

# Basic Details of the Team and Problem Statement

**Problem Statement :** To Create a Website for Educational Assistance and Development for Engineering Students

**Domain :** Software

**Theme Name:** Smart City Education

# PROPOSED IDEA

## PROPOSED SOLUTION

- Pursuing Engineering involves more than just academics including projects, paper publications, online courses etc.,
- Finding the required materials and mentors can be difficult for students who are interested in learning and building things.
- To address this issue, we have planned to create a website that helps Engineering Students enhance their knowledge and skills.
- The website's distinctiveness lies in its dedication to constructing a robust framework with a primary focus on Engineering Students.

## TECHNOLOGY STACK USED

- Windows 11 SDK
- Python programming language
- Django
- HTML
- CSS
- Django Rest Framework API

# USES AND IMPACT

## USE CASES

- Speech Assistant for conversational Q&A, pronunciation assistance, and audio output.
- Photo search for visualizing complex concepts with technical illustrations and diagrams.
- Library database for research and finding relevant materials.
- Doubt clarification with video and speech feedback for personalized guidance.
- Forums for building a sense of community and getting answers from peers and experts.
- Personal notes and personalized department notes/textbooks for reinforcement and time-saving learning.

## REGION OF IMPACT (The Target Audiences)

Our target audience/region of impact is engineering students as this website aims to:

- Provides useful tools and resources that cater to the specific learning needs of engineering students.
- Help students enhance their learning experience and achieve their academic goals.
- Support students' curiosity, passion for learning, and problem-solving skills.
- Offer easy access to relevant and high-quality resources.
- Help aspiring engineers become successful and accomplished in their field.
- Foster a community of like-minded individuals focused on learning and collaboration.



File



Forum



Notes



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*Learn  
and shine*



# USER INTERFACE OF WEBSITE

## USER EXPERIENCE

Each aspect mentioned here add value for unanimous use of the website for Engineering Students to make the end user happy.

- **USEFUL:** Doubt Clarification by Photo Search and Speech assistant voice note. E-Library. Forum for Open Doubts, personalised department notes and textbooks.
- **USAGE:** Library Database gives clear insight of concept by the respective textbook, video suggestion and also can purchase books.
- **DESIRABLE:** Easier to manage the studies within a website instead rather causing chaos.
- **ACCESSIBILITY:** The website accounts for visual impairment or other disabilities by facilitating Speech Recognition throughout the website.
- **CREDIBLE:** The site has secure access consisting of user id and unique password.
- **FINDABLE:** Personalised notepad provided for marking important dates as well as doubts.
- **VALUABLE:** The self-service features on the website improve Student Satisfaction making it a worthwhile experience for the students to rely upon for complete learning.

## DEPENDENCIES REQUIRED

### DEPENDENCIES:

- Laptop with medium specification
- Good WiFi connection
- Server with Database

### SHOW STOPPER:

- Change of version in python
- Change of version in django

# RUN DOWN

- The website is designed for engineering students to enhance their learning experience.
- The website provides E-library and textbooks features with materials from trusted sources.
- The website uses speech recognition for easy access to various features.
- An open forum is provided to connect with like-minded people, find mentors, and clear doubts.
- The overall aim is to provide assistance anytime, anywhere and to build a robust framework for learning.