

**OOP LAB PROJECT**

**NUCES Society Management System**

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# **Introduction**

A software application that superintends co-curricular societies working in NUCES FAST. The program will facilitate the students, faculty and visitors with knowledge of past, present and ongoing events of a particular society. In addition to that one can get all the information regarding society's motive and requirements to be a member. The program alleviates societies to skim the best possible candidates for their unit in a more efficient way. It will provide the user with a system to register for an account and have a check on all the notifications and deadlines for specific events of society. It will provide access to the society head to add or remove information regarding the society.

# **Scope of Project:**

After the successful enactment of our program based on a management system of societies it will allow the user with functionalities to register for an account, provide log in access to the account, register to be a member of a society, be informed about all past, future, and ongoing events, get to know all about a specific society chose. The admin has the right to enter details of societies.

Although apart from functioning entirely, the program has some exceptions. Firsly, only admin can update societies and event’s details. Society’s representatives will have to refer to admin to modify the society’s information. Secondly, the program evaluates applicants based on the information the applicants provide. The information is processed without being verified, which means this method of evaluation is unreliable.

**UML diagram whole:** Diagram

Description automatically generated

# **Segments Of Diagram.**

Diagram

Description automatically generated

The account class is an abstract class. This class is being hieratically inherited by Student and Faculty Class

The functions will help to enter and display accounts. The functions in Account class are being overridden by Faculty and student class.

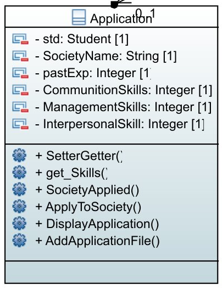
The objects created by Student and Faculty classes are also stored permanently by the means of Filing.

**Graphical user interface, text, application

Description automatically generated with medium confidence**Date class is used to store dates. It provides functionality to input a date. It also verifies that if the entered date is valid or not. Furthermore, the display date allows us to print date in proper organized manner.

Date Class also has functionality to compare dates and tell accordingly whether the first date is equal, greater, or lesser than second date.

Diagram

Description automatically generatedEvent class helps us to store different events which were organized by different societies. Events have “has a” relation with society. (Society has Events).

There are relevant Functions to properly save and display Events. Also there is a DetermineEventStatus() Function. One of the attributes of Event class is EventStatus. This attribute stores the value “past”, “ongoing” and “future” by comparing the event date with today’s date.

Society Class is the Major the class of the program all the functionalities in one way or another affects the Society class.

The functions are self-explanatory. There are also public arrays of EventNames [ ] and MemberNames [ ]. These arrays store the names of Events and Members respectively. Which are used to extract complete details from their respective file.

Class application and student have "has a" relationship. Application has an attribute of student. Through this the student can apply for a post in the society. The information will be passed to the faculty and then they will do the evaluation.