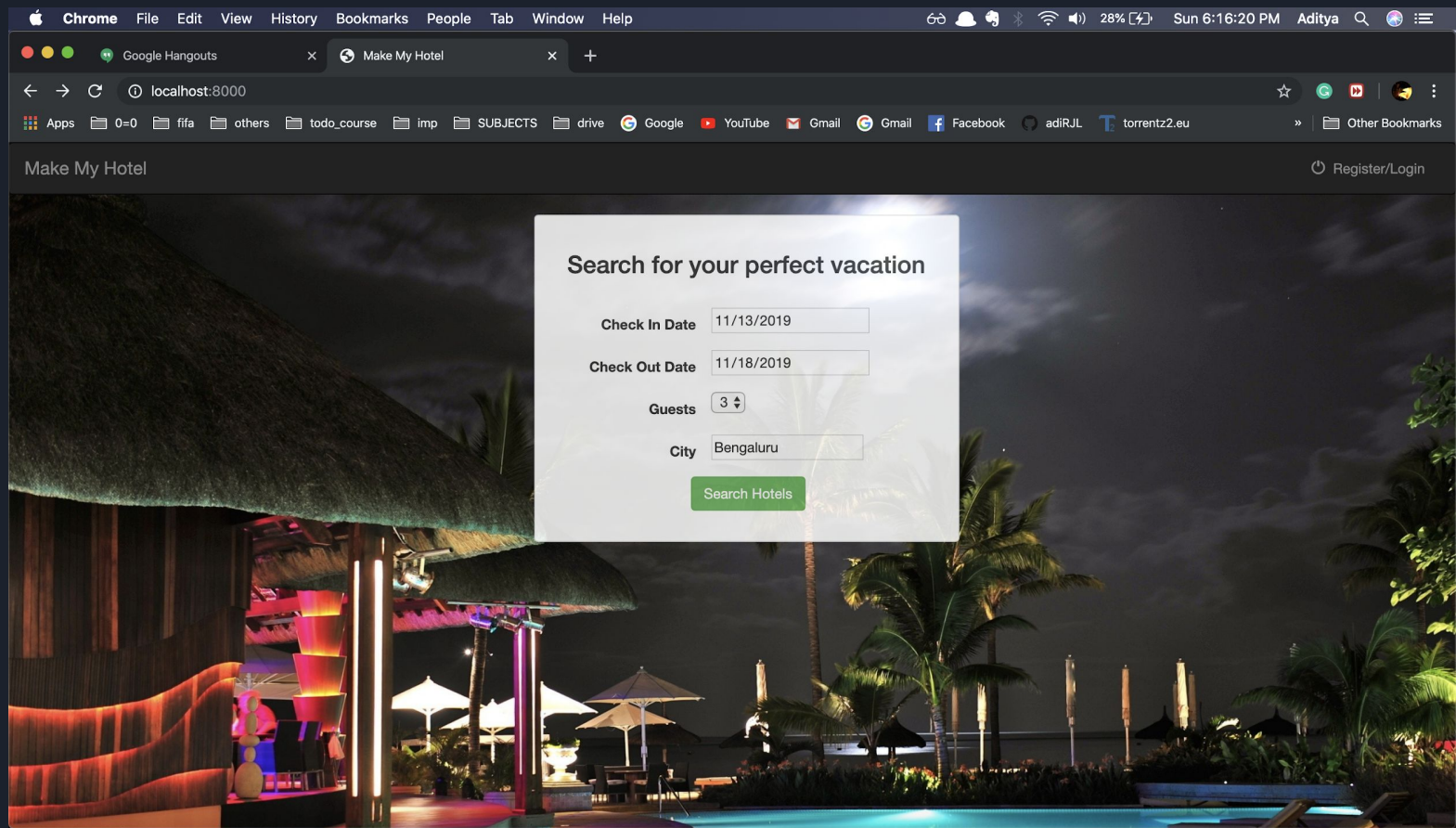
# AJAX Patterns and Microservices

- All functionality implemented as microservices
- **REST APIs** for communications between the microservices
- **Submission throttling** to retrieve search results in the search page itself
- XHR was used for making the *AJAX* request

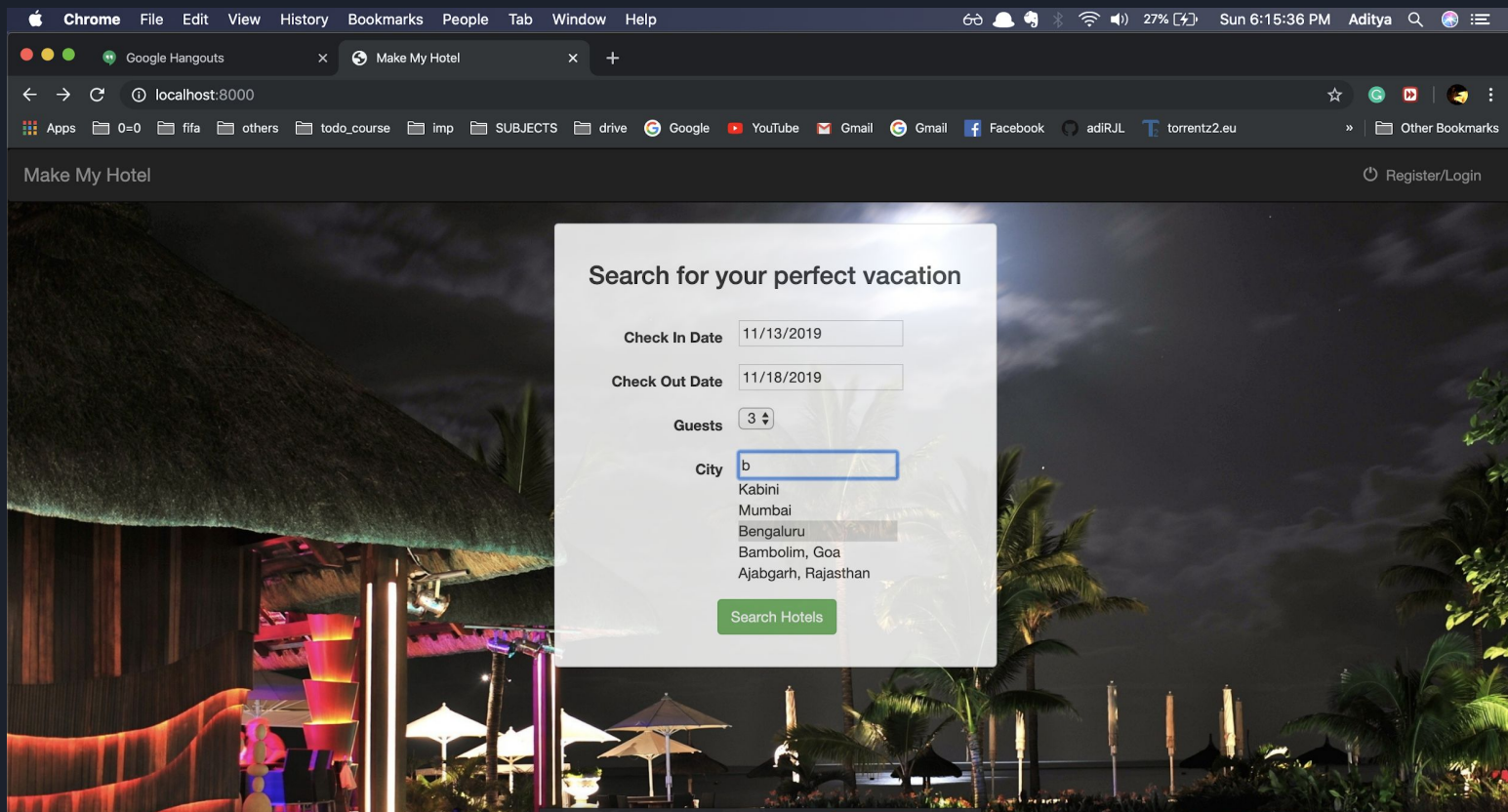


# Intelligent Component - Sentiment Analysis

- Website retrieves all reviews for each hotel from database
- Performs sentiment analysis on the reviews
- Classifies them into positive, neutral and negative
- Displays percentage of reviews in each category
- Dynamically updates sentiment as and when a review is posted by the user



Homepage






Submission Throttling example - shows list of cities when a letter is typed

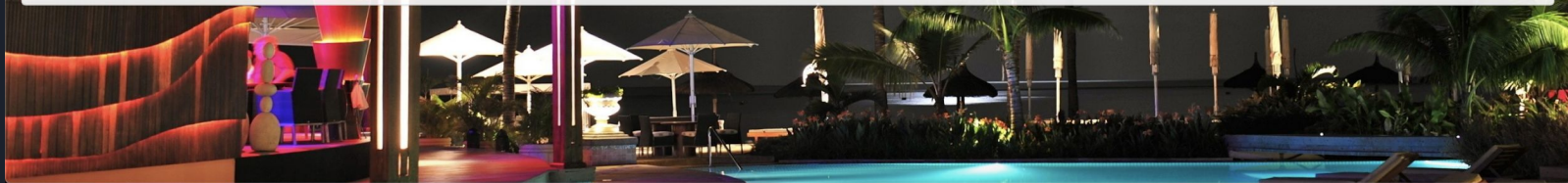


localhost:8000/search

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Make My Hotel Register/Login


Image	Name	City	Address	Rooms
	The Leela Palace	Bengaluru	HAL Old Airport Rd	16
	ITC Gardenia	Bengaluru	Residency Rd	12
	Taj West End	Bengaluru	Race Course Road	14



Search Page - for choosing your Hotel

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Hotel Name

ITC Gardenia

Check In Date

11/13/2019

Check Out Date

11/18/2019

Room Type

Deluxe

Price

Rs. 8500.0

Guests: 3

Reviews Sentiment

Postive25%

Neutral37%

Negative37%

Customer Reviews

Attended a technical conference at the luxurious hotel. The grand hotel has a plush interiors and excellent conference rooms. The staff was young, cordial, energetic, and professional.

Dirty curtains. Stained walls. Musty odour and pesticide smell in bed.

The drivers Washroom is very bad condition so please can you make it improve.and otherwise it's good.

The food was horrible so was the service. Definitely not going again.

Book Hotel

Selection Page - for choosing Deluxe/Suite and Check-out/in dates

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Make My Hotel x +

localhost:8000/payment ☆

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### User Details for Booking

First Name:

Last Name:

Age:

Gender:

Address:

City:

Zip Code:

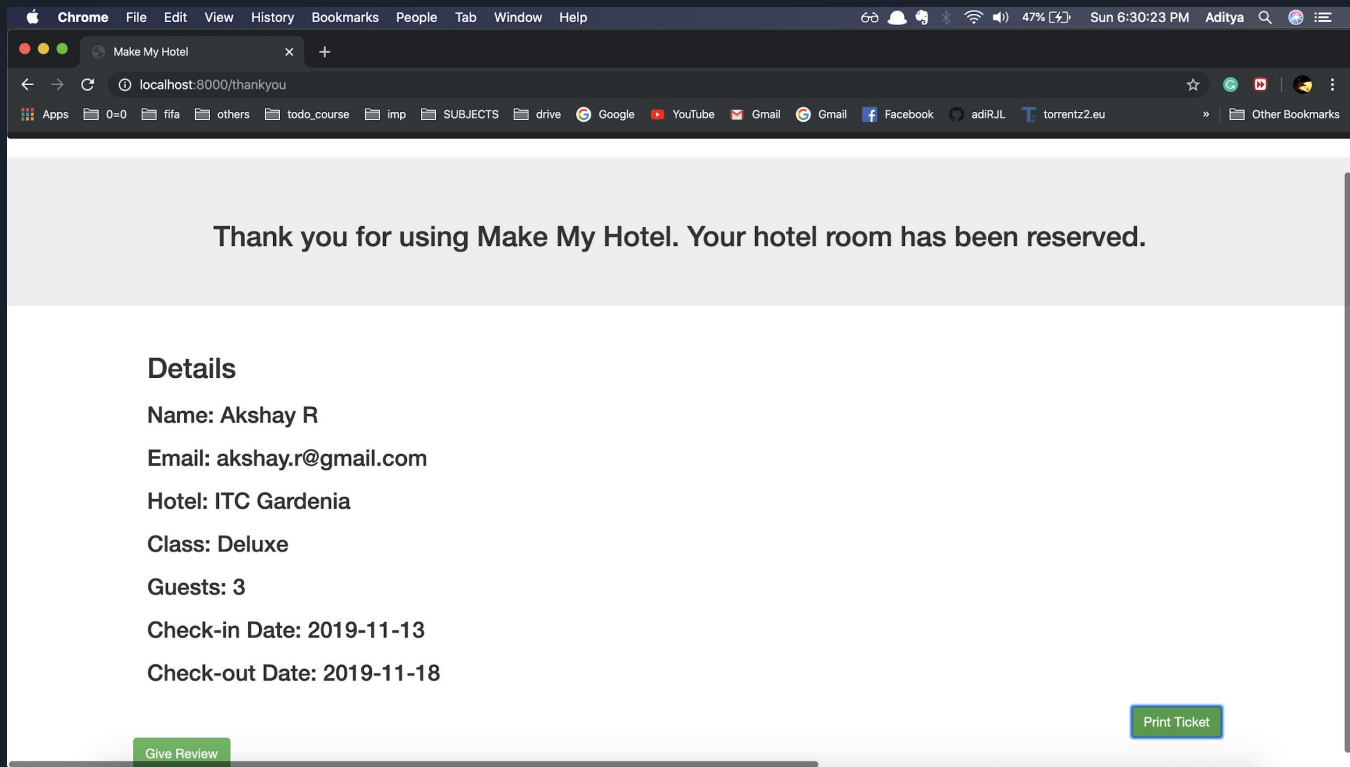
Check-in Date:

Check-out Date:

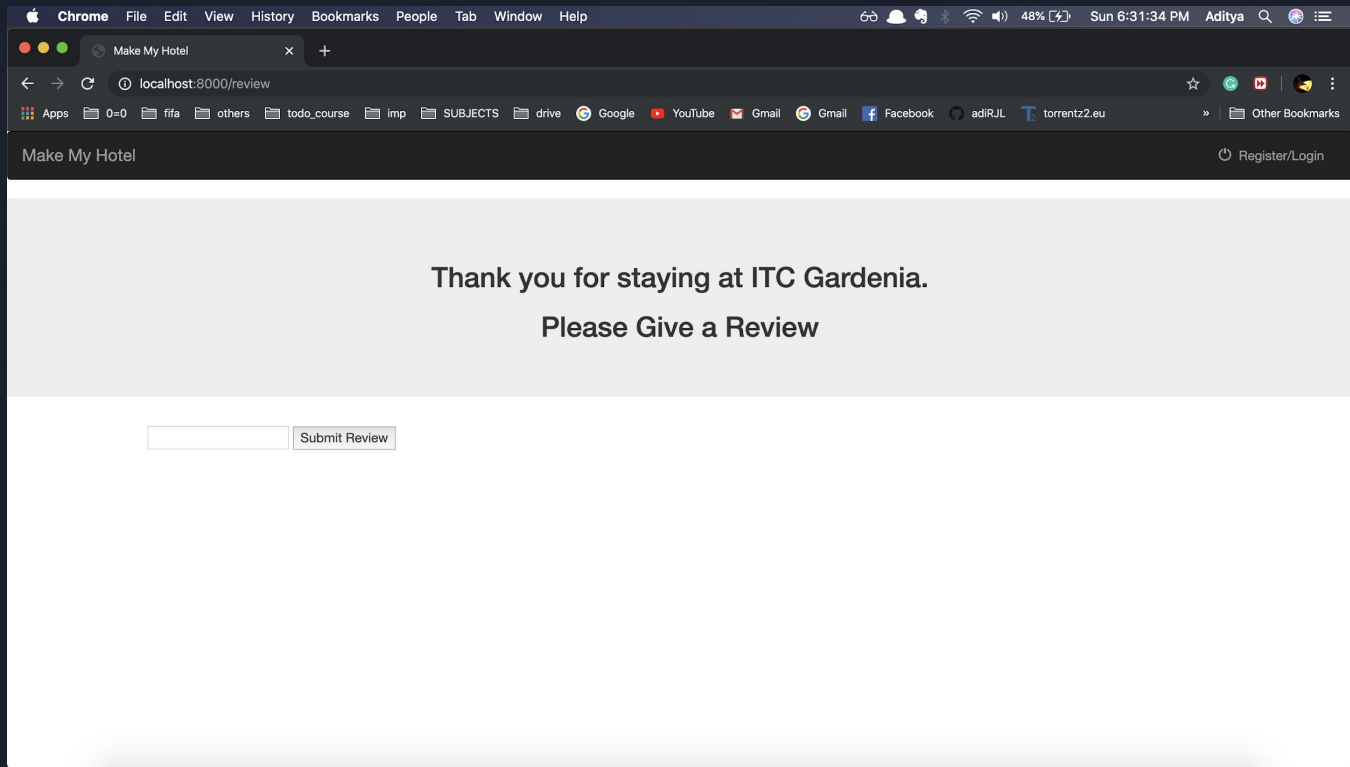
Hotel Name:

Email ID:

User Details - for entering details, also has pre-filled fields



Ticket and Confirmation Page



Review Page - enter a review for the hotel

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Make My Hotel

localhost:8000/login

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Make My Hotel Register/Login

### Already a member?

Username

Password

Login

Login Page

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Register

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Make My Hotel Register/Login

### Register for an Account

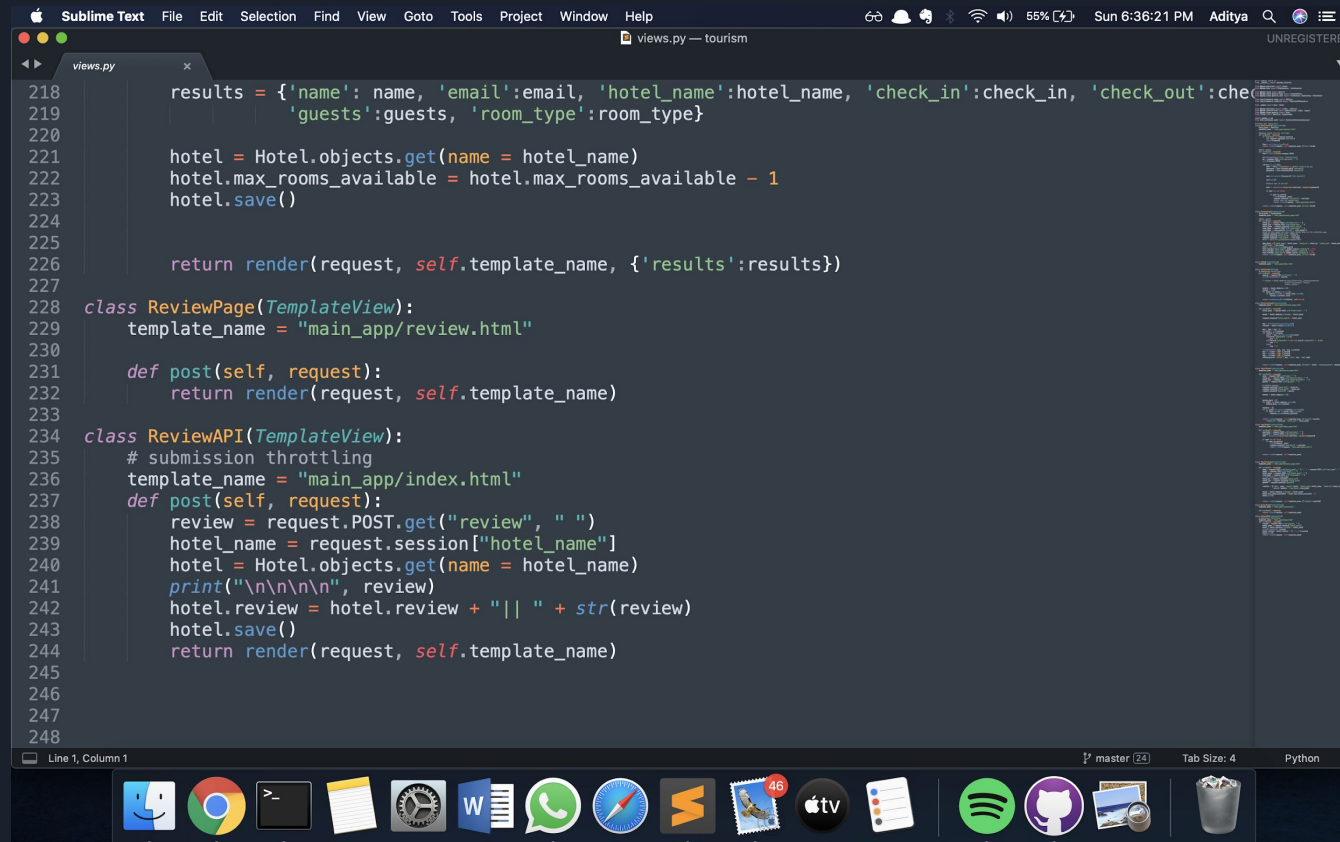
Username:

Email address:

Password:

Already have an account? [Click here](#) to log in.


Register Page



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views.py — tourism  UNREGISTERED

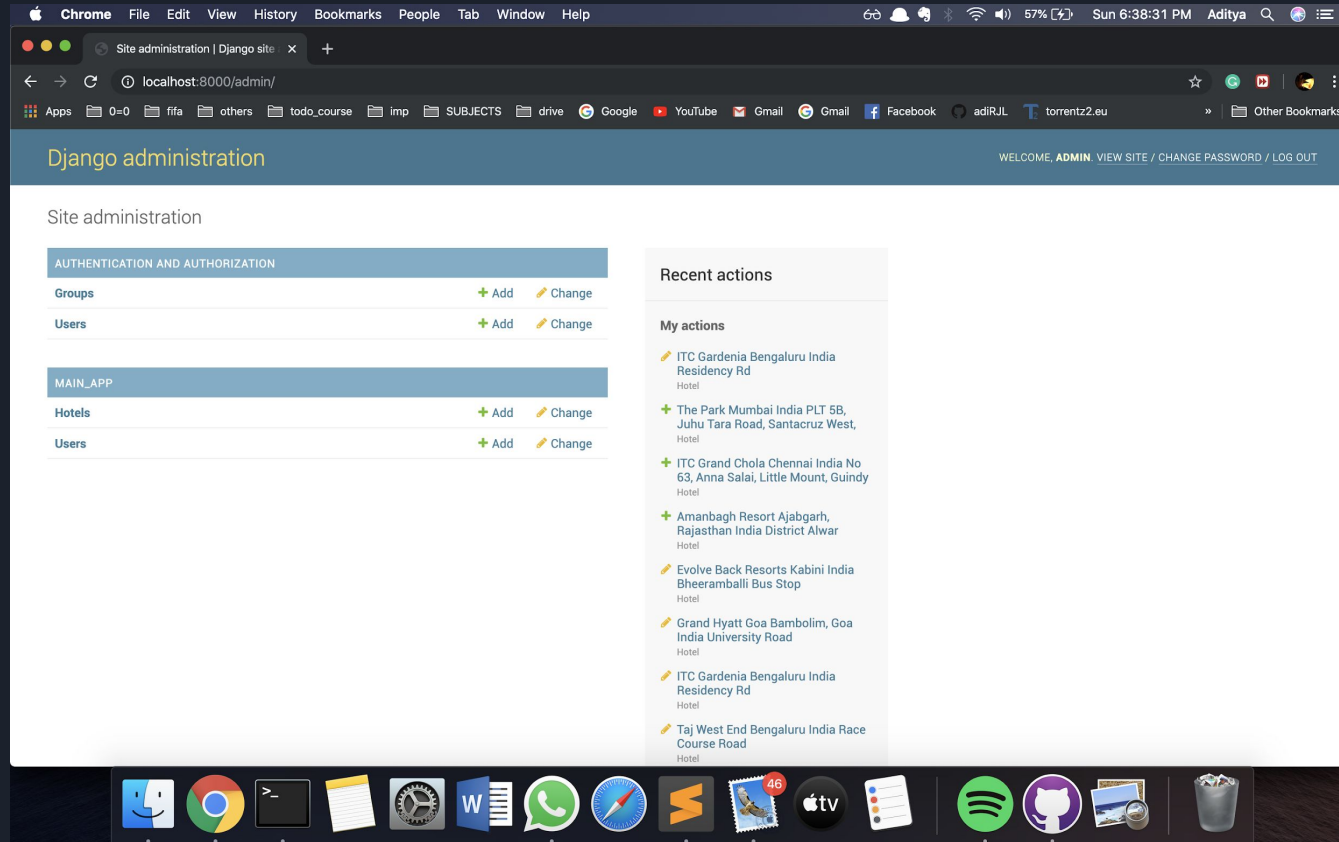
218     results = {'name': name, 'email':email, 'hotel_name':hotel_name, 'check_in':check_in, 'check_out':che
219             'guests':guests, 'room_type':room_type}
220
221     hotel = Hotel.objects.get(name = hotel_name)
222     hotel.max_rooms_available = hotel.max_rooms_available - 1
223     hotel.save()
224
225
226     return render(request, self.template_name, {'results':results})
227
228 class ReviewPage(TemplateView):
229     template_name = "main_app/review.html"
230
231     def post(self, request):
232         return render(request, self.template_name)
233
234 class ReviewAPI(TemplateView):
235     # submission throttling
236     template_name = "main_app/index.html"
237     def post(self, request):
238         review = request.POST.get("review", " ")
239         hotel_name = request.session["hotel_name"]
240         hotel = Hotel.objects.get(name = hotel_name)
241         print("\n\n\n\n", review)
242         hotel.review = hotel.review + "|| " + str(review)
243         hotel.save()
244         return render(request, self.template_name)
245
246
247
248
```

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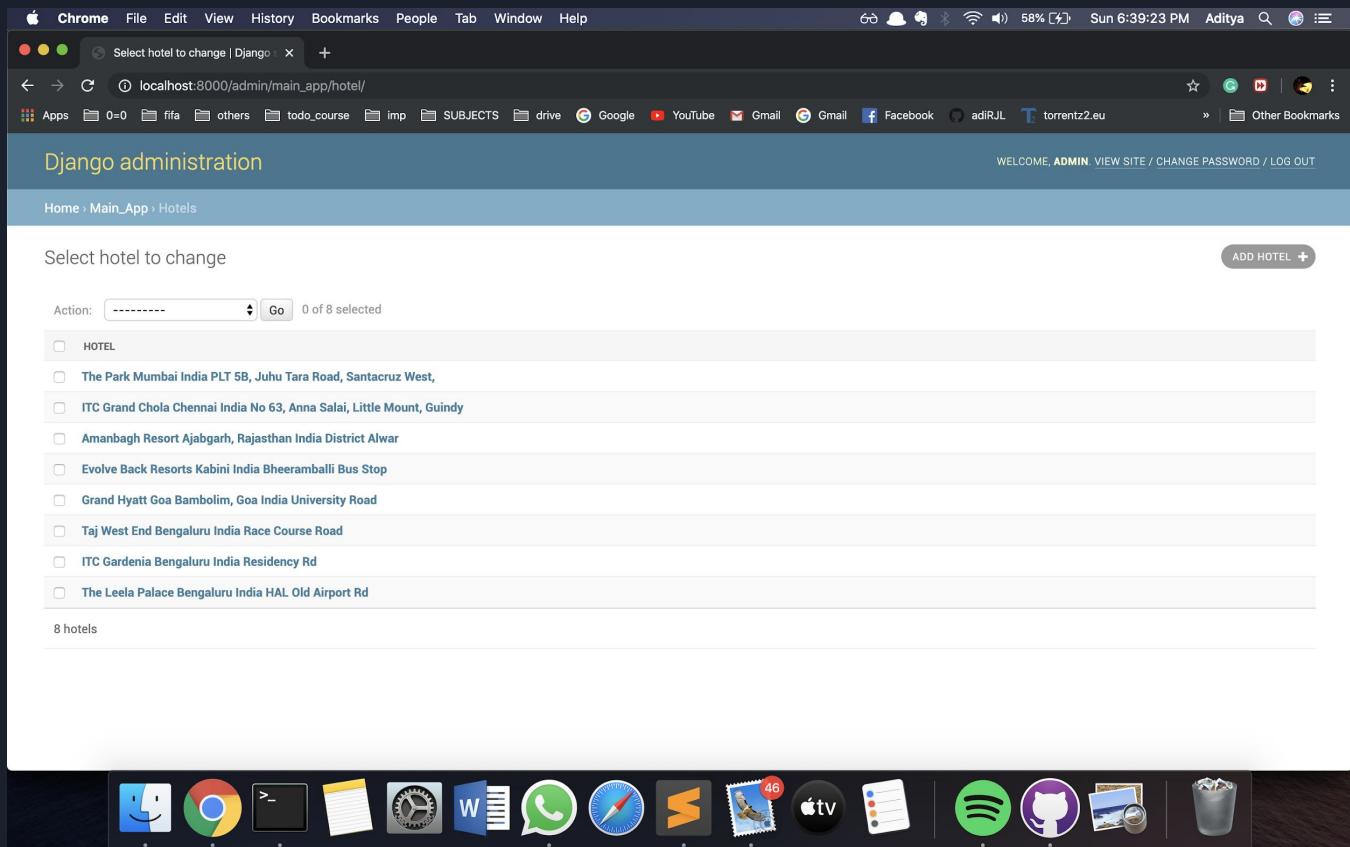


ReviewAPI is a REST API





Database Admin Page



Hotel database

Thank you

