

**Visvesvaraya National Institute of Technology, Nagpur**

**Department of Electronics and Communication Engineering**

**Project Report**

**Submitted to:** Dr Vipin Kamble

**Course:** Object-Oriented Programming (ECL 205)

**Date: 11th November 2022**

**Project Title: STUDAL**

**Submitted By:**

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| --- | --- | --- |
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**Project Summary (max 100 words):**

We are building a community of Students!

Students will be able to Log-in / Register and enter into their Portal where we will maintain all the things essential the student life.

All of the students’ data will be stored permanently in an Excel File so students can log in anytime they want.

Students Login using their Email-**: ID and Password**

Student faces many problems in their life.

We brought all their study material under our Portal.

We created a To-Do-List which will help the student increase their productivity.

We created a Games Portal so that students can relax from their daily life schedule.

**Project Title: "STUDAL'' ( Student Portal )**

**Software Requirements (if any):**

Working IDE + Compiler (Anaconda + Spyder recommended)

Also one needs to import libraries like

* Openpyxl
* Webbrowser
* Tkinter
* OpenCV
* Random

**Project Description:**

We have made this platform to help a student to follow his/her daily tasks most efficiently and smoothly by providing clicks links to the most important study material, Task monitoring, routine schedule, and the Game zone where one can overcome his/ her boredom and get back to work after relaxing.

**Features available:**

* TO-DO LIST: The student can create a To-Do List to monitor all his daily tasks and to increase his productivity. All of these tasks will also be saved in an excel file.
* STATISTICS: Here is the section where we are saving all the data of students, we also save important data like CGPA, and LinkedIn ID. We plan to add more data to this in future. This section will be most helpful for us to build a student community.

All of these data will be stored in an Excel File. So when you log in for the first time it will ask you for data, from next time onwards whenever you login data will be available there.

And so, **Openpyxl** is used here to read and write data into excel files.

* Time-Table and Academic Calender: Here we use **OpenCV** to display Time-Table and Academic Calender, now students will not have to search anywhere for them.
* Study Material: When we click this button, a google drive link is opened which consists of all the study material. This was possible by using the **Webbrowser** library in Python.
* Games: And last but not least this feature is made so that student gets relaxed from their busy schedule.

We have 3 games right now:-

1. Tic-Tac-Toe Game
2. SOS Game
3. Snake-Ladder-Gun Game

We plan to add further games in future.

**Conclusion and Future Work:**

We plan to build a student community in future, where students can also interact with each other and can connect with people from their institute.

We can add a variety of features to it, for example, we can add a chat box system where students can solve their doubts.

We can also add a study planner for students.

We also plan to add a timer facilty to our To-Do List.

We plan to make the password more secure and encrypted and to make it not accessible even for creators of STUDAL so that there is complete privacy for Students.

**References**:

Learnt Tkinter and Openpyxl from Youtube and Python Documentation.