

# smarTAlloc! – Detailed Description

## Group 3

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## AIM

To create an automated TA allocation system which will simplify the current process of allocation for all end – users.

## END USERS

It is very essential to identify the end-users as they are the people who will use our product - depending on its usability.

- Academic Manager : Mr. Vivek Tiwari
- TA Allocation In-charge: Dr. Astrid Kiehn , Dr. Vikram Goyal
- Course Instructors
- Teaching Assistants : PhD, MTech and BTech

## PROCESS FLOW

We identified the end-users, met up with them and received the required inputs. We have implemented their suggestions and requirements in our product to the best possible extent.

Since, according to a survey we conducted, majority of the users requested for a website to carry out this process, we plan to design a website. We intend to provide restricted access i.e. only the end-users would be able to login using their cyberoam or moodle password. Also, the view is modified according to each user. The Administrators (TA Allocation In-charges), Instructors and Academic

Manager are given special permissions (edit rights) as per the requirement so that they are able to update, modify and publish the details or information.



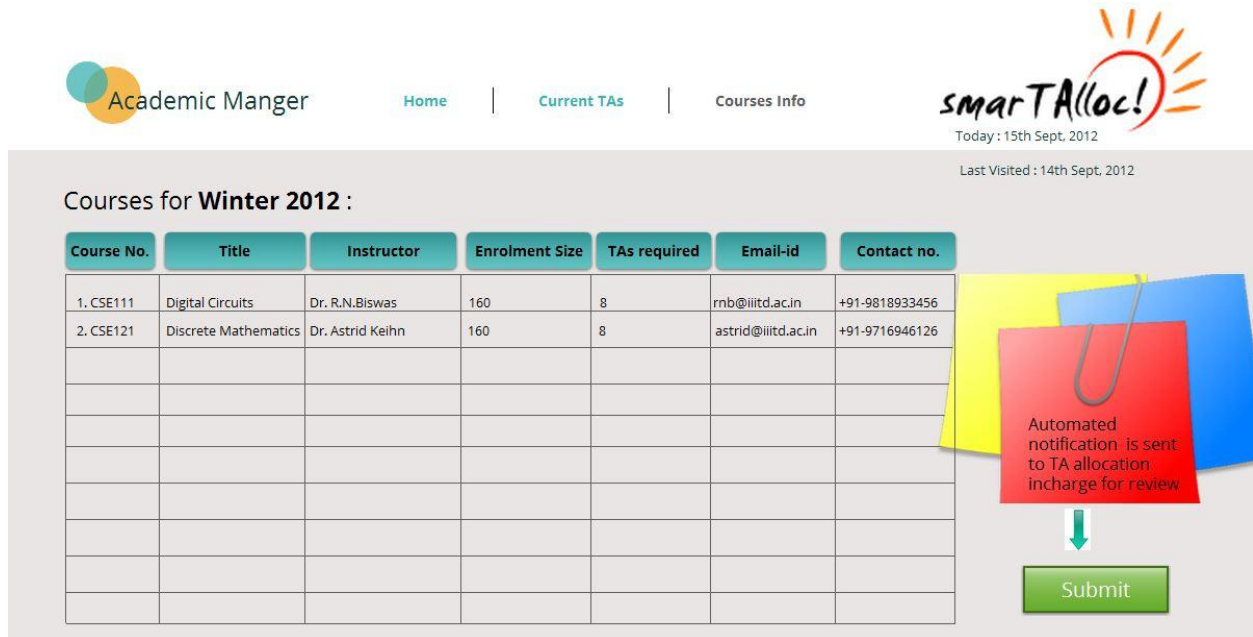
1.1 Login Screen for all end-users (Mock UI)

Initially, the Academic Manager (Mr. Vivek Tiwari) prepares a list of all the teaching assistants and related information for the particular semester. He obtains this information via the pre-registration (in ERP) for old students and during the orientation for newer candidates. He updates this information on the website after logging in to his account.



1.2 Academic Manager's View. He enters the details of all TAs and Submits it (Updated on the Website)

He also updates the courses offered in the semester along with the details pertaining to the course (Instructor(s), Enrollment Size, Contact Details, etc.). This information is again obtained through pre-registration (in ERP) and during Orientation. The Number of TAs required for each course will be automated by the website according to the current policy (One TA per 20 students) and updated accordingly.



The screenshot shows the 'Academic Manger' website. The header includes a logo, navigation links (Home, Current TAs, Courses Info), and a date (Today: 15th Sept, 2012). The main content area is titled 'Courses for Winter 2012 :'. It features a table with columns: Course No., Title, Instructor, Enrolment Size, TAs required, Email-id, and Contact no. The table contains two rows of data. To the right of the table, there is a graphic of a red folder with a paperclip and a green 'Submit' button. A message box indicates that an automated notification is sent to the TA allocation incharge for review.

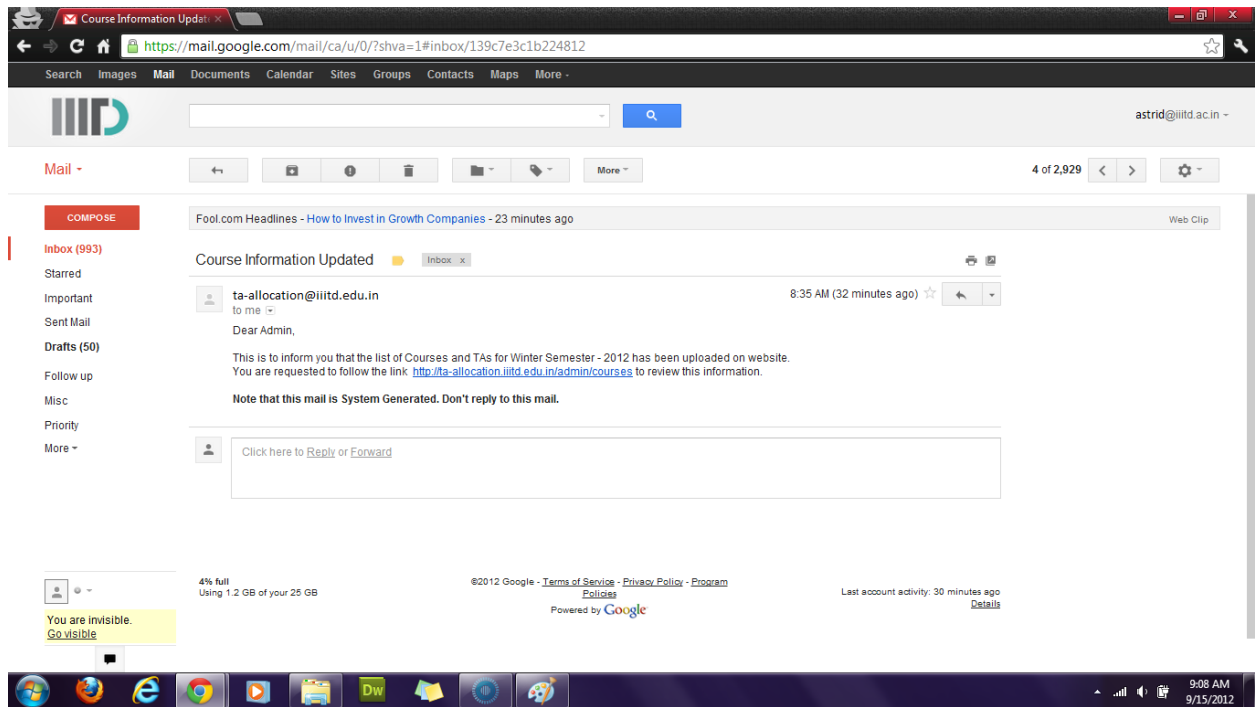
Course No.	Title	Instructor	Enrolment Size	TAs required	Email-id	Contact no.
1. CSE111	Digital Circuits	Dr. R.N.Biswas	160	8	rnb@iiitd.ac.in	+91-9818933456
2. CSE121	Discrete Mathematics	Dr. Astrid Keihn	160	8	astrid@iiitd.ac.in	+91-9716946126

Automated notification is sent to TA allocation incharge for review

Submit

### 1.3 Academic Manager's View. Academic Manager enters the details of all courses and Submits it (Updated on the Website)

The Academic manager also uploads the current time-table on the website database. As soon as the information is updated on the website, an automated mail notification is sent to the administrators to review the updated information. The admin logs in on the website to do the same. The admin has a separate view as mentioned earlier. The admin has the permissions to make any changes in the updated information if required (increase or decrease TA requirement as required) and update it on the website.



2.1 Email Notification automated by the website is sent to the Administrator to review the information

[Home](#) | 
 [Current TAs](#) | 
 [Courses Info](#) | 
 [TA responses](#) | 
 [Applications](#)

Today: 15th Sept, 2012  
 Last Visited : 14th Sept, 2012

### Current Teaching Assistants for Winter 2012 :

TA Name	Programme	Batch	Email-id	Contact No.
1. Monika Gupta	PhD	2012	monikag@iiitd.ac.in	8130201223
2. Dipto Sarkar	PhD	2012	diptos@iiitd.ac.in	8564123688

Reviews the list of TAs and their details.

Edit

1.4 Administrator's View. The admin reviews details of all TAs, edits it if required and Submits it (Updated on the Website)

## Send

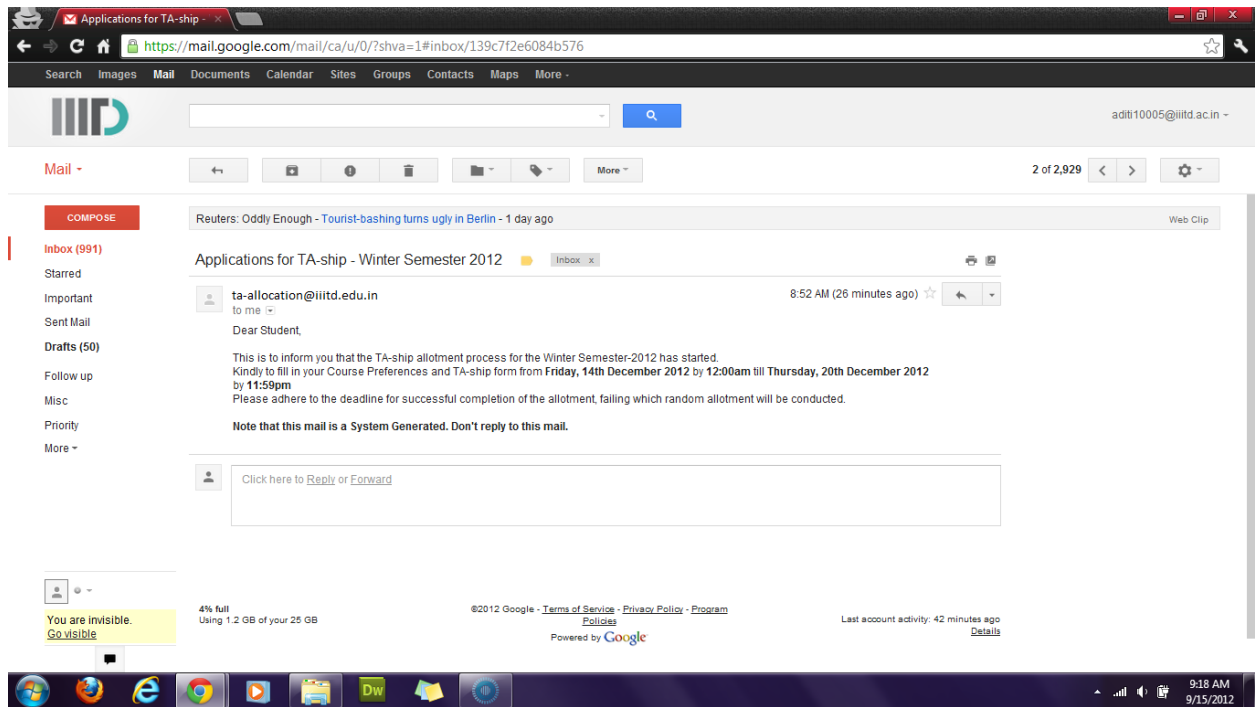
2.2 Email Notification automated by the website is sent to the Instructor to update his course details

The instructor logs in and makes the required updates on the website in his view. He updates the course details of the course he has been assigned in that semester along with the work expectations - specifying what the course demands (For instance, the course might demand more lab work or might require a theoretical background – more tutorials) ensuring that the TA is aware of what is expected of him or her before signing up for it – and other specific requirements (For instance, more TAs are required by an instructor).

The screenshot displays the 'smarTAlloc!' web application interface for an instructor. At the top, there is a header with the instructor's profile (Dr. Ashish Surekha), navigation links (Home, TA Selection, Result), and the current date (Today: 15th Sept. 2012). The main content area is divided into several sections: 'Course No.' (CSE 300), 'Course Name' (Software Engineering), 'Course Details' (Software Engineering - Real life projects), and 'Work Expectations' (Project Advisor, Demos). A 'Special Requirements' section shows 'Require More TAs for flipped classroom'. A red sticky note with a yellow border indicates 'Updating all the course info, work expectations from TAs and any special requirement.' with an 'Update' button. At the bottom, contact information is provided: Email ID: ashish@iiitd.ac.in and Contact No: +91-9999950522.

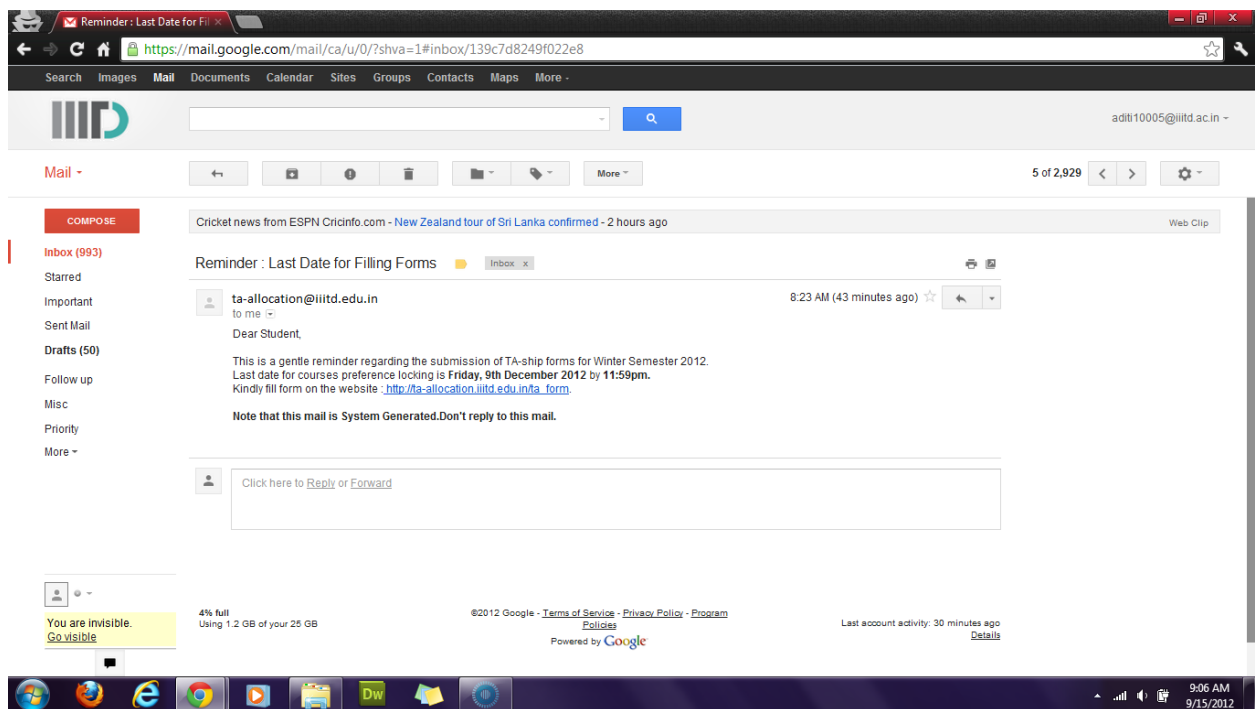
### *1.6 Instructor's View. He updates all the required information*

The admin reviews the updated information after the deadline expires. If the admin feels the need for any changes she would personally contact the specific instructor and proceed accordingly. Once the changes are finalised, the admin makes the final updation on the website, on completion of which automated mail notifications are sent to the teaching assistants to lock their preferences on the website and provide any other information if required. A deadline is specified in the mail as set by the admin before which the TAs have to lock their choices.



### 2.3 Email Notification automated by the website is sent to the teaching assistants to lock their choices

A reminder automated by the website is sent to all TAs to lock their preferences 24 hours before the deadline expires.



### 2.4 Reminder automated by the website is sent to the teaching assistants to lock their preferences



The choices are automatically updated on the form as and when they are selected, in the order of requested preference. The form also requests the TA to fill in other details – languages known, tools used and other qualifications to ensure optimum allocation. Here, the TA is again allowed to save her or his session and return to it whenever he or she feels like - before the deadline, failing which pre-existing choices are assumed to be final and are auto-submitted. Once the TA is finished with updating the information, he or she can submit the form.





Teaching Assistant  
Monika Gupta

Home | Courses | Availability | Application | Results



## TAship Form : Winter Semester 2012

**Fill in your details:**

Languages Known:  
C, Java, Python ...

[Edit](#)

Tools Used:  
Eclipse, DreamWeaver ...

[Edit](#)

Other qualifications:  
Project in Software Engineering

[Edit](#)

**Selected Courses Preferences:**

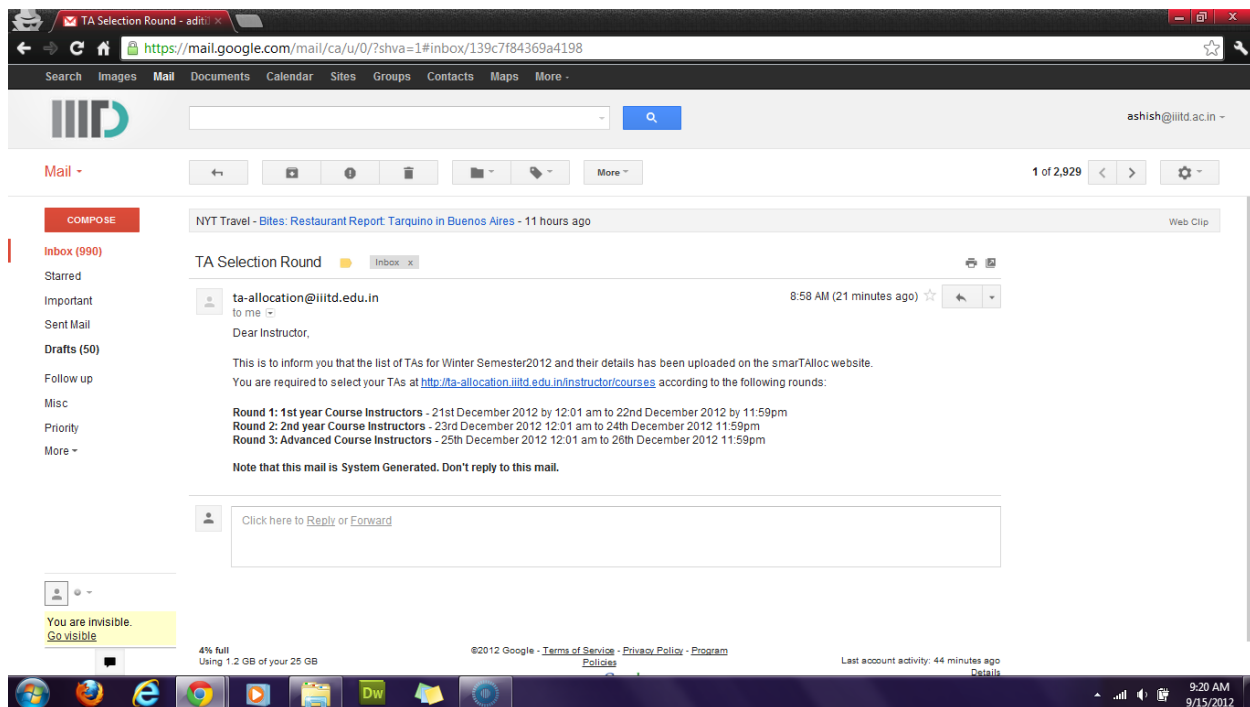
Preferences	Course #	Course Name
Best	CSE 300	Software Engineering
Okay	CSE 121	Discrete Mathematics
MayBe	CSE 101	Digital Circuits



Back
Save Form
Submit
Log Out

*1.8 Teaching Assistant's View. She fills in details requested*

Once the deadline expires the admin views the updated information and sets time slots for instructors to pick their TAs. An automated mail is sent to the instructors requesting them to select their TAs within the set deadline. A reminder automated by the website is sent 24 hours before the deadline.



*2.5 Email Notification automated by the website is sent to the Instructor to select his TAs*



Dr. Anand Kumar

## Applications



Last Visited : 14th Sept, 2012

### Third Preference TAs

[illegible]

Submit

Automated emails notifications are sent to the TAs informing them to check the website for their assigned course and to the instructors confirming their selection . The TA can login to the website and view his or her assigned course.



Teaching Assistant  
Monika Gupta

[Home](#)[Courses](#)[Availability](#)[Application](#)[Results](#)

Last Visited : 14th Sept, 2012

Today: 15th Sept, 2012

## Your given preferences:

Preferences	Course #	Course Name
Best	CSE 300	Software Engineering
Okay	CSE 121	Discrete Mathematics
Maybe	CSE 101	Digital Circuits



## Final Course Allotment:

**CSE 300 - Software Engineering**

1.10 Teaching Assistant's View. She views the course allotted to her