## Function:

Alert and Announcements: Program Admission Deadlines and Test Dates

## Description:

Automatically inform students of Program Admission Deadlines and Test Dates, based on their registered interest in specific university or filled admission forms in specific program of any university. Sends reminders and emails to ensure that student won’t miss any deadline during the whole process, this function will send emails with deadlines of filling out form to the students who have not filled out admission forms yet , and those students who have filled out forms will only receive test dates deadlines emails.

## Inputs:

* DaysBeforeAlert (To specify how many days before u have to send an email to update)

## Outputs:

Emails containing Alerts and Announcements for approaching deadlines related to admission deadlines and test dates to each student.

## Destination:

Student email addresses.

## Action:

Class Student

//MAIN FUNCTION

Function Alert and Announcements (DaysBeforeAlert)

**//STEP 1: RETRIEVE STUDENT’S INTERESTS AND BOOKMARKS**

interestedUniversities <-- this.getBookmarkedUniversities()

**//STEP 2: CHECK DEADLINES OF EACH UNIVERSITY INTERESTED PROGRAM OF STUDENT**

FOR each university of interestedUniversities

ProgramsList <-- university.getSpecifiedPrograms()

**//STEP 3: CHECKING FROM INTERESTED PROGRAMS LIST THAT STUDENT HAS FILLED ITS APPLICATION FORM /OR NOT**

FOR each program of ProgramsList

IF (this.hasFilledApplicationForm(program.id))

testDeadline <-- program.getTestDealine()

**//STEP 4: CHECKING THE TESTDATE TO SEND THE ALERTS EMAILS**

IF (isDeadlineUpcoming ( testDeadline,DaysBeforeAlert))

SendEmailAlert(this, university,program, “Test Date”, testDeadline)

SaveInformation(this, university,program, “Test Date”) // this function will keep history of sending emails to avoid repetition

END IF

ELSE

AdmissionDeadline <-- program.getFillingAdmissionFormDeadline()

**//STEP 5: CHECKING DATE IF ADMISSION DEADLINE OF FILLING OUT FORM IS COMING**

IF (isDeadlineUpcoming ( AdmissionDeadline,DaysBeforeAlert))

SendEmailAlert(this, university,program, “Admission Deadline”, AdmissionDeadline)

SaveInformation(this, university,program, “Admission Deadline”)

END IF

END IF

END FOR

END FOR

END Function

**// HELPER FUNCTIONS**

**//FUNCTION TO CALCULATE IF DEADLINE IS UPCOMING OR NOT**

FUNCTION isDeadlineUpcoming(deadline,daysBeforeAlert)

currentDate<-- getCurrentDate()

IF (deadline – currentDate)<=daysBeforeAlert

Return true

ELSE

Return false

END FUNCTION

**//FUNCTION TO SEND EMAILS TO SPECIFIED STUDENT**

FUNCTION SendEmailAlert(university,program,alertType,deadline)

emailData <-- WriteEmailContent(this,university,program,alertType,deadline)

SendEmail(this.email, emailData)

END FUNCTION

**//FUNCTION TO SAVE INFO OF EMAIL IN SYSTEM AS HISTORY**

FUNCTION SaveInformation(university, program,alertType)

EmailHistory.add(university.id, program.id, alertType, getCurrentDate())

END FUNCTION

END class

## Requires:

* Accurate Up-to-date programs and deadlines
* List of Student’s bookmarked universties

## Pre-Condition:

System contains valid programs and deadlines.

## Post-Condition:

Student timely receives the emails and announcements for test dates and admission dates and system logs the emails sent as history.

## Side-Effects:

None