



Basic Details of the Team and Problem Statement :

Ministry/Organization Name/Student Innovation:

University Grants Commission (UGC)

PS Code: VS935

Problem Statement Title:

Development of portal for sharing of resources amongst Higher Educational Institutions on mutual agreement basis.

Team Name: Buggy Decoders

Team Leader Name: Arnav Shrivastava

AISHE Code: U-0270

Institute Name:

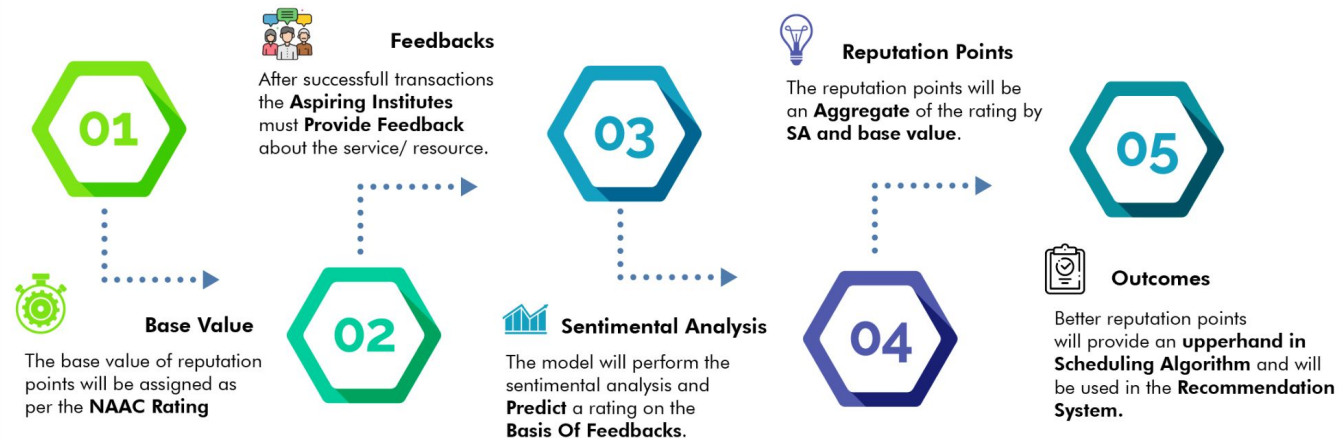
The Institute of Engineering & Technology,
DAVV

Theme Name: Miscellaneous

Idea/Approach Details ✓

- Aim to facilitate resource sharing among HEIs. Lending HEIs will be able to profit from resource renting, and aspirant HEIs won't have to spend more money on the temporary requirement, which will reduce the undue financial burden on HEIs.
- Sharing Physical and Virtual Resources, along with **Faculty Assistance Program**, will help in **raising the Standard of Education & Research** in low-tier universities.
- It allows HEIs to upload their Resources and Aspirant Institutes to choose resources **based on their requirement**. The recommendation system suggests the most relevant resources based on several factors like budget, location, availability, etc.
- We've also introduced a **Reputation System**, to evaluate institutes that are based on NAAC ratings and results of **sentimental analysis on feedback**.
- Once the lending university gets all the resource requests, Our **Scheduling Algorithm** will optimize the requests based on availability to maximize resource utilization.
- HEIs can create **Digital Contracts** to ensure fair use of resources & violation of contracts will reduce HEIs' chances of getting their future requests approved.

Reputation Points (Sentimental Analysis)



Scheduling Algorithm



Scheduling Visualization



Recommendation System based on:

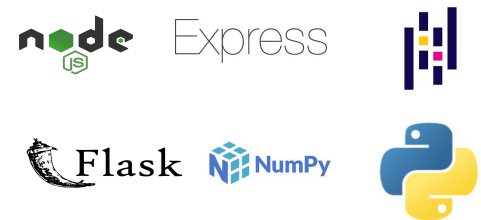


Technology Stack

Front End Technologies

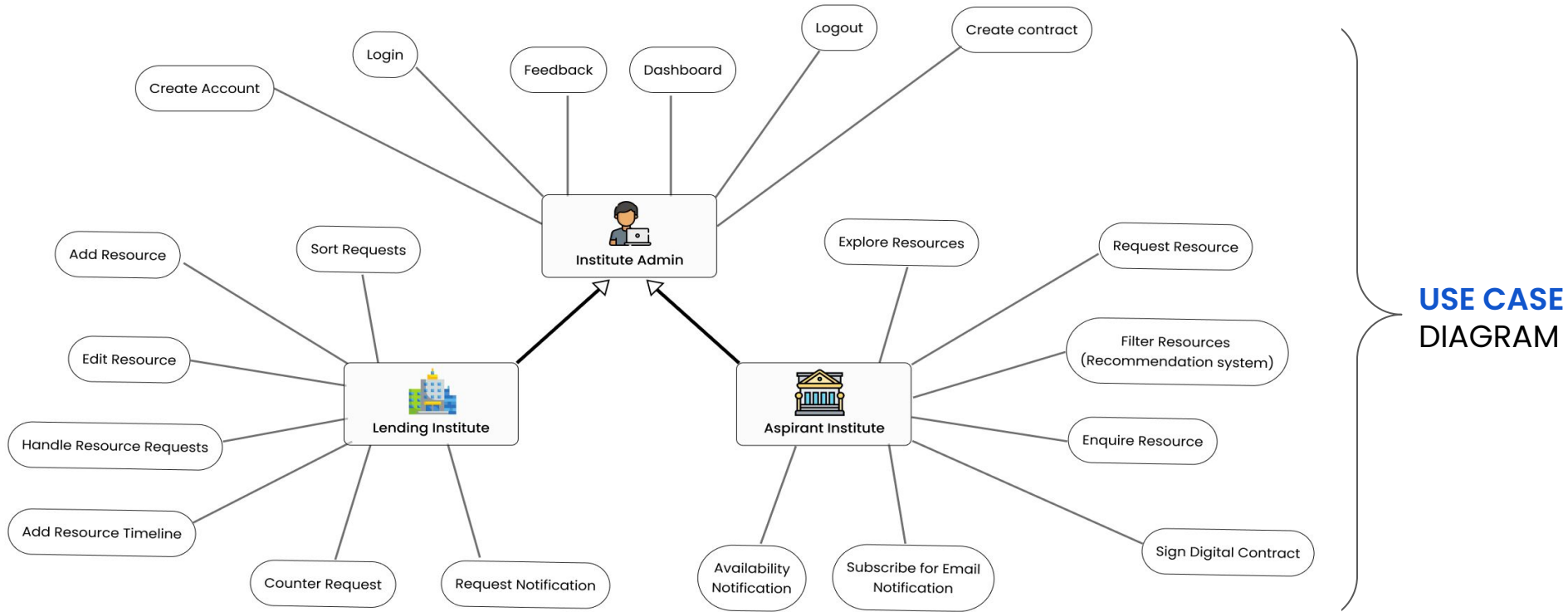


Back End Technologies



Databases



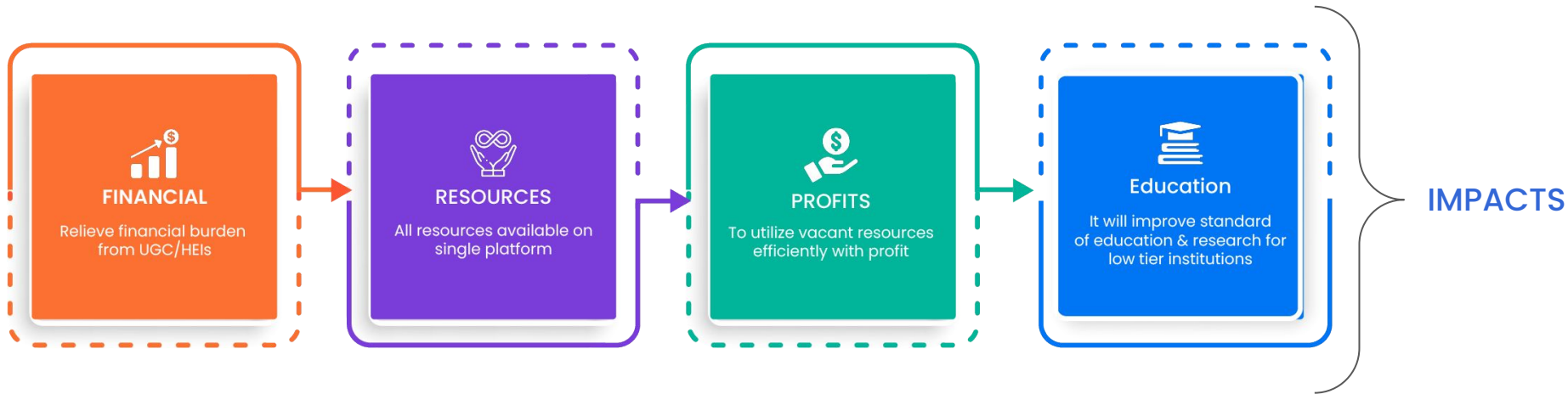


Dependencies

- ☐ Fast Internet Connection
- ☐ Willingness To Share Resources
- ☐ Verified Institute (AISHE Code)

Show Stoppers

- ☐ Faculty Assistance Program
- ☐ Recommendation System
- ☐ Email Notification
- ☐ Digital Contracts
- ☐ Scheduling Algorithm
- ☐ Sentimental Analysis on Feedback



Team Member Details



Team Leader : Arnav Shrivastava
Stream : ETC Year: II

Team Member : Kunal Sangtiani
Stream : IT Year: II

Team Member : Artika Shrivastava
Stream : IT Year: II

Team Member : Pratham Rasal
Stream : CS Year: II

Team Member : Piyush Agrawal
Stream : CS Year: II

Team Member : Shivang Mishra
Stream : IT Year: II

Team Mentor : Mr. Neeraj Sharma Sir
Category : Industrialist
Expertise : ML/AI

Team Mentor : Dr. Vaibhav Jain Sir
Category : Academics
Expertise : DSA/DBMS

Important Links

Video Link : https://youtu.be/R6_5WYyx53I

Assets: <https://drive.google.com/drive/folders/14UgmOU-v3UjGmxQJ9RhWQrc336c7qJHP?usp=sharing>