

# IIITD Academic Interaction Forum

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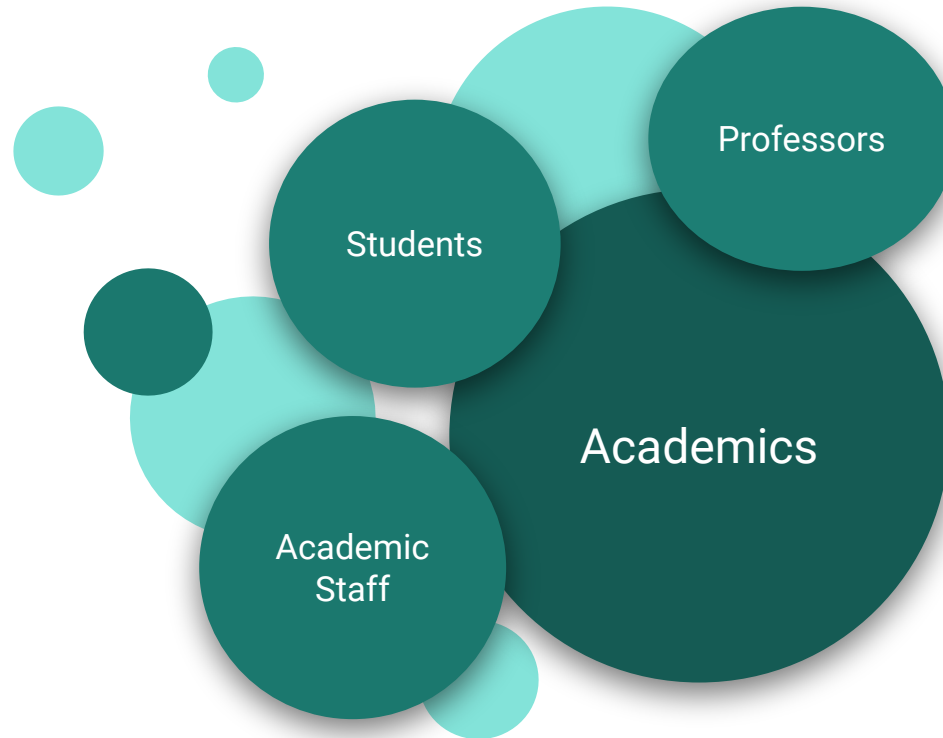


INDRAPRASTHA INSTITUTE *of*  
INFORMATION TECHNOLOGY  
**DELHI**



# Stakeholders

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# Problem Statement



## MOTIVATION

Students engage with the faculties at various levels during their degrees. Besides learning about the numerous course offerings at IIITD, they pursue projects advised by the professors and assist them as TAs. Ease of interaction between faculties and students is important to any academic institution like IIITD. Currently, the major interaction is through mails.

### Broadcasting

Project openings, information about new and existing courses are broadcasted to entire google groups, such as [students@iiitd.ac.in](mailto:students@iiitd.ac.in), while only a few students are interested in the same.

### Repetitive Answering

Students end up mailing the admins individually, accumulating repetitive queries. This leads to repetitive answering by the faculty and admins to each student.

# Proposed Solution

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An easy to use Web application with an intuitive UI that allows students, faculties, and staff (admins) to sign up and communicate.

## **Web Application**



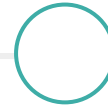
Students only receive announcements/information regarding topics they are interested in.

## **Avoid Flooding**



Flexibility of subscribing to a topic. Get updates about courses, BTP/IP openings, projects etc conveniently and efficiently.

## **Flexible Interactions**



Academic department need not answer same query multiple times, since the queries and their answers are visible to all.

## **One-Time Answering**

# Proposed Solution



1

Resources Forum

2

Course Management

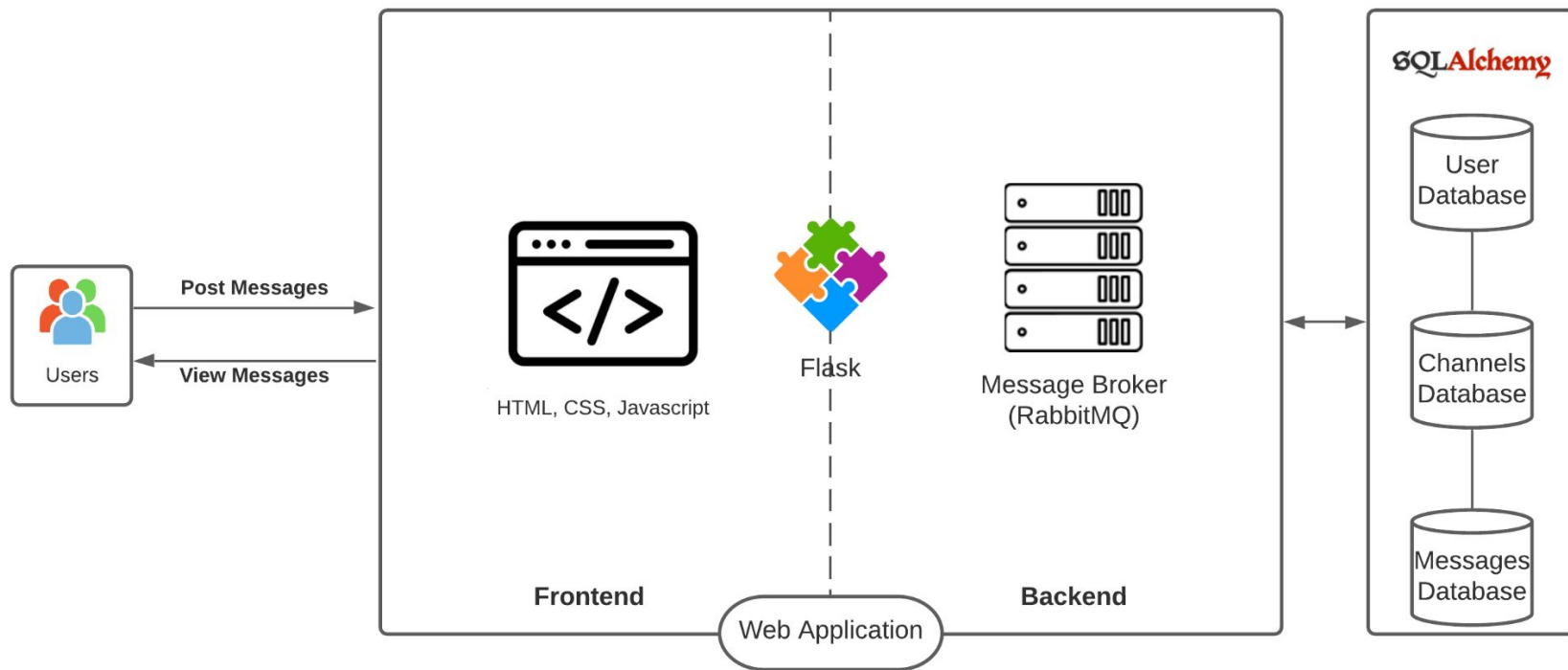
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Open Positions/Project Opportunities

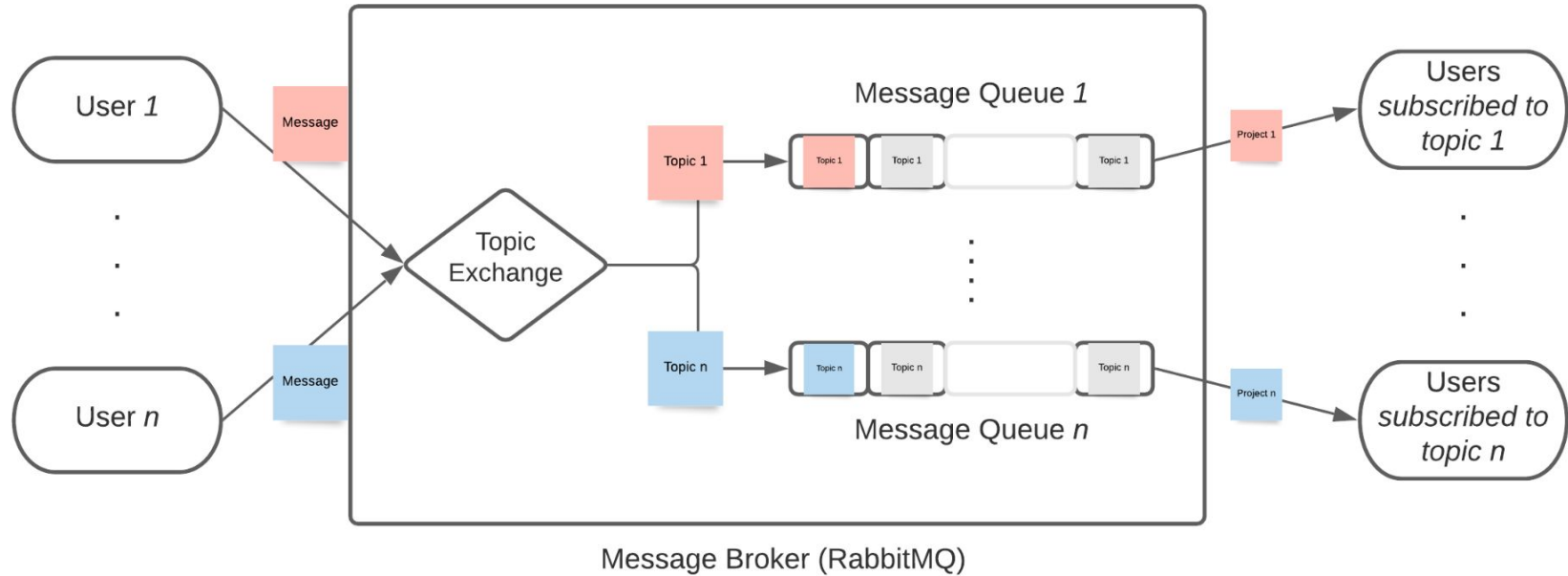
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Academic Doubt Resolution

# Application Architecture



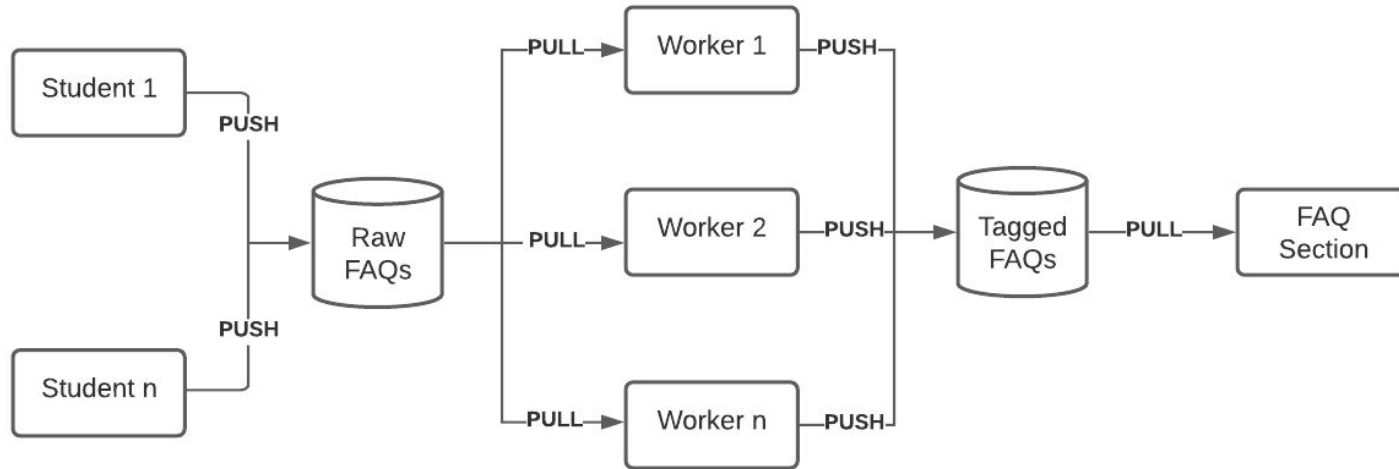
# RabbitMQ (Pub-Sub)



# Push-Pull Mechanism



In the Academic Doubt Resolution section, students can post doubts/questions requesting clarification from the faculty or other students. An automated script works to add relevant tags to the question. All questions are finally deposited to one FAQ section and await responses. This is an application of a **PIPELINE**, where the students act as **VENTS** and send in the questions, which are distributed among automated **WORKERS** to apply relevant tags to the question. The tagged messages are then pulled by the **SINK**, which is the FAQ section on the platform.

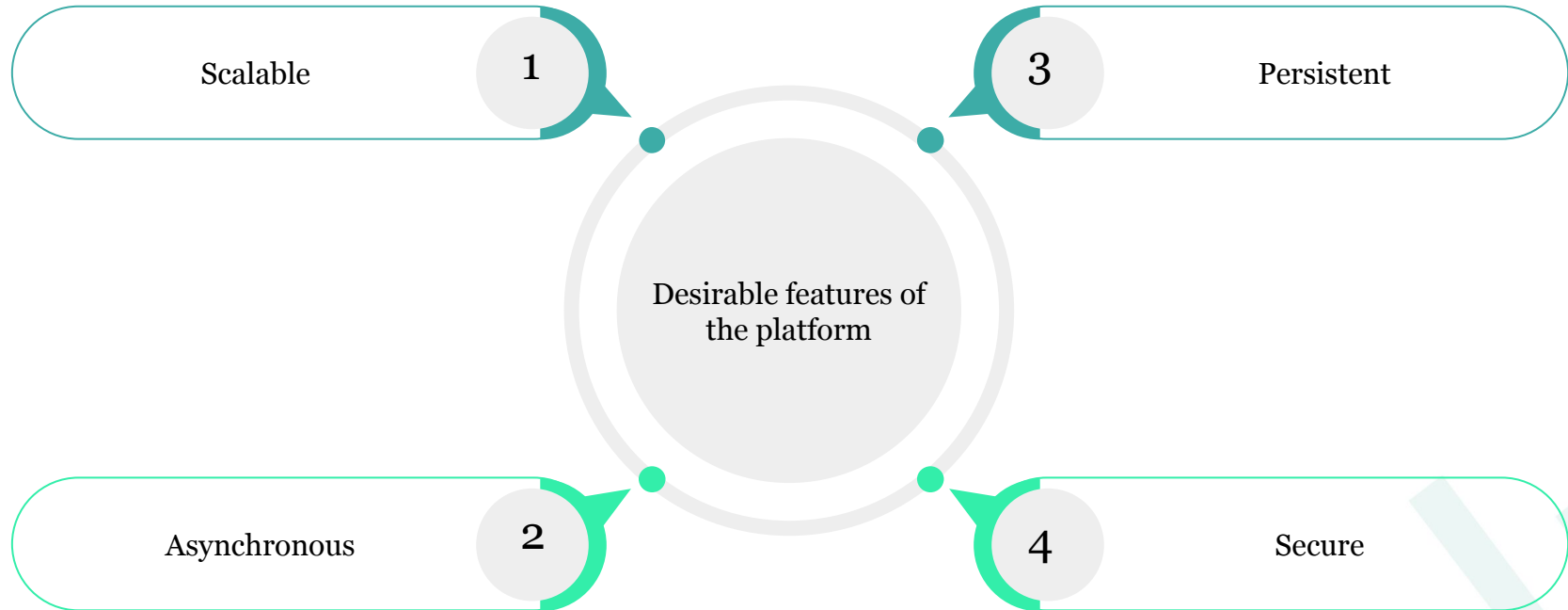




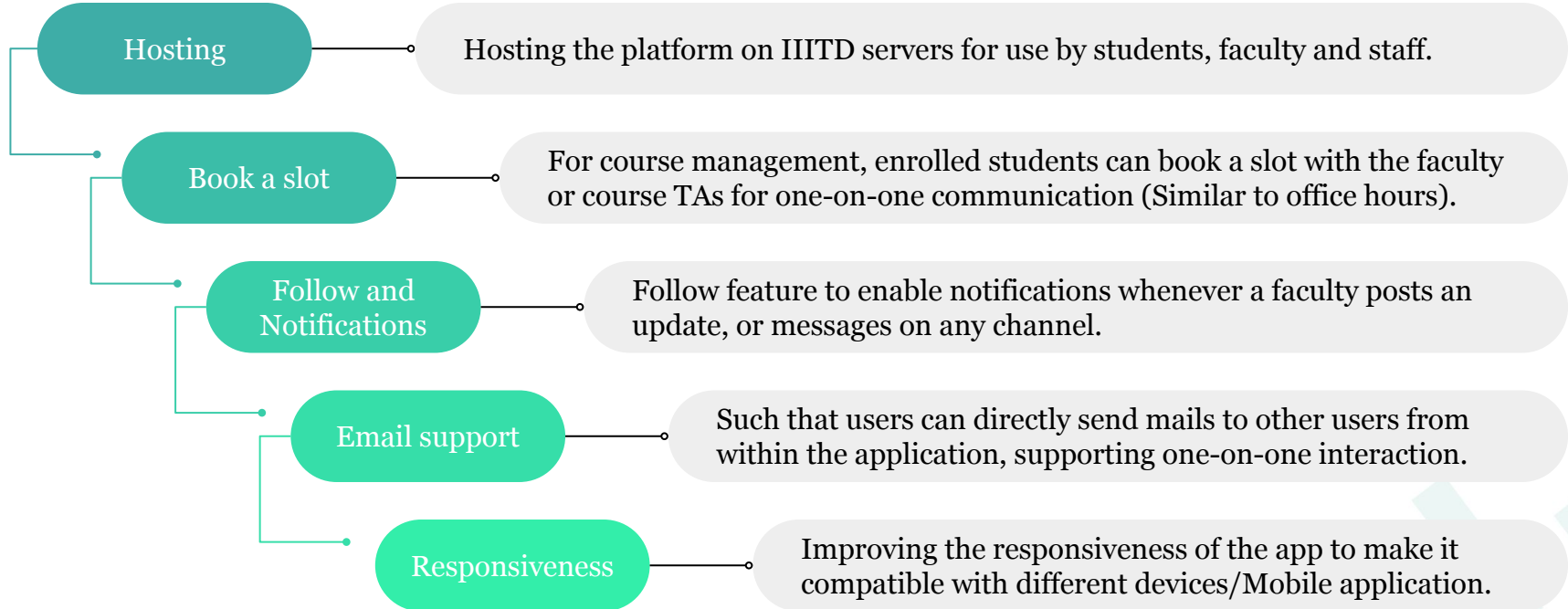
Live Demo



# Why this platform?



# Future Scope



Thank you!

