

# Basic Details of the Team and Problem Statement

PS Code: SIH1467

Problem Statement Title: Student Innovation

Team Name: Tech Savy

Team Leader name: SIVASURYAKANTH MAHESWARAN M

Theme Name: Smart Education

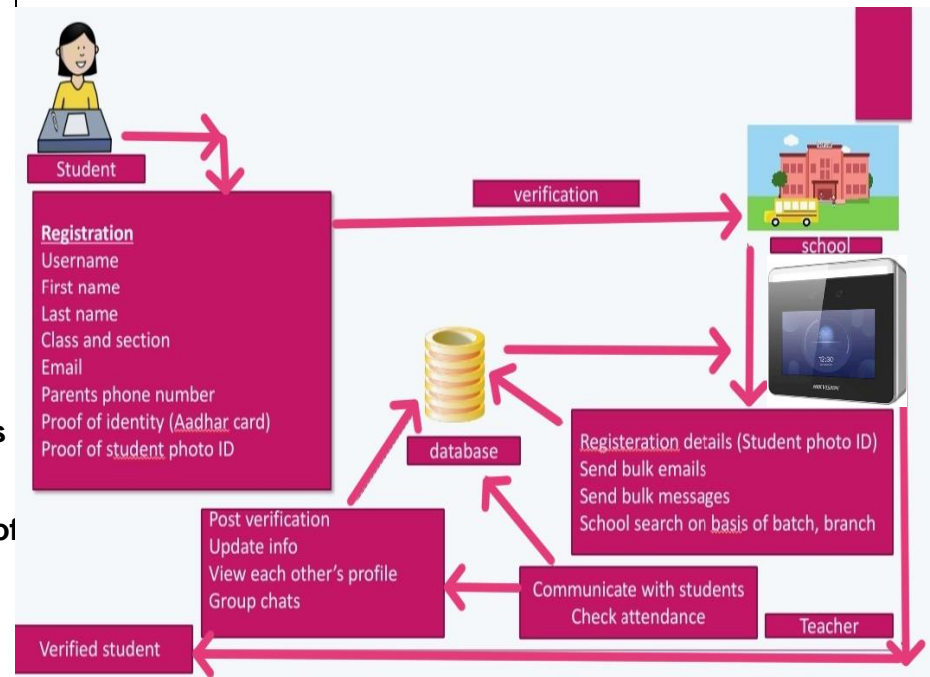
Institute Name: St. Joseph's Institute of Technology

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Application to facilitate and ease all the classroom activities between students , faculty, school management and parents

Describe your idea/Solution/Prototype here:

- A web application to be build with two portals for students and faculty members on same platform
- The students will have to first register on app via email or any other social authentication
- The student needs to submit a PDF/photo of their one of the mentioned items (school ID, library card, mark sheet) to prove school identity, The school can verify these details from the backend portal.
- The student photo ID in verification is registered in the school's real-time face detection machine at class level/day level
- Student's faces are verified with timestamps at commencement.
- Each and every student's attendance response sheet is represented in the form of an Excel file, which facilitates easy sharing
- Each student's attendance report for every subject is sent to parents via messages, enabling smart monitoring of students.
- Personalized AI bot inbuilt with web portal which facilities following features:
- Enhanced Learning:
  - AI robots customize learning, improving understanding and academic performance.
- 24/7 Support:
  - Robots offer round-the-clock academic help, fostering continuous learning.
- Personalized Carrer guidance and personalized learning:
  - AI robots analyze student data to provide tailored career advice, guiding them in choosing careers and education while staying updated on job trends. Ethical design ensures accuracy and fairness.
- There will be a feed section in the app where students can share any post, photo of related doubt (or) queries regarding the subject, which is visible only to their required teachers. Any update regarding the student doubt( or) queries will be automatically shared on feed
- Principal can also register on app application. Principal teachers can post the activities on feed section for students
- Every Test, exam results are uploaded in portal and their results will notify to parents via message at commence



## Technology stack here

BACKEND: **Django 2.2.6**

FRONTEND: **HTML5,CSS3,JAVASCRIPT**

DATABASE: **POSTGRE SQL**

SMS SERVICE: **TWILIO API**

EMAIL SERVICE: **GMAIL**

FACE DETECTION: **RAPID API**

ARTIFICIAL INTELLIGENCE: **CHAT GPT-4**

This application has use cases covering various actors like students, faculties and school management.

### Institution Use Case

- Facilitate login and class-room creation for students and faculties
- Publish school level feeds for everyone to view
- Send general reports to parents whenever needed

### Student Use case

- Daily basis login and logout to class and school using facial recognition
- Student can use class-room specific feed to ask their doubts clarified
- Students to collaborate using the feed section in classroom.

### Faculty Use case

- Tracking student's attendance and send report to parents and students whenever needed
- Solve student queries in feed
- Publish internal test result and send

### Business Benefits

- Reduced cost, readily available and quickly accessible information, document security and many more
- It offers numerous significant benefits, including time-saving results, precision, efficiency, flexibility, seamless workflow coordination, security, and absence management
- Attendance information can be accessed 24×7
- More collaboration between students, faculties, parents and management.

### Describe your Dependencies / Show stopper here

- WIFI linked real-time face detection machine.
- Web Application
- RDBMS to store and assess students' data
- Email or Social Authentication
- Feed Section
- Excel Application
- Message application
- Backend
- CHAT GPT-4

# Team Member Details

**Team Leader Name:**SIVASURYAKANTHMAHESWARAN M

Branch (BE)	Stream ( CSE )	Year (I)
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**Team Member 1 Name:** PUVVADI SANTOSH

Branch (BE)	Stream ( CSE )	Year (I)
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**Team Member 2 Name:** SHANA S

Branch (BE)	Stream ( CSE )	Year (I)
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**Team Member 3 Name:** SUREN K

Branch (BE)	Stream ( CSE )	Year (I)
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**Team Member 4 Name:** SRIPOOJA K A

Branch (BE)	Stream ( CSE )	Year (I):
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**Team Member 5 Name:** SREE HARINAKSHI I

Branch (BE)	Stream ( CSE )	Year (I)
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**Mentor 1 Name:** Dr Sai Ramesh

Category (Academics)	Expertise (Blockchain):	Domain Experience : (17 years)
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