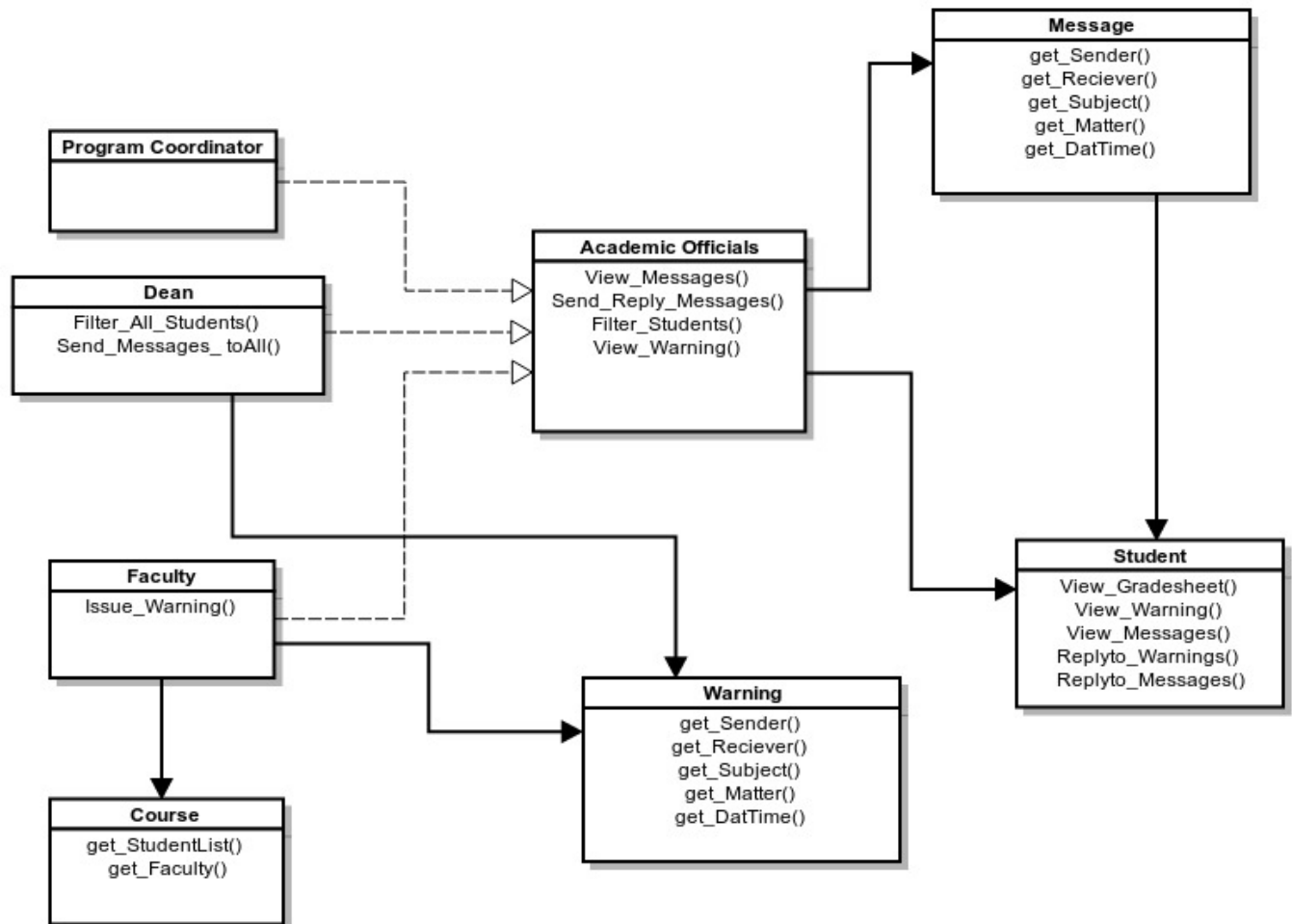


Product Design

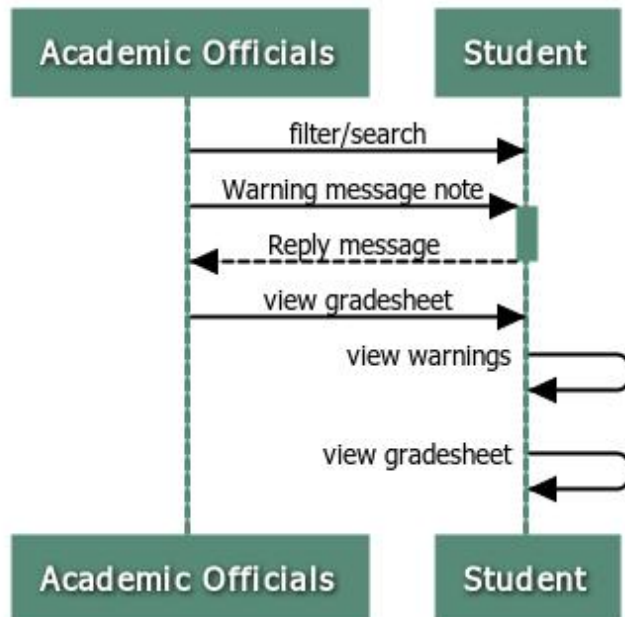
Team: #7, Aditya Jain, Juhi Tandon, Karan Aggarwal, Raveesh Motlani

Students Filter	<p>Component State</p> <ul style="list-style-type: none">• Course Option• Batch Option• Program Option <p>Component Behaviour</p> <ul style="list-style-type: none">• Fetch Student Records from DB (based on parameters selected)• Generate student list
Student Search Bar	<p>Component State</p> <ul style="list-style-type: none">• Student Name <p>Component Behaviour</p> <ul style="list-style-type: none">• Fetch matching(partially or fully) records from DB• Display matching records
Authentication	<p>Component State</p> <ul style="list-style-type: none">• Login Details <p>Component Behaviour</p> <ul style="list-style-type: none">• Authenticates Validity of user login details from IIIT-H Database• Identifies User Role (Faculty, Dean, Student)
Send Message/Warning	<p>Component State</p> <ul style="list-style-type: none">• Sender's Email ID• Receiver's Email ID• Other Receivers' (CC/BCC) Email IDs• Subject• Message Body <p>Component Behaviour</p> <ul style="list-style-type: none">• Store the message text for all receivers• Send notification on email ids of receivers
View Messages/Warning (Threads)	<p>Component State</p> <ul style="list-style-type: none">• Stores the complete conversation from various users upon that Subject. <p>Component Behaviour</p> <ul style="list-style-type: none">• Reply Option• Shows queue of all the messages related to each warning.

Class Diagram



Sequence Diagram



Design Rationale

1. Student Filter: Any user (other than Student) should be able to choose a combination of Course, Batch and Program to get a filtered list of students satisfying this criteria. This was designed in this manner to facilitate easy finding of a student whose complete details (name and roll no.) aren't known to the user.
2. Student Search: If the user knows the student name or roll no.(partially or fully) then he/she can find the student directly by entering a part of name/roll no in the search bar. The students whose names or roll numbers contains the typed text will be looked up in the database and displayed.
3. Authentication: Since all the users for this system will definitely have a user account on the IIITH server (.iiit.ac.in), so they can be easily authenticated via CAS(**C**entral **A**uthentication **S**ervice). This login criteria will also help us differentiate between different kind of users (student,faculty,dean) and thus open their respective user interface.
4. Send Warning/Message: Previously, for sending a message/warning, user was directed to a new page. Now a pop-up is generated, hence small tasks are incurred on the same page rather than redirecting to a new page.
5. View Messages/Warnings: On a single warning, there can be a whole conversation that can take place between the concerned people. All these conversations are stored as threads and displayed in place , once the warning/message is clicked.