

TECH-LOCK GATEWAY

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PROBLEM STATEMENT

COLLEGE CURRENTLY OPERATES ON MANUAL PROCESSES FROM ENTRY OF STUDENTS TO LEAVE APPLICATIONS IT IS ALL MANUAL AND USES LOT OF TIME AND RESOURCES. VISITORS LIKE PARENTS/ GUARDIANS WHEN THEY VISIT CAMPUS NEED TO MANUALLY WRITE THEIR DETAILS ON A REGISTER EXPLAIN THE REASON AND ARE THEN DIRECTED TOWARDS THE DESIRED VENUE.



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SOLUTION

- **Registration of User**
- **Login**
- **To_Reach Interface**
- **Entry and Exit using QR code**
- **Electronic Attendance Record**
- **Identification of Valid and Invalid Records**
- **Faculty and Students Interaction via Chat/ Voice Calls**
- **Assignment and Solution Uploads**



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TECH STACK USED

MongoDB
React
Next.js
Tailwind CSS

USERS AND ACCESS

Users:

Students
Visitors
Faculties
Coordinator Incharge (s)
Club Heads/ Incharge (s)
Admin

Access Control:

Faculty
Coordinator Incharge
Society Heads/ Club Incharge
Admin



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FUTURISTIC ASPECT

- Once the Application has all the features as decided at the point, we can add a futuristic aspect to the application where admission related queries can be resolved virtually.
- Students and parents can connect virtually with Admission Cell and discuss their queries on the Application via Real time Text messaging and Voice calls.
- Parents can have the access to the Student's academic report, on how is the student performing in the college and can check if the student is actually attending classes.
- Integration of academic performance, both ways on internal and External assessments (like IPU Rank_list).
- Library baggage of individual students can integrated a precised digital library app.
- Leave application- Virtual approval on the basis different criteria,
- Incase of sick leaves, vacations, wedding leaves etc.



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BUSINESS MODEL

- EASY TRACK ON PAST RECORDS ON VARIOUS ASPECTS.
- EASY TO FUNCTION AND USE.
- ENHANCED USE CASES AS COMPARED TO EXISTING WORKING.
- REDUCED RESOURCES FOR MANAGEMENT OF DATA.
- BETTER COMMUNICATION AND INTERACTION AMONGST STUDENTS AND FACULTIES
- ONE STOP ANSWER TO ALL QUERIES.
- ENHANCED PRIVACY.



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