

# Fly With Indigo

All in one portal for fulfilling customer needs



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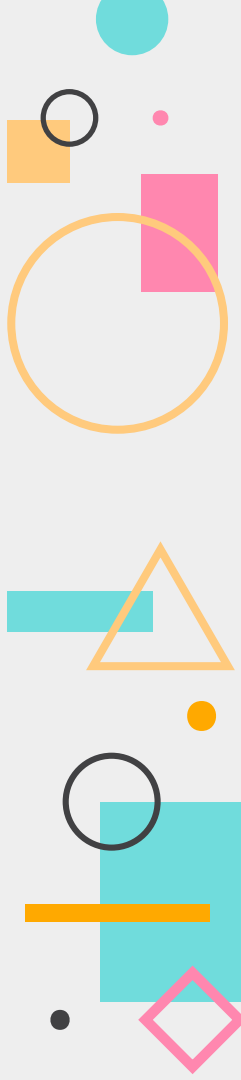
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# Summary

Fly-With-Indigo is a web portal handling both customer and service provider needs by providing them necessary access points and connecting them through real time notifications, broadcasts and mails.



# 01

# Walk through Fly-With-Indigo

A comprehensive guide for accessing the portal.



# The pillars of strength for Fly-With-Indigo



## Flask Backend

The app uses a flask API based backend which connects to MongoDB and at the same time, provides routes for broadcasting over Apache Kafka.



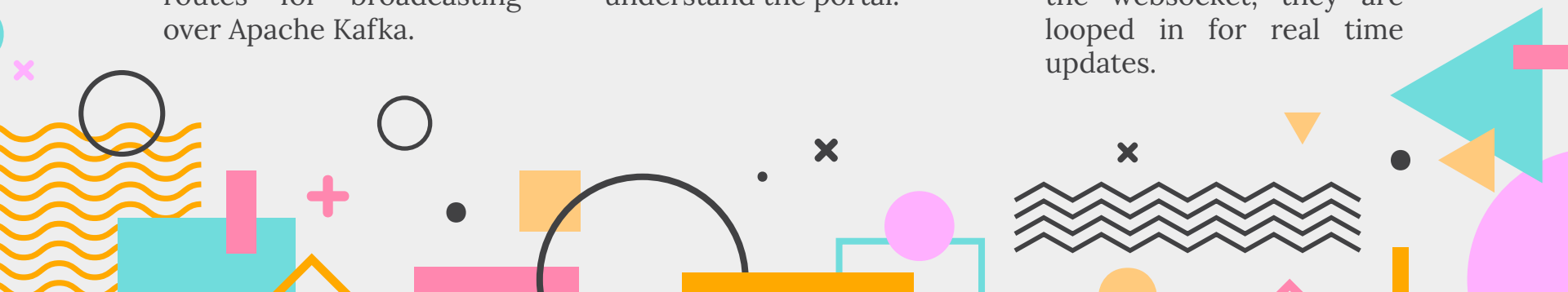
## React Frontend

The app uses React and Tailwind for providing a dynamic front-end for users to easily access and understand the portal.

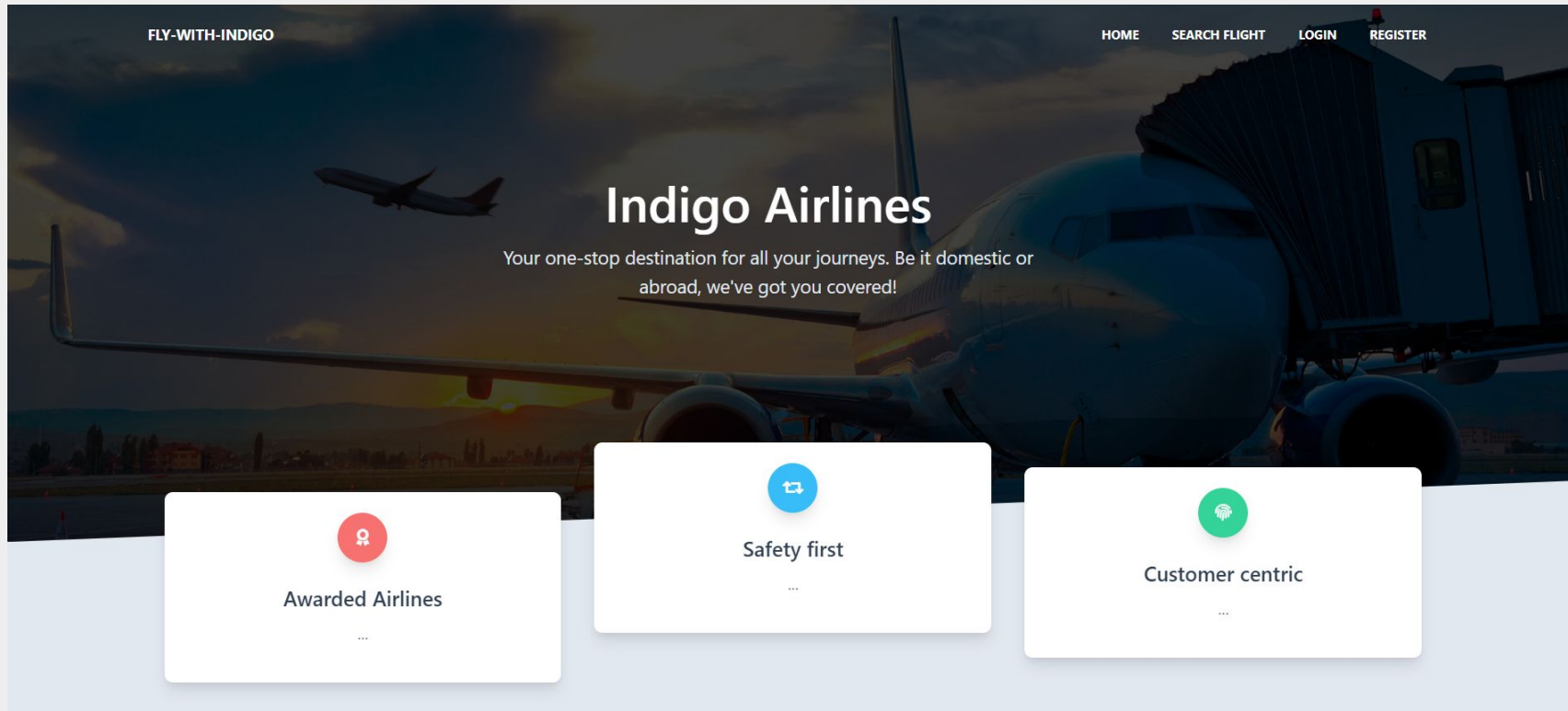


## Node.js Websockets

The socket.io library helps bridge the Apache Kafka to React based front end. Once the user connects to the websocket, they are looped in for real time updates.



# Landing Page



# List of features provided by the portal

## User Sign Up

Any customer can easily sign up by entering their email address and setting up a password

## User Log In

Any customer, staff person or admin can easily log in via the same form and still end up on respective dashboards.

## Dashboard

For each person, their dashboard has been customised to cater to their needs.

## Book a flight

Any customer can easily search and book a flight. The flight can be searched by arrival or departure too.

## Real Time Updates

The admin can easily send either a notification to particular set of people, or can broadcast to all the customers in the database

## Boarding

The staff can board or cancel the passenger as per their own request. An email notification for the same will be sent too.



# 02

## Admin, staff and customer roles

Understanding the roles division and their impact on the portal.





# The “Role” based division

## Admin

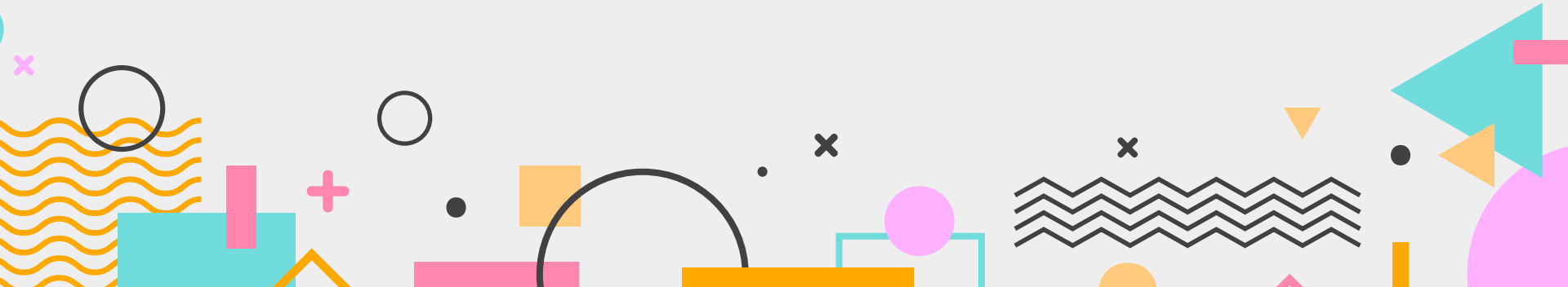
Burdened with responsibilities such as assigning other employees the role of admin or staff and broadcasting announcements.

## Staff

Burdened with responsibilities such as adding flight charts and boarding passengers on the boarding gates.

## Customers

Burdened with the ultimate responsibility of booking flights from the portal, keeping an eye out for notifications and using the app to their comfort.





03

# Real Time Implementation

Understanding the role of Apache Kafka  
and Websockets



# Apache Kafka & Websockets

Apache Kafka, which is massively scalable, as it allows the data to be distributed across multiple servers, is the best choice for sending out notifications and broadcasts.

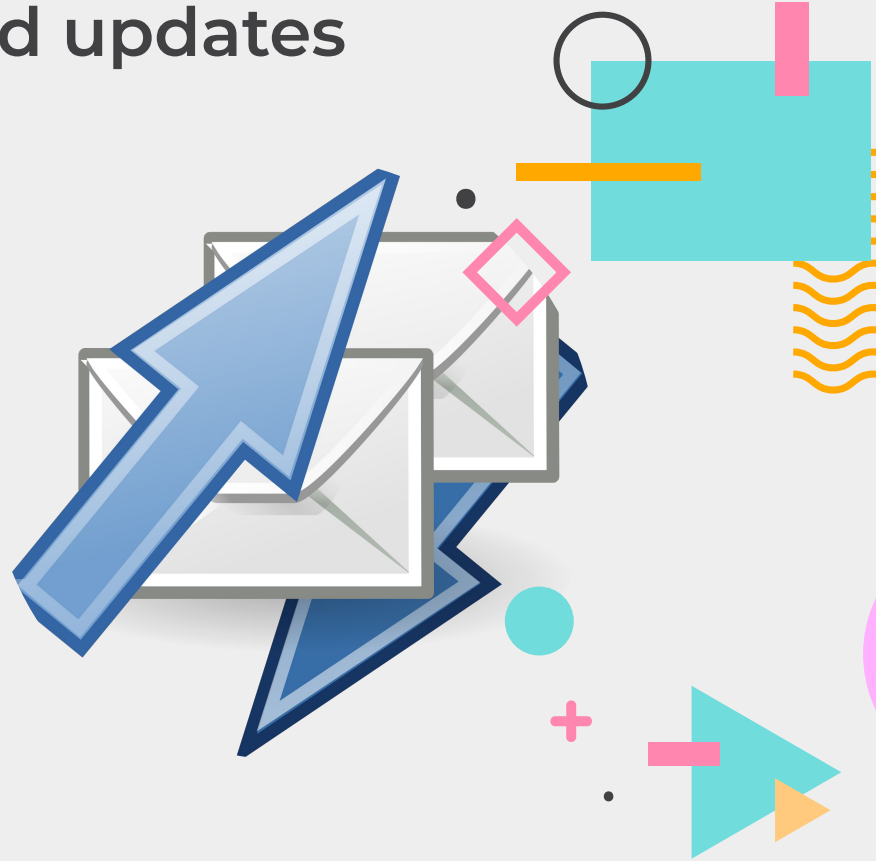
Thus using Flask API, the routes are configured to send out data over Kafka topics named 'notifications' and 'broadcasts'.

These events are then listened for by websockets, which are capable of reading the data from Kafka topic and further sending it over the websocket to React based frontend.



# Emailing notifications and updates

The Email.js is a powerful library, which allows us to customize our own templates and setting up our own email service. The portal uses email.js to send mails to all passengers whenever announcements are made related to their particular flights. Other than that, whenever the staff marks the passenger as “boarded” or “cancelled”, the passenger received a mail, conveying the updated status of their travel booking.





# 04

## Project Demo

A slideshow of screenshots from the portal



### Sign in with

USERNAME

PASSWORD

**SIGN IN**

### Sign up with

NAME

USERNAME

EMAIL

PASSWORD

CREATE ACCOUNT

LOGOUT

# Welcome - Administrator

 USERNAME - ADMIN

 Email Address - ayushb6732@gmail.com

---



### Update Roles

USERNAME

ROLE

Select Role



**UPDATE ROLE!**

### Announcements

BROADCAST ☐

FLIGHT NUMBER

F001

SUBJECT

Announcement - Boarding

TYPE YOUR MESSAGE HERE

Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!



**SEND ANNOUNCEMENT**



### Update Roles

USERNAME

Username

ROLE

Select Role

UPDATE ROLE!

### Announcements

BROADCAST ☐

FLIGHT NUMBER

F002

SUBJECT

Announcement - Flight Delay

TYPE YOUR MESSAGE HERE

The flight has been delayed due to bad weather conditions!

SEND ANNOUNCEMENT

### Update Roles

USERNAME

ROLE

Select Role



**UPDATE ROLE!**

### Announcements

BROADCAST ☒

FLIGHT NUMBER

SUBJECT

New flight schedules announced!

TYPE YOUR MESSAGE HERE

Please search for flight number F001 and F002 to check out the new flights which have been scheduled from DEL to BOM and BLR to make travelling for people working inter-state more convenient.



**SEND ANNOUNCEMENT**



## My account

[SETTINGS](#)

### USER INFORMATION

USERNAME

admin

EMAIL ADDRESS

ayushb6732@gmail.com

FIRST NAME

Administrator

LAST NAME

LOGOUT

## Welcome - Staff

 USERNAME - STAFF

 Email Address - staff@indigo.com

---





Commence Boarding

FLIGHT NUMBER

BOARD PASSENGERS

Passengers List

NAME	USERNAME	EMAIL ADDRESS	SEAT NUMBER	STATUS	ACTION PANEL
Anusha Yadav	anushayadav	anushayadav1401@gmail.com	S01	CONFIRMED	
Ayush Bansal	ayushboff	ayushbofficial@gmail.com	S02	CONFIRMED	



## Commence Boarding

FLIGHT NUMBER

BOARD PASSENGERS

## Passengers List

NAME	USERNAME	EMAIL ADDRESS	SEAT NUMBER	STATUS	ACTION PANEL
Ayush Bansal	ayushboff	ayushbofficial@gmail.com	S02		

Boarded Successfully

Cancel boarding

FLY-WITH-INDIGO

QUICK ACCESS

 DASHBOARD

 FLIGHT ENTRY

 BROADCAST

 SETTINGS

# Flight Information

FLIGHT NUMBER

ARRIVAL

DEPARTURE

DEPARTURE TIME

ARRIVAL TIME





## My account

[SETTINGS](#)

### USER INFORMATION

USERNAME

staff

EMAIL ADDRESS

staff@indigo.com

FIRST NAME

Staff

LAST NAME



## My account

[SETTINGS](#)

### USER INFORMATION

USERNAME

staff

EMAIL ADDRESS

staff@indigo.com

FIRST NAME

Staff

LAST NAME

LOGOUT

# Welcome - Ayush Bansal

 USERNAME - AYUSHBOFF

 Email Address - ayushbofficial@gmail.com

---



General Channel

TIMESTAMP	SUBJECT	MESSAGE
30/07/2024, 16:40:30	New flight schedules announced!	Please search for flight number F001 and F002 to check out the new flights which have been scheduled from DEL to BOM and BLR to make travelling for people working inter-state more convenient.



LOAD ALL BOOKINGS

LOAD ACTIVE BOOKINGS

LOAD BOARDED BOOKINGS

Booking Details

FLIGHT NUMBER	DEPARTURE	ARRIVAL	SEAT NUMBER	BOOKING STATUS
F001	DEL   2024/09/31 09:00	BOM   2024/09/21 11:00	S02	CONFIRMED

Notifications and Updates

TIMESTAMP	FLIGHT NUMBER	SUBJECT	MESSAGE
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LOAD ALL BOOKINGS

LOAD ACTIVE BOOKINGS

LOAD BOARDED BOOKINGS

Booking Details

FLIGHT NUMBER	DEPARTURE	ARRIVAL	SEAT NUMBER	BOOKING STATUS
F001	DEL   2024/09/31 09:00	BOM   2024/09/21 11:00	S02	CONFIRMED

Notifications and Updates

TIMESTAMP	FLIGHT NUMBER	SUBJECT	MESSAGE
30/07/2024, 16:36:57	F001	Announcement - Boarding	Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!



LOAD ALL BOOKINGS

LOAD ACTIVE BOOKINGS

LOAD BOARDED BOOKINGS

Booking Details

FLIGHT NUMBER	DEPARTURE	ARRIVAL	SEAT NUMBER	BOOKING STATUS
F001	DEL   2024/09/31 09:00	BOM   2024/09/21 11:00	S02	CANCELLED

Notifications and Updates

TIMESTAMP	FLIGHT NUMBER	SUBJECT	MESSAGE
30/07/2024, 16:36:57	F001	Announcement - Boarding	Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!

## Announcement - Boarding

Inbox x



**ayushbofficial@gmail.com**

to me ▼

16:36 (1 minute ago)



To - [ayushbofficial@gmail.com](mailto:ayushbofficial@gmail.com)

Subject - Announcement - Boarding

*Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!*

Best wishes,

Team Fly-With-Indigo

Email sent via [EmailJS.com](https://EmailJS.com)

↩ Reply

➡ Forward





## Successfully cancelled flight - F001!

Inbox x



**ayushbofficial@gmail.com**

to me ▼

16:48 (0 minutes ago)



To - [ayushbofficial@gmail.com](mailto:ayushbofficial@gmail.com)

Subject - Successfully cancelled flight - F001!

*Congratulations. You have successfully cancelled your flight! Please leave a feedback for us.*

Best wishes,  
Team Fly-With-Indigo

Email sent via [EmailJS.com](https://EmailJS.com)

↩ Reply

➡ Forward





## My account

SETTINGS

### USER INFORMATION

USERNAME

ayushboff

EMAIL ADDRESS

ayushbofficial@gmail.com

FIRST NAME

Ayush

LAST NAME

Bansal

LOGOUT

## Welcome - Anusha Yadav

 USERNAME - ANUSHAYADAV

 Email Address - anushayadav1401@gmail.com

---

FLY-WITH-INDIGO

QUICK ACCESS

 DASHBOARD

 SEARCH FLIGHTS

 BROADCAST

 SETTINGS

Flight Number

DEPARTURE

DEL

ARRIVAL

Arrival city

SEARCH

### Flight Search Results

FLIGHT NUMBER	DEPARTURE (FROM)	ARRIVAL (TO)	DEPARTURE TIMINGS	ARRIVAL TIMINGS	ACTION PANEL
F001	DEL	BOM	2024/09/31 09:00	2024/09/21 11:00	BOOK TICKET
F002	DEL	BLR	2024/07/30 13:00	2024/07/30 17:00	BOOK TICKET
F003	DEL	PUN	2024/07/31 1200	2024/07/31 1420	BOOK TICKET



LOAD ALL BOOKINGS

LOAD ACTIVE BOOKINGS

LOAD BOARDED BOOKINGS

Booking Details

FLIGHT NUMBER	DEPARTURE	ARRIVAL	SEAT NUMBER	BOOKING STATUS
F001	DEL   2024/09/31 09:00	BOM   2024/09/21 11:00	S01	CONFIRMED
F003	DEL   2024/07/31 1200	PUN   2024/07/31 1420	S01	CONFIRMED

Notifications and Updates

TIMESTAMP	FLIGHT NUMBER	SUBJECT	MESSAGE
30/07/2024, 16:36:57	F001	Announcement - Boarding	Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!



LOAD ALL BOOKINGS

LOAD ACTIVE BOOKINGS

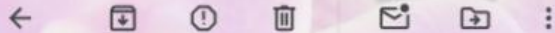
LOAD BOARDED BOOKINGS

Booking Details

FLIGHT NUMBER	DEPARTURE	ARRIVAL	SEAT NUMBER	BOOKING STATUS
F001	DEL   2024/09/31 09:00	BOM   2024/09/21 11:00	S01	BOARDED

Notifications and Updates

TIMESTAMP	FLIGHT NUMBER	SUBJECT	MESSAGE
30/07/2024, 16:36:57	F001	Announcement - Boarding	Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!



## Announcement - Boarding Inbox x



**ayushbofficial@gmail.com**

to me ▼

4:36 PM (12 minutes ago)

To - [anushayadav1401@gmail.com](mailto:anushayadav1401@gmail.com)

Subject - Announcement - Boarding

*Passengers are requested to move to the gate numbers presented on their boarding pass to board the flight!*

Best wishes,  
Team Fly-With-Indigo

Email sent via [EmailJS.com](https://EmailJS.com)

Done.

Ok, will do that.

Noted with thanks.



## Successfully boarded flight - F001! Inbox x



**ayushbofficial@gmail.com**

to me ▼

4:46 PM (2 minutes ago)

To - [anushayadav1401@gmail.com](mailto:anushayadav1401@gmail.com)

Subject - Successfully boarded flight - F001!

*Congratulations. You have successfully boarded your flight! Enjoy the world class service provided by Air Indigo and do leave a feedback for us.*

Best wishes,  
Team Fly-With-Indigo

Email sent via [EmailJS.com](https://EmailJS.com)





FLY-WITH-INDIGO

QUICK ACCESS

 DASHBOARD

 SEARCH FLIGHTS

 BROADCAST

 SETTINGS

DASHBOARD



## My account

SETTINGS

### USER INFORMATION

USERNAME

anushayadav

EMAIL ADDRESS

anushayadav1401@gmail.com

FIRST NAME

Anusha

LAST NAME

Yadav

Fly-With-Indigo About Us Blog



# Thank You!

Contact me - [ayushb6732@gmail.com](mailto:ayushb6732@gmail.com)

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