

CS315

Project Report

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The Students' Gymkhana is the students' government organization of IIT Kanpur. The Gymkhana seeks to cultivate qualities of leadership amongst students to foster a corporate life and to advance the general cause of the student body of the Institute. We wish to contribute our part to this by automating a commonly used Students' Gymkhana form - the Senator Seed Fund form.

Senator Seed Fund

This form is used to obtain Senator Seed Fund (SSF) for various unplanned but necessary activities by clubs/hobby groups (out of their prescribed budget). The form in its current state can be found on the link: **Click Here**.

The current procedure is a cumbersome one, where the club/hobby group representative physically goes to various office bearers to get their approval, and then approaches each senator, and also goes to them physically to get the approval on whatever amount is promised. There are many constraints involved during the process, like a senator cannot promise more than 30% of the amount allocated to that senator for any activity. Maintaining records is also a difficult task. This automation will ease out all above problems.

Note: The following office bearers have specific IITK ID for their work:

- Chairperson, Students' Senate: chair_ss
- President, Students' Gymkhana: presidentsg
- General Secretary, Cultural Affairs: culsecy
- General Secretary, Films and Media: fmcsecy
- General Secretary, Science and Technology: sntsecy
- General Secretary, Games and Sports: sportsecy

The following is a list of different classes of people who will have different rights in the application portal:

- **General Body member:** Every general body member can log in into the portal and create a form to request for SSF. He/she will be able to edit his/her form, but only before approval from the concerned General Secretary, to protect against unfair use of this portal (He/she might change the description, amount required, etc as per his/her requirements later, which should not be the case, hence this check).
- **Senator:** Every senator is a general body member too, so he/she will inherit all properties of any general body member. Apart from that, every senator has some amount allocated to him/her, which he/she can promise for different activities as per demand/choice. So he/she will have an additional option of pledging money or changing the amount that has been already pledged to active forms only (defined later) within the prescribed constraints that he/she cannot exceed the amount allocated to him/her and that he/she cannot promise more than 30% of his funds to one particular activity.

- **Executives:** When someone logs in with the account of an Executive, he/she will be only exercise his/her right as an Executive, and not as a general body member as per our schema. The concerned office bearer will have to use his/her normal IITK account to be able to exercise his rights of a general body member. In their capacity as an executive, they can approve/disapprove of a form that has been floated by a general body member under the head of their council. They can also change details in the form as per their wisdom, but only before the approval/rejection of the Chair. This is necessary to regulate what activities are being allowed to use SSF as a source of income. Additionally, the Executives can also directly send an active form to the Finance Convener for further processing before the actual expiry conditions are met if they find it necessary to do so.
- **Chairperson, Students' Senate:** The Chair is a member senate first, and hence he/she will have rights including that of General Body member and a Senator. But to exercise those rights, the concerned person will have to log in using his normal IITK ID. As a Chair, he/she will be the admin of the panel, and can monitor/regulate all activities going on (as a whole). But specifically, he/she will have the an option of adding a senator to the Senate List. This list will specify which general body members will have the additional choice of pledging money, and all relevant details pertaining to it. Apart from this, the Chair will be able to approve/reject a form that has been earlier approved by some Executive. There is no point in displaying forms that have not been approved by the concerned Executive to the chair. The Chair can also edit the form as and when he/she feels it is required. Only after the chair has approved of a form will that form be considered as active.
- **Finance Convener:** Since all this is a matter of money, the final approval of the finance convener will be required. He/She has the final authority in this. When a form expires, i.e. either the target money is reached, or the last day till which it will be active has passed, the form goes to the finance convener. If the finance convener approves, then the pledged money is deducted from the senator's account, and transferred to the concerned account, but if it is rejected, the money goes back from being pledged to the head of unused money, which can be pledged again.

NOTE:

1) All other approvals are perfectly reversible, i.e. of the Chair and Executives, but only in the defined order. To clarify in detail, the General Secretary cannot change his/her decision after the form has been approved/disapproved by the Chair. To be able to do that, the chair must change the status of the form to waiting so that the General Secretary can change anything he wishes to in the form. Even a senator can change the amount of money pledged for an active form.

2) In case of the finance convener, if he accepts or rejects a form, then all the data of pledged money is lost, and the form will be permanently accepted or rejected respectively, hence his decision is not reversible.

The idea behind this is that the finance convener might be rejecting an activity for which all other office bearers have agreed to, the reasons might be very strong.

3) Also, a form can exist only in the following states: unapproved, active or expired. Initially it is unapproved. If accepted by General Secretary and Chair, it becomes active, and hence open for pledging money. Only active forms that expired are shown to the finance convener.