

YOUiversity

- Objective:

YOUiversity is a user-centric web-based interface belonging to a particular college/university which offers a completely safe and secure unified access point to both the students and faculties. This portal will help to interact dynamically using technologies such as machine learning and genetic algorithm. This application has modules like **time-table generation(through Machine Learning)**, **ordering food from the canteen**, **attendance management** added with other perks like the events section to present visitors with a sneak peek of the events of the institution. The application will provide well-rounded features to serve the university students and will come in very handy throughout their college years. Not only the students but with the help of this application faculties can also ease out their daily daunting task of attendance management and by using the Machine-Learning based roster generation module, the hassle of Academic routine generation will be minimized to a large extent.

- Methods:

Students and faculty members using this application have to go through an authentication process to access the complete functionalities of the application. Broadly, the **YOUiversity** app will have four major modules:

1. Attendance-tracker:

This module will help faculties to work with the attendance of their students without any difficulties whatsoever. This module will be highly secured to also prevent any kind of malpractice.

2. Lost and found:

The Lost and found module contains two sub-modules -

- 2.1 Lost Section:**

This section of the portal effectively deals with the return of the lost items to its owner. It caters to the urgent need to have a standardized, centralized, and efficient way of dealing with the lost possession.

- 2.2 Found Section :**

This section is for the persons who have found any items and want to give them back to their actual owner. In this case, the person must upload the picture and the details of the item they have found.

3. Roster-generator:

This automatic generated timetable application reduces the complication of manually setting and managing timetables which is too time-consuming and laborious. It works in a paperless environment but keeps accurate equality of class loads with the recommended class loads of an individual while making a schedule.

4. Events:

All the events of the respected university will be listed to help the students get the correct information about college functions, debates, contests so on and so forth.

5. Canteen :

The list of all the food items available can be accessed, with pictures and details about the food item and the desired ones that can be ordered using both cash and online payment. Most importantly, the design of this system is simple so that the user won't get any difficulties while working on it. Saves time as it takes less duration than ordering food by manually going anywhere.

● Outcome:

The complexity and repetition of the processes around which a typical day in a University/College revolves is sometimes more time and energy-consuming than it should have been. The fully virtual system to manage various areas of these daunting tasks is what is getting offered through this application. The solution is packed with Industry 4.0 standard technologies and cutting-edge industry-leading development tools. This application is a more feasible, economical, and futuristic replacement of the current setup of a college management system.