

## **Research Conference Management**

### **Group 3.2**

**201401137- Mohit Savaliya**

**201401162- Dhaval Panjwani**

Firstly, we will see what is the initial procedure that goes in the mind of someone who wants to submit a research paper.

- 1) **Find the area of interest:** Read, read and read. Do an extensive literature reading for this and find a research problem which interests you.
- 2) **Find a research problem:** Do a literature survey and find a research problem which interests you in your deduced area of interest.
- 3) **Work on the problem:** Work on the research problem. Consult the professors or experts. Take their suggestions on how to tackle the problem. Try to obtain results which really improves the current state-of-approach or which really makes a difference.
- 4) **After-math:** After you are done solving the problem and writing your papers, consult some local expert like professors, other researchers, etc.
- 5) **Find an appropriate journal/conference:** Select a journal/conference based on the results and the impact factor/reach of the journal/conference. Use tools like Google Metrics, etc to select a journal/conference. Read its scope, past papers and reviews. If you feel that the reviews are good and your research paper will have significant impact, target a major journal/conference from Elsevier, IEEE, Springer, Wiley etc.
- 6) **Draft the script and communicate with the journal/conference/publisher:** Every journal/conference has its own specifications. After selection prepare the manuscript according to the guidelines.

- 7) **Wait for the expert suggestions:** The manuscript will get accepted and then published only if it is acceptable by the reviewers.

Considering this general norm of a person to register in a research conference, we will tentatively know the problem and will construct a layman approach to solve it. The core aim is to design a system for managing the upcoming conference.

## **About the Conference**

University students in all academic fields are invited to submit an abstract and registration information to participate in the Research Conference. Research projects must have been conducted under the supervision of a faculty member or professional in the field. There should be a written reference letter or document from the supervisor recommended on your name. The conference is designed to acquaint enthusiasts with the process and academic rigors of presenting research in a scholarly manner.

Additionally, the conference aims to stimulate interaction between students and faculty, students and professionals, while encouraging participants to pursue advanced degrees toward the goal of research and college teaching. Participants will present their research projects to faculty, staff and other conference participants in either a poster or written format with graphical portions(if needed). In the poster session, participants will have designed a visual poster representing their research and will be presenting their work to individual conference participants over a 1-hour session. While participating in research provides excellent preparation for graduate study, presenting your work at this conference will further enhance your experience and become even more valuable as you are considered for admission to graduate or professional schools. Each participant selected to be a presenter will be individually recognized for his/her contribution to university academic achievement.

The Research Conference is organized by an organized committee and chaired by XYZ.

## **The Overall Process**

Initially, the organization will call in for the researchers to submit in the papers and the abstracts. These abstracts would be a highlight of their core work. Research projects must have been conducted under the supervision of a faculty member or professional in the field. The conference is designed to acquaint participants with the process and academic rigors of presenting research in a scholarly manner. There will be fixed deadline of around 15-25 days for the researchers to submit in the abstracts. This is the primary stage where in anyone throughout the world could participate in.

These submitted papers will be handled over to the organizing committee through courier or hand-to-hand or through a web application online. These papers will be handled and reviewed by the primary reviewers. They even check whether the articles submitted are genuine and not plagiarised. Finally, they will select the articles and accordingly notify the authors about their selection in regular and poster sessions. This primary stage is like a filter or refinement so that none of non-genuine applications enter the main conference and to look that only quality content enters the main conference.

Then after that, the registration for the research conference opens. These authors notified will now have to register themselves to the conference. Secondly, they also have to prepare their final scientific document for submission.

At this point of time, the organization will open the “Travel Grant support” registrations for the authors. This grant will be soon deadlined. After that the results of “Travel Grant Awards” will go open.

Applicants will be notified with the results of grant awarded. After that, soon will the deadline for registration of selected participants of primary phase. The accepted

authors can request the organization unit to arrange side meetings with the facilities before hand. They should also request the unit about the requirement of tools/technologies or exhibition space needed well before the scheduled date of exhibition conference. Then authors will arrive at the conference place and will be welcomed and given proper accommodation throughout the conference.

Late registrations will be followed by higher penalty charges in registration amount. Then there will be deadline for last day late registrations. After that no registrations will be accepted at all even with penalty. The registered authors will have to upload final scientific document of their research projects. The secondary experts will study and review the final document and will pitch in suggestions and editings needed to the authors on the portal. Then local management committee will give away the slots and space to the authors for the main ceremony. Finally, opening ceremony commences.

Onspot registrations for the attendees will be entertained even after the ceremony commences. Moreover accommodation and food services too will be provided to the attendees at considerable amount. Although the beforehand registrations as an attendee will be charged less and will get better preference in seats and accommodation too as compared to on spot attendee registrations.

## **Managing the Conference or The Conference Management Unit**

There will be committees to assist with specific functions like registration committee, exhibits committee, local arrangement committee, online portal management and e-mail checking committee, Grant awarding committee, reviewers committee and the final approval committee.

Registration committee will plans and runs conference registration both advance and on website. Also it will run procedures and logistics like handling of credit/debit card fees, cancellation policy. It will charge more fees for the late registrations.

Exhibits committee will ensure proper handling of papers, contracts, floor space, security services and other logistics.

Local management committee will works with local vendors, management companies, room set-up, tours etc.

Online portal management and e-mail checking committee will reply the email and manage the portal by updating the information.

Grant awarding committee accepts the request from user to give grant for financial support like travel, food etc and pass the grants for applicable users.

## **Types of Reviewers**

**Primary reviewers:** The main objective of these reviewers will be to briefly go through all the applied research papers/short-abstracts in order to select good ones out of them for regular sessions. Like for example, if the total number of applications related to “Human Computer Interaction” are 50, these will be briefly seen by primary reviewers and will be accordingly selected. Then the authors of the selected papers will be notified to register themselves to the conference.

**Subject Experts:** The main objective of subject experts will be to do an in depth study of the full papers registered by those notified authors. These reviewers for example as mentioned above, if the number of selected applications are 25 in primary stage, they all will be studied in depth here by respective subject experts. These papers will then be further proceeded by suggestions or comments by experts. And finally they will accept the best of the research papers for the conference.

**Core reviewers:** Now what if 20 applicants have very good papers but we have to accept only 15 as per our conference guidelines for “Human Computer Interaction” field! In that case, those 20 applications will be studied and compared with primary goal of “need of the papers for the change-of-state of the current system” by these core reviewers. Then according to their suggestions, final committee will pitch in the accepted papers.

### **Publications Board (Copyrights Board)**

There will be a publication board in the conference committee. This board will hold, handle and follow some standard guidelines for the aftermath of accepted paper works. Those papers which are fully accepted will be sent to the publications board for copyrights and permissions. It will then communicate with the author and accordingly decide the reprints about the paper. Publications board also offers users the opportunity to obtain permission to reuse the past journals, conferences and standards copyrighted materials quickly, easily, and legally.



## **Submission Portal**

### **Registration form:-**

This is for details of user and for submission of their research papers and take payment by credit/debit card.

### **Collect research papers:-**

We'll need to create a custom form for researchers. All the submitted data store online and backup daily. Company can export it for offline use. These papers in the initial phase be sent to the Primary reviewers for selection.

### **Accepting and notify users:-**

After selecting the authors, conference management unit with the decision of Primary Reviewers can notify the users by previously registered email address or mobile number by one click.

### **Important dates and venues:-**

It will show all the deadlines for submit papers and important dates for the final conference and it's venue.

### **Reviews and comments:-**

After accepting or refusing any submission by Subject Experts, they can give reviews and make a comment on user's submission.

### **Advertisement:- vouchers and timetable:-**

Share an online time table for conference. Get a print ready voucher to give user's printer.

### **Timeline for the Research Conference**

- Opens for submissions of paper or abstracts
- Last day to submit paper and abstracts
- Authors are notified if their paper abstracts have been accepted in regular and poster sessions.
- Registration for Research Conference opens
- Deadline for submitting applications for “Travel Grant support”
- Participants informed of “Travel grants awarded”
- Deadline for accepted authors to register
- Deadline to request facilities for side meetings and conference exhibition space
- Last day for late registration fees
- Deadline for uploading completed scientific document.
- Accommodations for the accepted authors.
- Opening Ceremony.
- Onspot registrations for the attendees on the date of conference.
- Accommodations for the on spot attendees

# Research conference management

## Group 3.2

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### Background Readings

<http://www.sigchi.org/conferences/Conferences%20Policies/chi-review>

DRAFT: Policies for Submission and Review at Conference

<http://ipc2017capetown.iussp.org/about-the-conference>

General idea about the conduct of a conference

<https://www.exordo.com/>

Submission portal for collecting data from the users for further selection for a conference

[https://www.ieee.org/conferences\\_events/conferences/organizers/roles\\_responsibilities.html](https://www.ieee.org/conferences_events/conferences/organizers/roles_responsibilities.html)

Managing the conference by assigning specific key responsibilities to subcommittees

<https://www.exordo.com/blog/3-elements-of-a-successful-conference/>

<http://technav.ieee.org/tag/1389/project-management>

About project management

<http://www.ircmes.com/Registration.html>

Registration guidelines and fees for a research conference

[https://www.ieee.org/conferences\\_events/conferences/organizers/index.html#sect2](https://www.ieee.org/conferences_events/conferences/organizers/index.html#sect2)

About chairs and conference organizers to organize a research conference

<https://www.quora.com/How-can-I-publish-research-papers-for-BTech-computer-science-students-in-journals-like-IEEE>

General users how to submit their research papers short guideline

[https://meta.wikimedia.org/wiki/Research:Wikipedia\\_Research\\_Management](https://meta.wikimedia.org/wiki/Research:Wikipedia_Research_Management)

Wikimedias definition and approach to manage,conduct and hold a research management system for general use.

## **Research Conference: Interview Plan**

### **Group 3.2**

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**Interview plan** :- Conference Solutions

**System** :- Research Conference System

**Project references** :- SSD/SEN/2589

**Participants** :- Rohit Patel (HOD, Electrical Eng. in Ganpat University)  
Dhaval Panjwani (Conference Solutions)  
Mohit Savaliya (Conference Solutions)

**Date** :- 21/01/2017

**Time** :- 18:00 hrs

**Duration** :- 1 hour

**Place** :- Ganpat University, Ahmedabad

**Purpose of interview** :-

To take a look on the scenario of a national research conference, along with the problems in the scenario where we while visiting a research conference as a viewer and as an applicant. Based on the data, we will analyse about management techniques for organising the conference.

**Main agenda** :-

- Ideas for management of research conference
- Current research papers checking procedure
- Problems with cyber security in online registrations, transactions, grants,etc
- Problems while submitting abstracts
- Fee refund policy
- Funding policy for transportation and food
- Managing accommodation for visitors and conference applicants
- Discuss about prize money

Discuss about dates and venue

Discuss about voucher, registration form and timetable

Knowing about prize money awarded to top candidates of the conference

**Document to be bought to interview :-**

Rough described plan to manage a research conference

Rough described plan of online abstract submission portal

Rough fee structure for applicants and visitors

## **Research Conference: Interview summary**

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### **Purpose of Interview :-**

Research conference at IITk

- Security of own institute , no extra security.
- Entry is available for visitors on the spot.
- Research papers subject to be submitted one month before conference date.
- Travel and food expense given by authority.
- 3 days conference.
- Accommodation was also available.

- There were two kinds of committee like advisory committee and executive committee.
- There was no on-site registration.
- All delegates were requested to register online.
- There were category of awards like poster awards, etc.
- There was a cultural gathering at night.



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### **Questainarre**

- 1] What is your age?
  - Below 20
  - 20-40 years
  - 40-60 years
  - 60 and above
- 2] What are your areas of interest? (select at most three)
  - Biology
  - Chemistry
  - Mathematics
  - Physics
  - Biometrics
  - Human Computer Interaction
  - Cryptography
  - Graph Theory
  - Computer Architecture
- 3] Have you ever attended any research conference as a viewer?
  - Yes no
- 4] How was your experience about the services provided by the management?
  - 1 2 3 4 5
- 5] What was/were the things which dissatisfied you in terms of attendee service by the organization ?
- 6] Have you ever registered your research project for any research conference ?
- 7] What is the size of research paper you have submitted? (Enter in terms of number of pages)

8] Do you know how to submit an Abstract?

Yes no

9] What factors do you consider before submitting any research paper?

No. of pages

Safe

Expert opinions

Nothing specific

Other

10] Have you ever submitted more than one research paper at any conference?

Yes no

11] Have you paid any fees for that submission ?

Yes no

12] If you paid fee for your submission then how much is it?

13] If you haven't paid any fees, how much grant were you offered by the organization?

14] Have your abstract been accepted at any conference before?

Yes no

15] Have the organizers provided any funds like transportation, food after selecting your preference?

Yes no

16] If yes then how much is it?

17] Did you ever have any problem while getting financial support?

Yes no

18] If yes then what type of problem?

Getting late funding

Getting less funding than what they first show

19] Has there been any time that rejected your research paper?

Yes no

20] After rejection of your abstract, did you get your refund?

Yes no

21] Have you got certificate after attempting any research conference?

Yes no

22] What support opportunities would you like to available after getting accepted at a research conference?

23] What exhibiting opportunities would you like to avail yourself if you were presenting your project at the conference?

24] Was there any dress code for the conference?

25] How was the management of previously attempted conference?

Poor 1 2 3 4 5 Excellent

26] Note any suggestions to improve the system.

### **Specific questions for organisers**

27] Around how many researchers show their interest in previously organized conference?

100-1000 persons

1000-2000 persons

More than 2000 persons

28] How many people you prefer to accomodate throughout the conference?

100-1000 persons

1000-1500 persons

More than 1500 persons

29] How many people you prefer to give funds for travel grants for conference?

100-1000 persons

1000-1500 persons

More than 1500 persons

30] How many days approx you need to organize the research conference?

5-10 days

More than 10 days

31] Which type of problems did you face?

32] What factors did you consider while selecting the reviewers?

33] What factors do you consider while selecting the local management board ?

34] Approx how many sponsors came to previously Conference?

35] How much was the funding sponsored?

# **Research conference management**

## **Observation**

### **Group 3.2**

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This research conference was a two day event, including a seminar specifically for postgraduate students, followed by a dinner. The conference was basically about interesting talks on English and German literature, specifically. We tried to make the most out of this experience, watching all the presentations, listening to other papers and attending the events surrounding the conference.

In my opinion, one of the great things about a conference for an applying student is meeting other postgraduates. It is a wonderful opportunity to have people same like you on your side. Of Course even as a viewer too, you can fetch in those benefits. And can speak to people who are interested in the same research areas as you but study at different Universities and Colleges. At the Conference venue, we met different people from countries and cultures including Austria, Germany, Netherlands and the UK and we had the chance to chat about our research but also about life as a PhD-student. This is why not only the official part of a conference with all the papers and presentations is a worthwhile experience but also the accompanying social events.

The Annual Conference started on Friday afternoon with a Postgraduate Workshop on public engagement. The organizers had kept active volunteers around the registration desk which were helping visitors register to system and let them in. Those visitors who had opted for accommodation were given passes for accommodation by organizers and shown their way to the place. There were two interesting talks on different opportunities of making your research available to a wider, non-academic audience, followed by a seminar about using digital platforms. In the evening, everyone gathered at the University's pub for dinner, where they all shared a table with a group of other postgraduates – all from different Universities – and enjoyed not only dinner but most of all the company. Young academics often find it intimidating enough to give a paper at a conference and to participate in discussions, let alone attending social events on top of that. However, there are always other like-minded students or early career researchers and it is certainly worth it to get out of your comfort zone and join dinners, drinks and other socials.

One has to give a paper focusing on his/her own topic of research elaborating on how they address taboos, push at boundaries and break with aesthetic as well as social conventions. They have to present for 20-minutes.. The presentation was followed by a discussion, where presenter receives very encouraging and constructive feedback. The idea of having to answer the questions of other researchers, most of them well versed in academic conferences, feels a bit scary generally for the first time conference presenters. In retrospect, they all too know it is a great opportunity to gather different opinions on your work and learn from more experienced colleagues, so they mostly give their all efforts.

Apart from giving your own paper, it feels great to have the chance to listen to other people's work. This inspires and sometimes helps to hear someone else's thoughts to develop your own theories too while presenting. Therefore, it makes sense to attend panels closely related to your research. At the same time, it is recommended to also listen to presentations that have nothing to do with your research, as they can be equally stimulating and worth watching.

I would recommend all postgraduate students that they attend conferences, apply for travel grants, and make the best of the experience.

## **Research conference management**

### **Fact Finding charts**

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<b>Objective</b>	<b>Technique</b>	<b>Subjects</b>	<b>Time commitment</b>
To get background on submitting research documents	Background readings	Applicant reports	1 day
To get background on organizing the research conference at a venue	Background readings	Organizer reports, Participant reports, Visitors log	1 day
To find out how the core research conference process is conducted	Interview	Past candidate of conference	2 days
To establish accounting requirement for new system	Observations	Accountant Organizer	1 day
To establish what records, inventory and resources are kept	Interview Document sampling	Clerk	1 hour
To gain understanding of each department.	Questionnaire /Survey	One member of each department	1 hours * no. of department
To gain understanding of	Observations	Organizers	0.5 day

structure management system of research conference			
To determine role of staff and services	Observations	3 admin staff	0.5 day
To establish additional requirements for our system	Questionnaire /Survey	2 account manager 2 staff members	1 hours each

### **Requirements:**

#### **If user is researcher:-**

- User should be able to login to the portal
- User should be able to register himself on the conference website
- User should be able to submit abstract for applying to the conference
- User should be able to apply for the grants
- User should be able to see the results along with the suggestions by field experts to improve for the future submissions if needed
- User should be able to apply for the travel grants and accordingly see the results regarding the same
- User should be able to pay the fees easily through available payment gateways
- Accepted author should be able to see the suggestions and comments of the field reviewers and subject experts on their post submission of selected abstracts.
- Accepted applicants should be able to submit the final scientific document for the main floor presentation of the Research Conference



- Either user is a viewer of the main conference or the selected author, he should be allowed to book for accommodation, tickets and food services on the day(s) of the conference.
- After registration as a viewer, user should be allotted their seats and should be presented with entry tickets
- User should be able to do onspot registrations for being an audience and accommodating themselves throughout the conference if the seats and space are available.

If user is organizer then

- User should be able to login to the portal
- User should be able to register himself on the conference website by providing specific identification.
- User should be able to accept or reject the grants request.
- User should be able to see the results along with the suggestions by field experts.

### **User Categories:-**

There will be four types of users :-

Organizer (Admin)

Research Applicants

Visitors

Advisory committee

### **Privileges:-**

The admin privileges will be in the hands of the organizer and the University or College to update, insert or delete any applicant or any visitor as per the terms of use and policies.

**Assumptions:-**

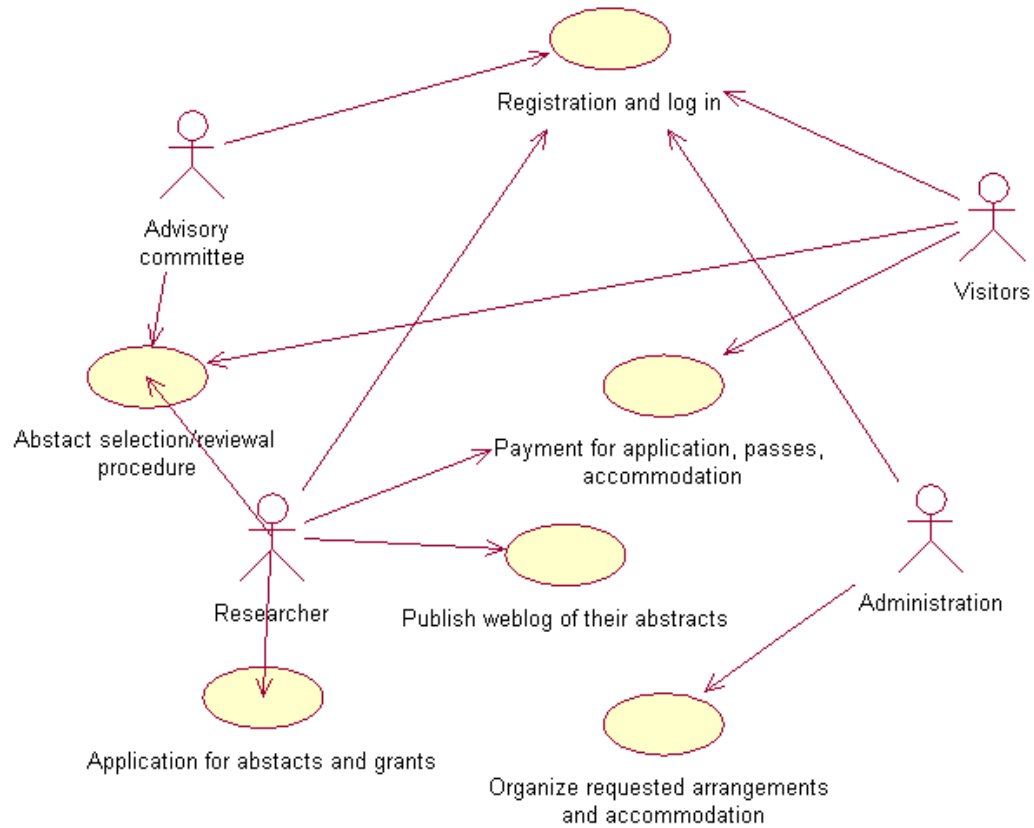
The organizing committee has every right to conduct such a conference and has appropriate permissions.

All the research applicants are above 18 years of age.

# Use Case Modeling version 1

## Group 3.2

Mohit Savaliya 201401137  
Dhaval Panjwani 201401162



<b>Use Case Name</b>	<b>Registration and Login</b>
<b>Actors</b>	<b>Researchers, Visitors, Advisory Staff</b>
<b>Description</b>	<p>This option will be the most primitive option given to the user at the start of the system. He will be asked to login to the system or register for the same. Accordingly, he will be gaining access to his account.</p>
<b>Post-Conditions</b>	<p>-The system should log the personal account and personal settings for that user account if he choses to log in to the account.</p> <p>-The system should register and setup the personal account and personal settings for that user account if he choses to register to the account.</p>
<b>Preconditions</b>	User should be willing to use the system and be available at the system page opened.
<b>Basic flow</b>	<p>A Researcher, Visitor or Advisory Staff arrives at system login page. If he already has an account in the system then he would go to login section and enter his ID and corresponding password. System checks for validity in their records. If combination found for the user then user will be sent OTP which he enters. If OTP is correct user is allowed access. Or else if he doesn't has an account he will go to register section and fill in the details correctly. After checking all the constraints entered, the system verifies. If details are appropriate, user account will be created.</p>
<b>Alternate Flow</b>	<ul style="list-style-type: none"> <li>- If user comes to the system initiated page and enters proper ID and password but enters a wrong OTP while logging in, then the page will be refreshed. And he has to enter the ID, password and OTP correctly on the login page to login. He will be given three tries to login or else his</li> </ul>

	<p>account will be locked.</p> <ul style="list-style-type: none"> <li>- User comes to the system initiated page and opts to register his account. If he enters improper details while registering his account like invalid Email ID, invalid use of characters for creating password,etc then the correct details will be stored and he will be prompted to enter the incorrect one's correctly. Only then a successful registration will happen.</li> </ul>
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<b>Use Case Name</b>	<b>Application for abstracts and grants</b>
<b>Actors</b>	<b>Researchers</b>
<b>Description</b>	The researchers who wants to submit their abstracts through this option also who are in real need of financial aid from the organizer for transport, they can apply for grants to get evaluated.
<b>Post-Conditions</b>	User should login in their account. And fill all the details about abstracts/grants. The user details for applying for travel grants should be updated in the database. Also his submitted proof of family income statement should be recorded in the database.
<b>Preconditions</b>	The researcher must be living far in a different country than the host country to apply for travel grants. And he should have been a user with accepted abstracts.
<b>Basic flow</b>	The user will come and login/register to the system. If he is a researcher and is willing to participate in the upcoming conference, he will choose the option to apply for the conference. He will be asked to select the field he wills to apply to. Then he will be given a deadline to submit abstracts of his research work for further processing. If the user abstract is already selected, he will get an option to apply for grants for which he

	would have to provide his family income documents. If application for grants/abstracts is proper, the request will be further recorded for consideration.
<b>Alternate Flow</b>	<ul style="list-style-type: none"> <li>- If the submitted abstract by the user is read by the people on the system and gets reviews and suggestions, then the researcher can login into the system and can view his submitted abstract. He can accordingly make appropriate modifications or refinements to the abstract and can re-submit it before the deadline.</li> <li>- If the researcher has submitted the inappropriate or wrong documents required regarding applying for grants which he comes to know later. Then he can log on to the system and accordingly change and upload the new correct documents before the deadline for the registration passes out.</li> </ul>

<b>Use Case Name</b>	<b>Abstract selection/reviewal procedure</b>
<b>Actors</b>	<b>Advisory Committee, visitors, researcher</b>
<b>Description</b>	Advisory Committee checks the abstracts according to the subjects and selects the best ones. They will also check the plagiarism. Advisory Committee, visitors and researcher can also do comments on various abstracts.
<b>Post-Conditions</b>	The advisory committee should save and upload the list of the selected authors to the system. The comments should be recorded and shown up to the concerned subjects for viewing.

<b>Preconditions</b>	<p>The user should be a verified user and should be logged in to the system.</p> <p>The abstracts should have been submitted by the researchers to the system to be evaluated before the deadline.</p>
<b>Basic flow</b>	<p>Advisory committee would log on to the system. They would be able to see all the abstracts submitted by the researchers to the system. System would allow to advisory committee to check the abstract submitted by researcher. Advisory committee would be able to review and comment suggestions. Later they will select applicants which after this process system will also update the selection list of candidates. System would allow to advisory Committee, visitors and researcher to leave comment on any abstracts with their userID.</p>
<b>Alternate Flow</b>	<ul style="list-style-type: none"> <li>- Log in with another userID than advisory committee userID for taking part in selection process.</li> <li>- Log in with invalid userID.</li> <li>- Comment letters are more than pre decided letters.</li> </ul> <p>Then system won't give this ID permission to access the documents and will prompt indicating to login from advisory committee ID.</p> <p>For comments or suggestions in comments, system will prompt to log in to the account and will not allow extra long buffers to be posted as comments. Users have to obey that to avoid spamming on the system.</p>

<b>Use Case Name</b>	<b>Organize arrangements and accommodations.</b>
<b>Actors</b>	<b>Administrator</b>
<b>Description</b>	<b>Administrator will be organizing on spot</b>

	arrangements, accommodations and the food services for the visitors and research applicants and show in the system through this option.
<b>Post-Conditions</b>	The administrator will arrange for things only if it is available. So first come, first serve users will get the arrangements better.
<b>Pre-Conditions</b>	The administrator should have the details of the users who want accommodation and food services for respective number of days
<b>Basic flow</b>	A Researcher, Visitor, Advisory Staff, Administrator staff arrives at system login page and login in their account and then if the userID is valid of administration staff then system will allow them to edit the other users accommodation and arrangements details. If the userID is other than administration staff, then system will only show them the allocated accommodation and arrangements details.
<b>Alternate Flow</b>	<ul style="list-style-type: none"> <li>- Log in with invalid userID.</li> <li>- System has not updated the details of event or haven't released the type of services then user will be notified to wait and check back again till the arrangements are been made.</li> </ul>

<b>Use Case Name</b>	<b>Payment for application, passes, accommodation</b>
<b>Actors</b>	<b>Visitor, Researcher</b>
<b>Description</b>	Visitor and Researcher will make their payment after their registration process will once be done for application, passes, accommodation etc. A single day pass includes the cost of Conference entry and



	the two meals a day. Registration to conference would include the food and accommodation fees for the applicant.
<b>Post-Conditions</b>	The user should then be able to avail the facilities he paid for. Those records and log details regarding the payment should be saved in the database for the user.
<b>Preconditions</b>	User must should have that much amount in their bank accounts and user should provide his identification details and contact number.
<b>Basic flow</b>	User should register or login to the account. If he is a researcher and is applying as participant in the conference, he will pay the registration fees. System will allow to users to make their payment after registration is done once. Similarly visitor will log in to the system and he will pay for the passes and accommodation according to his needs. He will get the pass entry and will eave.
<b>Alternate Flow</b>	-If after entering number of tickets user won't have enough money in his bank to buy that much tickets he will be taken to re enter the number of ticket to buy and again make payment process will be conducted.

<b>Use Case Name</b>	<b>Publish weblog of their abstract</b>
<b>Actors</b>	<b>Researchers</b>
<b>Description</b>	<b>Researcher can publish their weblog of</b>

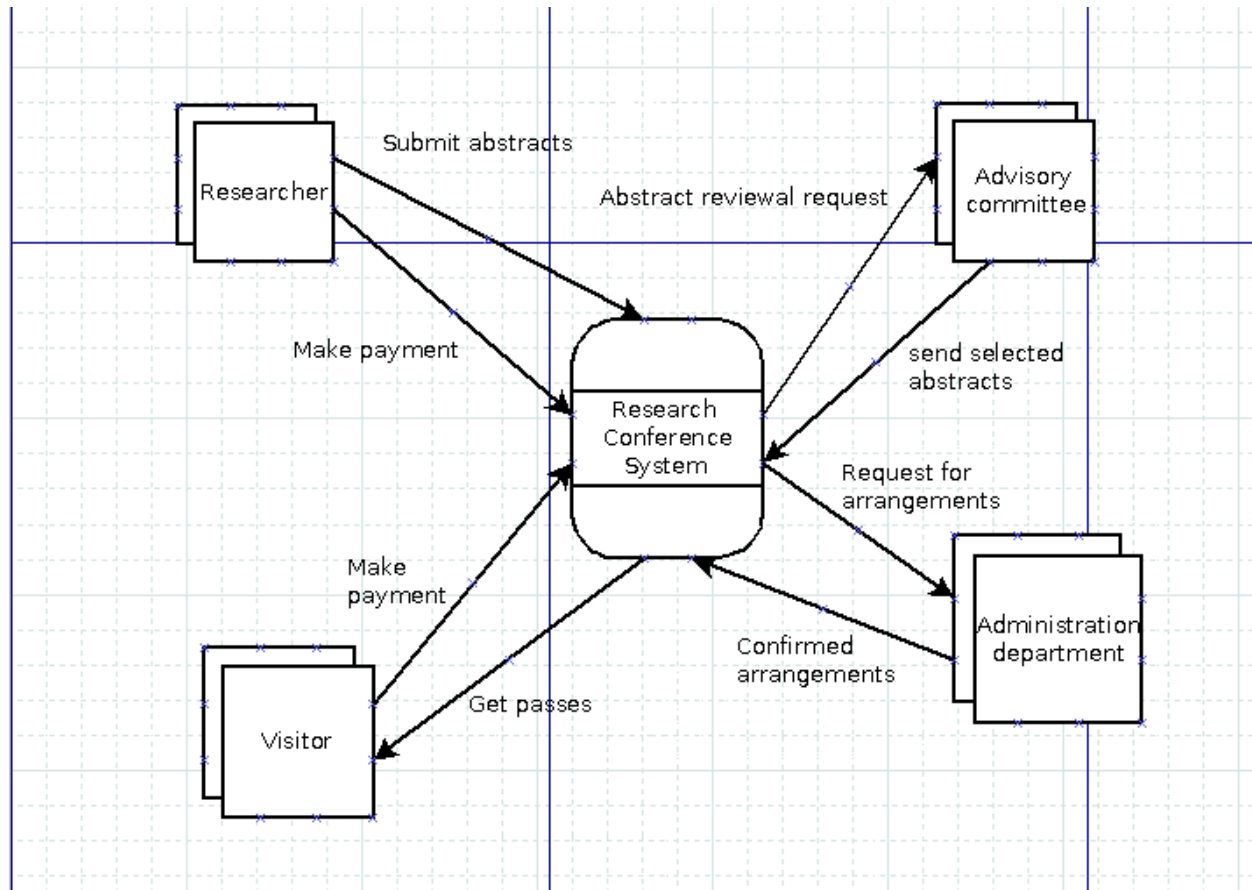
	their abstract by this option.
<b>Post-Conditions</b>	The web-blog posted must be able to be seen to each and every person visiting the web-blog. It should be public but only registered users to the system should be able to post comments to the posted blog.
<b>Preconditions</b>	The user of the system must be a researcher to be allowed to post to the system web-blog. Also user should have been applying this year in the research conference.
<b>Basic flow</b>	A Researcher arrives at system login page and login in their account. Researchers will get an option in their registered account to post a blog about their recent applied abstract. Although this would be optional. Researchers opting to do so will be redirected to a text editor which will take the blog as an input and check appropriate constraints and will finally be posted.
<b>Alternate Flow</b>	- If user types out the web-blog of more than pre-specified size of characters. ( he/she will be notified to reduce the blog size and keep it within the limit. When it comes in the limit, the post button will again start working to post the abstract.)

# Data Flow Diagram

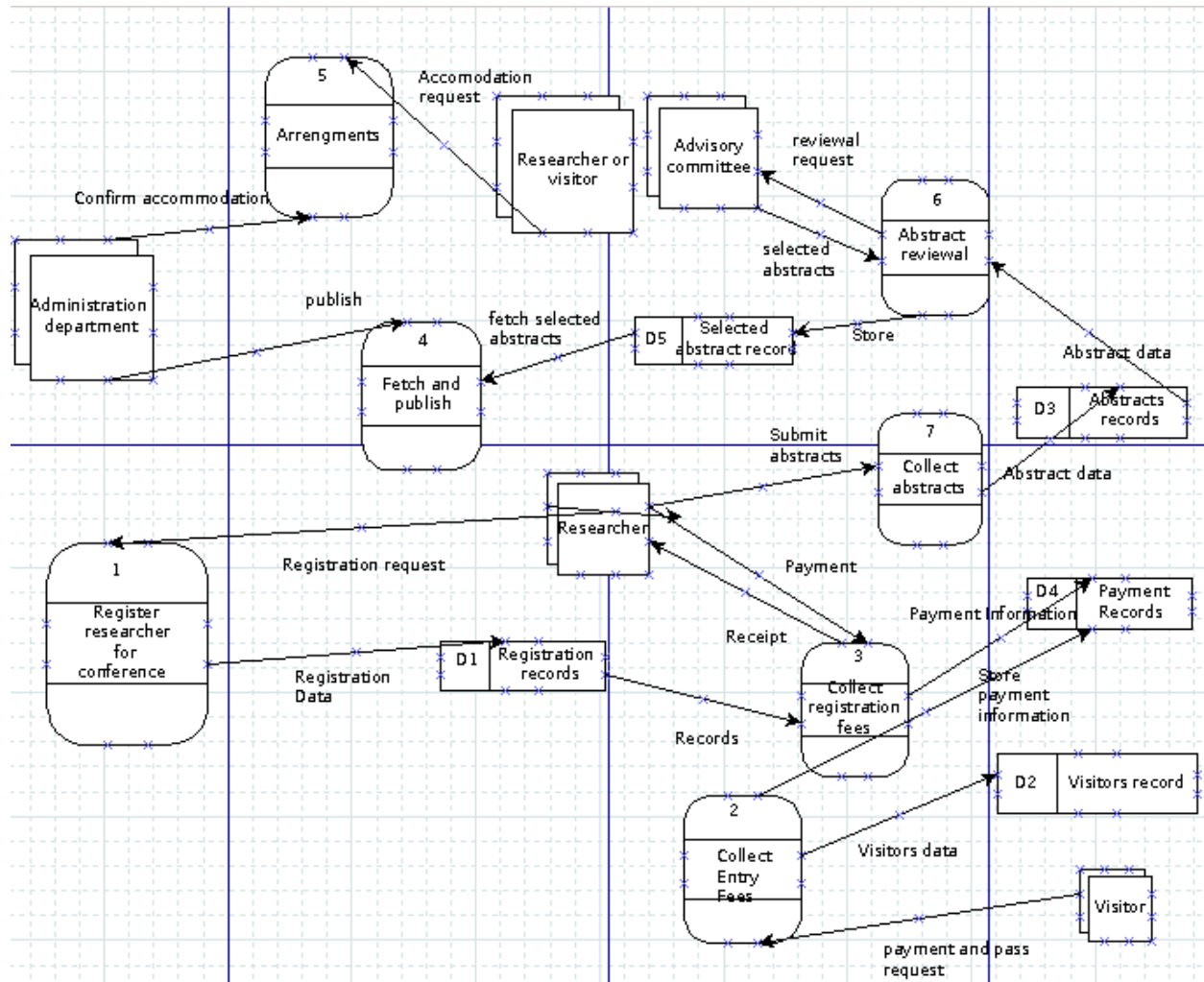
## Group 3.2

Mohit Savaliya 201401137  
Dhaval Panjwani 201401162

### Context level diagram



### Level 0 diagram



Entities - Researcher, visitors, Administration department, advisory committee

Process - Register researcher for conference

Entities - Researcher

Basic Flow - The researchers come to register them self by filling the pre-requirements. If there will be any vacancies for conference applications then he/she will be enrolled. System will store their details in registration records.

Process - Collect Entry Fees

Entities - Visitors

Basic Flow - Visitors would login to the system and request for passes of the conference.

System will show them the money to be paid accordingly. If pass request is feasible, system will validate payment by the customer and update payment and visitor records.

Process - Collect registration fees

Entities - Researcher

Basic Flow - If the user request for enrollment in registration to conference gets validated, system will ask user to pay the registration fees. System will show them the money to be paid accordingly. If money is paid, registration will be successful and transaction will be recorded in payment records. Also fees paid by the user will be updated in the registration records.

Process - Arrangements

Entities -Administration department, Researcher, Visitors

Basic Flow - Researchers or visitors will request for accommodation to administration department. Admin department will check availability for rooms and if arrangements are possible then return conformation to them and redirect them to payment.

Process - Fetch and publish

Entities - Administration department, Researcher

Basic Flow -After getting selected abstracts from advisory committee, administration staff will publish them as weblogs.

Process - Collect abstracts

Entities - Researcher

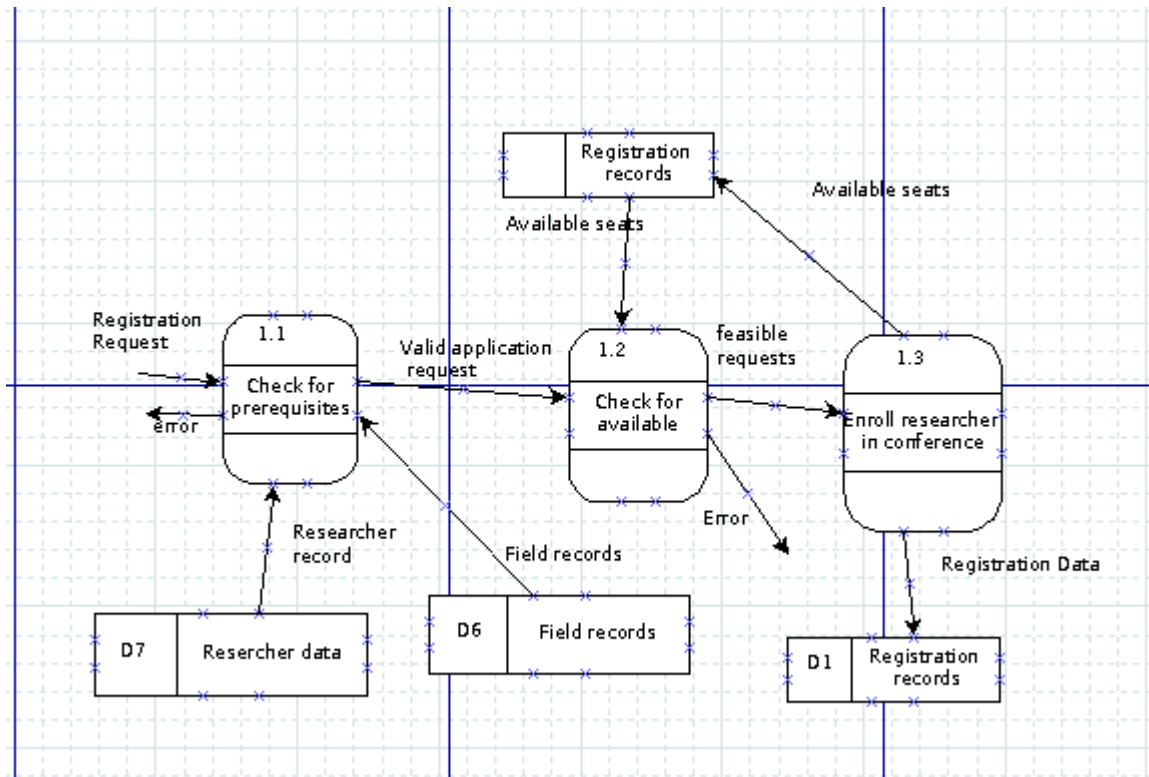
Basic Flow - After registration, Researchers will have to submit their abstracts. System will update the abstracts record after getting every new entry for valid abstracts.

Process - Abstract reviewal

Entities - Advisory committee

Basic Flow - Once the submission deadline will be over, system will request advisory committee to check abstracts. Advisory committee will return the selected abstracts and their researcher name.

## Level 1 Diagram For Process 1(Register researcher for conference)

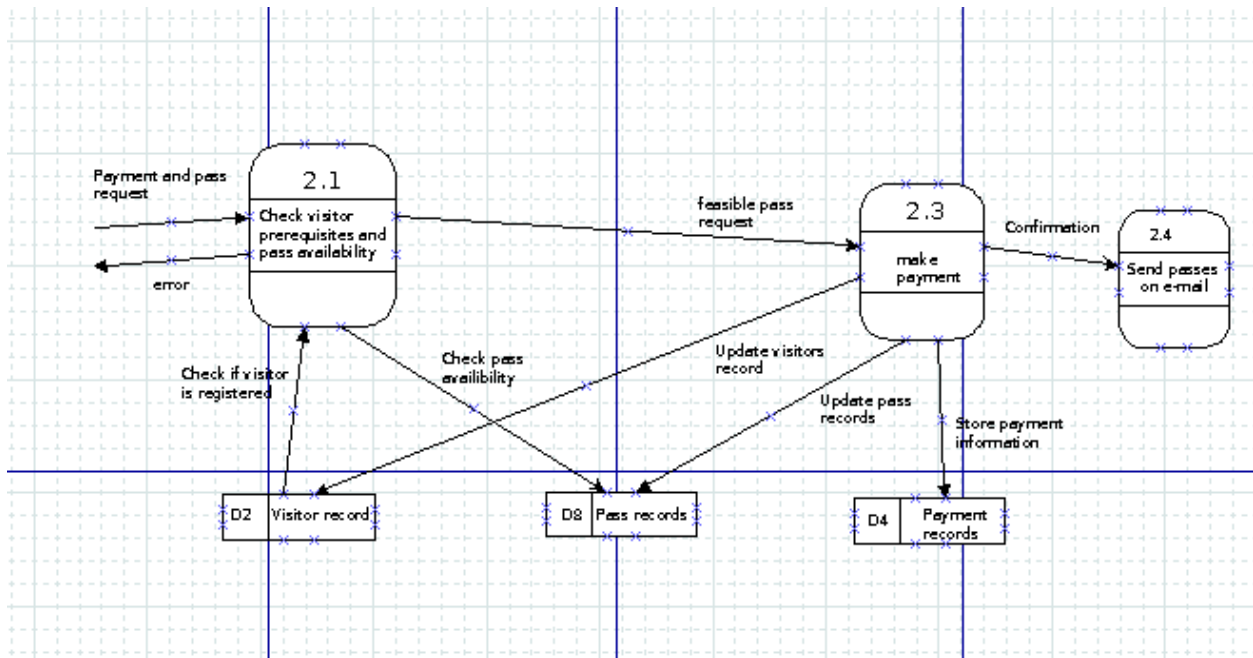


### Entities - Researcher

Process Flow - The researcher comes to the system and sends a registration request to the system. The system checks the user prerequisites, that is he logged in to the system and he has not already existing in the researcher data. Also system will check if the user is applying in fields which the research conference serves or allows. If all prerequisites are met, system would check the availability of the seats of registration in conference by checking number of entries till now in registration records. If seat is available, user will be enrolled into system and his data would be stored in registration records.

Alternate - If anytime above, a condition fails to meet the perspective of the organizer, it will give an error and again the process will begin.

## Level 1 diagram for Process 2(Collect entry fees)

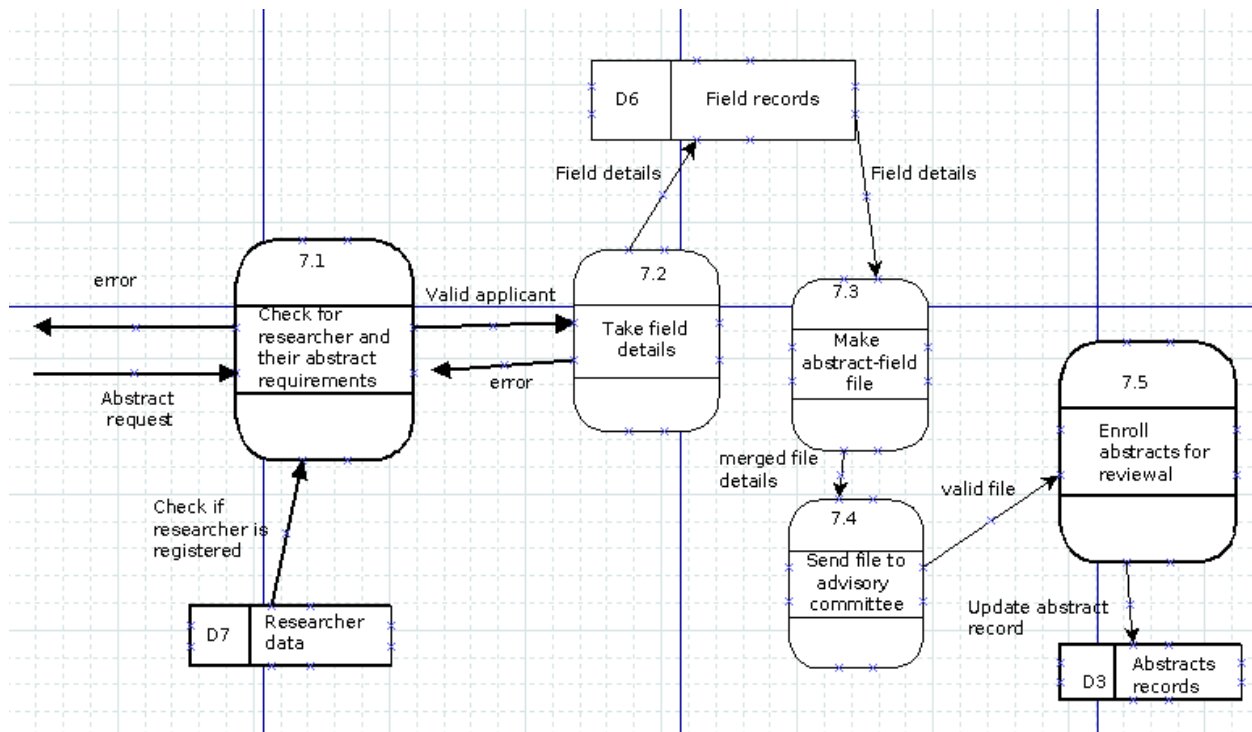


### Entities - Visitors

**Process Flow** - The visitor comes to the system and sends a pass buying request to the system. The system checks the user prerequisites, that he is a valid user of the system. Further if he is a valid user, system will take the pass request and will check the number of passes available in the pass records. If available passes are greater than passes required by the user, system will ask user to make payment accordingly. After successful payment from the user side, system will update the number of passes this visitor bought for this conference in visitor records. System will store payment information of this transaction in payment records. And at the end, system will reduce the available passes by deducting the newly bought passes in this transaction and store it in pass records and visitor will be mailed with an electronic copy of passes.

**Alternate** - If anytime above, a condition fails to meet the perspective of the organizer, it will give an error and again the process will begin. Even while payment, some erroneous stage occurs, the whole transaction will be restarted to avoid any errors or misunderstandings to happen.

## Level 1 diagram for Process 7(Collect abstracts)



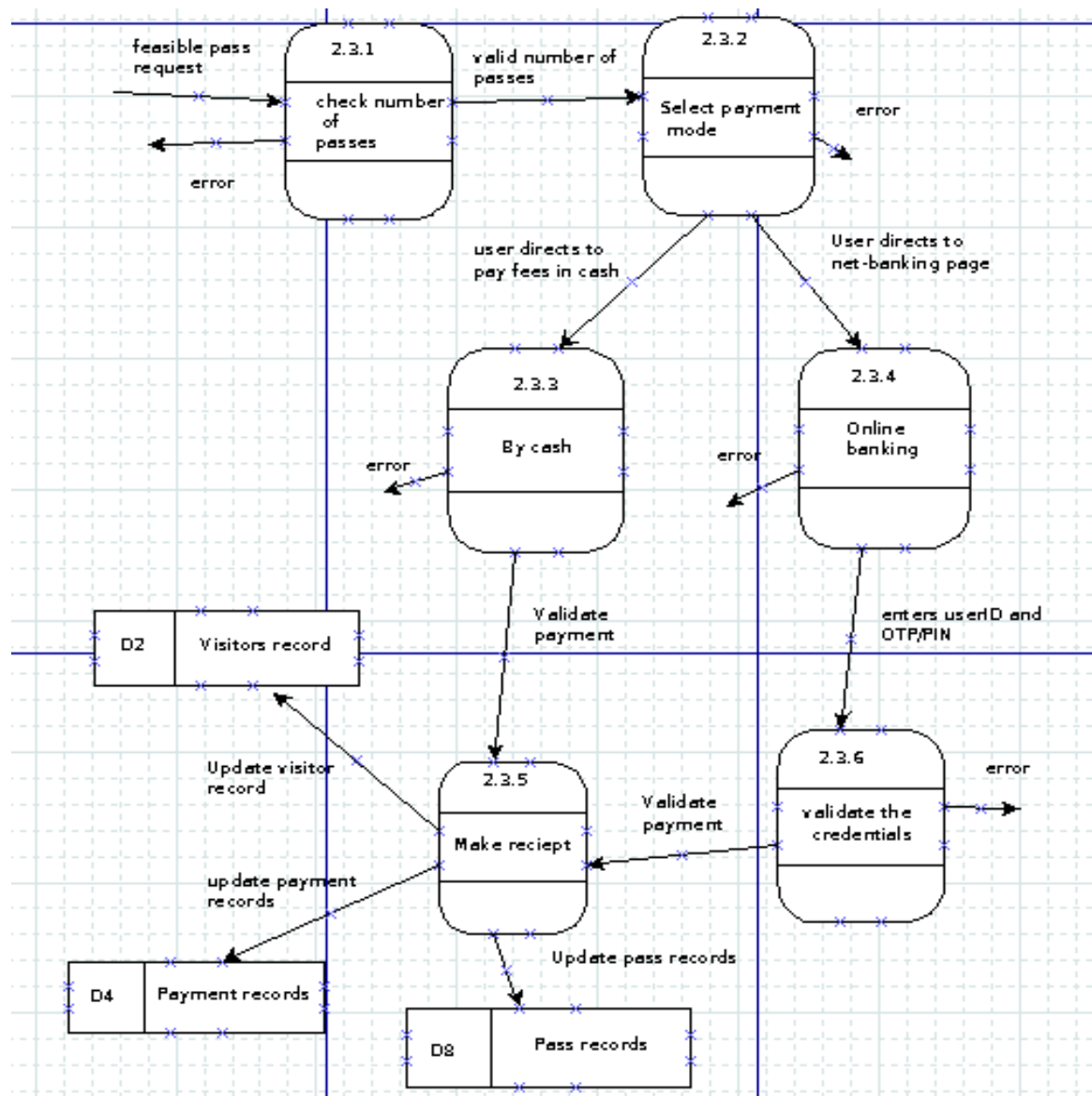
## Entities - Researcher

**Process Flow** - The researcher comes to the system and sends a request to the system for submitting abstracts. The system checks for researcher availability, that is the system would check if the researcher is registered to the system with his credentials and check his availability in researcher data. If he is a valid research applicant, the submitted abstract should be checked. If the abstract is of appropriate size, etc the system would check which field the abstract had been submitted in. Then system takes the field in which researcher wants to participate in the conference for this abstract. System will make a field-abstract file for the researcher and will send this file to advisory committee. Advisory committee will validate and enroll abstract for reviewal. Accordingly abstract records will be saved.

**Alternate** - If anytime above, a condition fails to meet the perspective of the organizer, it will give an error and again the process will begin. While errors in abstract prerequisites, the applicant will be notified to rectify them.



## Level 2 for process number 2.3(Make payment)



### Entities - Visitors

Process Flow - If visitor sends in the feasible pass request, the system will first check if the payee is not asking for passes over the limit fixed for a single user. If he hasn't exceeded the limit, he would be asked to select the payment mode. If he selects to pay by cash, respective amount will be taken from him by cash and payment would be validated. He will be given a

receipt/bill for the same. If he selects to pay online instead, he would be asked to enter his user ID and card number in a secure system page of respective. On entering a valid card number, he would receive an OTP. Validating the OTP would be like validating payment and the payment would be done. He would be given a receipt/bill for the payment. And system would store payment information, pass records, and visitor records for this transaction.

Alternate - If anytime above, a condition fails to meet the perspective of the organizer/system, it will give an error and again the process will begin from the start.

# CRC Cards

## Group Number-3.2

201401137- Mohit Savaliya  
201401162 - Dhaval Panjwani

Conference	
Responsibilities	Collaborators
Define name of the conference	Organizing Committee
Set the sessions (regular/sessions)	Sessions / Organizing Committee
Set the session speaker	Session/Speakers
Set the session judges	Session, Advisory Committee (Conference Experts)

Organizing Committee	
Responsibilities	Collaborators
Assign the venue and time of the conference	Conference
Set the schedule and timeline of the conference	Conference
Set up rooms for accommodation requests	Accommodation
Shortlist and pay travel grant awardees	Researcher
Select food caterers and handle food services	Food Services
Use the floor space appropriately	
Handle local Vendors	

Researcher	
Responsibilities	Collaborators

Enroll in a conference	Conference
Request for accommodation	Organizing Committee
Submit an abstract	
Modify the submitted Abstract	
Apply for grants	Organizing Committee

<b>Visitors</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Get accommodation and food services	Organizing Committee
Enroll in a conference for visit	Organizing Committee
Get Passes and pay fees	Organizing Committee

<b>Advisory Committee</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Check and review abstracts	Researcher
Select from applicants	Researcher
Send Reviewed abstracts to publication board	Publication Board

<b>Accommodation(block wise) and Food</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Allocate room	Organizing Committee
Select from applicants	Researcher/Visitor
Update current allottees	Organizing Committee
Update Catering company (datewise)	Organizing Committee
Update maximum Plates to be cooked (datewise)	Organizing Committee

<b>Publications Board</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Check uniqueness of abstracts	Advisory Committee, Researcher

Publish final abstracts	Researcher, Advisory Committee
-------------------------	--------------------------------

<b>Speakers (session wise)</b>	
<b>Responsibilities</b>	<b>Collaborators</b>
Knows sessions	Conference
Update sessions to host	Conference

Research conference management  
Group 3.2

201401137- Mohit Savaliya  
201401162-Dhaval Panjwani

**Table Initial Nouns:-**

Initial nouns	Reason
professors	No (vague)
Advisory committee	Yes (accepted) Essential user of system
researcher	Yes (accepted) Essential user of system
Conference	Yes (accepted) for updating Schedule, Name, Number of Days, Venue, Time accordingly as decided with the organizer
script	No (tautology)
publisher	Yes (accepted) required for publishing abstracts
manuscript	No (vague)
abstracts	Yes (accepted) required for applying in the conference.
faculty member	No (vague)
participants	No (tautology)
organizing committee	No (tautology)
courier	No (irrelevant)
articles	No (tautology)
authors	No (vague)
Poster sessions	Yes (accepted) Primary part of the conference
University Name	Yes (accepted) An attribute to define the organizing university of the conference
student	No (vague)
Research projects	Yes (accepted) Primary part of system for the researcher
faculty	No (vague)
reference letter	No (irrelevant)
document	No (irrelevant)
final scientific document	Yes (accepted) Final document submitted by the researcher after he/she gets selected
Travel Grant support	Yes (accepted) Travel grants are

	essential help provided by the organizing university for the far away researchers
Applicants	No (vague)
accommodation	Yes (accepted) required for accommodating the visitors and researchers
penalty charges	No (irrelevant)
Late registrations	No (vague)
suggestions	Yes (accepted) needed as a part of procedure for evaluating and improving abstracts
secondary experts	Yes (accepted) Essential sub-user of system
primary experts	Yes (accepted) Essential sub-user of system
Core reviewers	Yes (accepted) Essential sub-user of system
attendees	No (tautology)
Visitors	Yes (accepted) Essential attendees of the research conference
food services	Yes (accepted) Essential department of system to provide proper food services to the users
registration committee	Yes (accepted) to handle the registration process(subclass)
exhibits committee	Yes (accepted) to handle the venue management(subclass)
local arrangement committee	Yes (accepted) to handle the local arrangements(subclass)
online portal management and e-mail checking committee	No (vague)
Grant awarding committee,	Yes (accepted) to handle the Travel Grant Support section
Reward prize	Yes (Accepted) attribute to hand away the decided prize money to the top applicants
reviewers committee	No (tautology)
final approval committee	Yes (accepted) to handle the final approval of top applicants
credit/debit card	No (irrelevant)
Primary reviewers	No (tautology)
application	No (tautology)
Event Speakers	Yes (accepted) essential user of the sessions

Subject Experts	No (tautology)
paper	No (tautology)
Publications Board	Yes (accepted) to publish, analyze and check abstracts
Registration form	No (tautology)
research papers	No (tautology)
conference management unit	Yes (accepted) to manage the conference
venue	Yes (accepted) Attribute defining place
Conference dates	Yes (accepted) attribute defining dates

### Table Noun Analysis:-

Potential Classes	Attribute List
Advisory Committee	Conference venue
Researcher	Conference dates
Conference Sessions	Schedule (time-line)
Speakers (session wise)	University Name
Publisher	Abstracts
Research Projects	Final scientific document
Poster presentation sessions	Reward Prize
Regular sessions	Registration Fees
Travel grant applicants	Suggestions
Accommodation (block wise)	Travel Grant Award
Secondary experts	
Primary experts	
Core reviewers	
Visitors	
Food Services (day wise)	
Conference management unit	
Registration committee	
Exhibits committee	
Local arrangement committee	
Grant awarding committee	



Final approval committee	
Publications Board	

### List Final Classes:-

Final Classes	Attributes	Methods
Conference	Schedule, Name, Number of Days, Venue, Time, Organizer name, Sessions (Regular and Poster), Speakers and Judges for the sessions, Fields of Conference	update_name(), update_Schedule(), update_individual_Dates(), update_host_venue() update_organizer()
Researcher	Name, Place, Age, Profession, University, Abstract, Final scientific Document , email-ID Apply for travel grant	get_accommodation(), get_Entry(), apply_for_grant(), pay_fees(), submit_abstract(); comment_on_abstract(); modify_abstracts(); Login/SignUp()
Advisory Committee	Committee member names, Member professions, Member Tasks, Expert_Level Member_Field	check_abstracts(); Review_abstracts(); comment_on_abstract(); select_from_stage_applicants() Send_to_publication_Board()
Organizing committee	Committee member names, Member professions, Member Tasks	handle_Contracts(), use_Floor_Space(), security_services(), handle_local_vendors(), management_companies() , room set-up(), shortlist_awardees(), give_financial_support() handle_food_services()
Accommodation (block wise)	Fees, Gender, Wing Catering Company, Catering dates , Fee per plate, Maximum plates to	update_current_allottees(); update_company(), update_plate_cost(), update_dates()

	be cooked	
Visitors	Name, Age, Place, Field of interest, Email ID,	get_passes() Pay_fees() get_Entry() get_accommodation() get_food_services()
Publications Board	Board members name, Age, Profession, Email ID	check_plagiarism(), check_uniqueness_of_abstracts(), publish_final_abstracts(),
Speakers (session wise)	Name, Age, Email ID, sessions to host	Update_sessions_to_host( )

# Data Dictionary

## Group Number-3.2

201401137- Mohit Savaliya  
201401162 - Dhaval Panjwani

**Conference** = Name + Organizer Name + (Number of Days) + Schedule + Venue + Time + Sessions + {Session Speaker} + {Session Judge} + {Field of Conference}

**Researcher** = {first name} + last name + address + phone number + Age + place + university + E-mail + {Abstract} + Final document + (Travel grant)  
Address = Street + place + city + state + country

**Advisory Committee** = Member name + Member Profession + Expert Level + Expert\_Field  
Expert\_Level = ["Primary experts" | "Secondary experts" | "Core Reviewers"]  
Expert\_Field = ["Human Computer Interaction" | "System Software" | "Machine Learning"]

**Organizing Committee** = Member name + Member Profession + Member Age + {Member task}

**Visitors** = {first name} + last name + {address} + phone number + Age + place + E-mail + {Conference\_name}  
Address = Street + place + city + state + country

**Accommodation and food services** = Name + Gender + Wing + room no. + {Catering company} + {catering dates} + {plate price}  
Gender = ["Male" | "Female"]  
Wing = ["A" | "B" | "C" | "D"]  
Room No = ["1" to (|) "30"]

**Publications Board** = Member name + member age + member E-mail ID + {Member task}

**Speakers** = Speaker name + Age + {Sessions of conference to host}

# Revised Class Model

## Group Number-3.2

201401137- Mohit Savaliya  
201401162 - Dhaval Panjwani



# Scenario Walkthrough

Grp: 3.2

Mohit Savaliya - 201401137  
Dhaval Panjwani - 201401162

Note: Missing things are shown with red color.

Use case : Abstract selection/reviewal procedure Scenario-1			
Steps	Classes	Attributes	Methods
Advisory committee would log on to the system. They would be able to see all the abstracts submitted by the researchers to the system.	1. Advisory committee 2. Researcher	abstracts	Log in(); check_abstracts();
And they will review all the submitted abstracts. They will check the uniqueness of the submitted abstracts through publication board.	1. Advisory committee 2. publication board	abstracts	review_abstracts(); send_to_publication_board(); check_uniqueness_of_abstract(); check_plagiarism();
Advisory committee and other visitors would be able to comment suggestions. Later they will select applicants which after this process system will also update the selection list of candidates.	1. Advisory committee 2. Visitors 3. Publication Board	abstracts	comment(); select_applicants(); publish_final_abstracts();

Use case : Abstract selection/reviewal procedure Scenario-2			
Steps	Classes	Attributes	Methods
If the advisory committee member does not want to check the abstracts now, he/she logs out.	1. Advisory committee	abstracts	Logout()

Use case : Abstract selection/reviewal procedure Scenario-3			
Steps	Classes	Attributes	Methods
Advisory committee would log on to the system. They would be able to see all the abstracts submitted by the researchers to the system.	1. Advisory committee	abstracts	Log in(); check_abstracts();

Then the member re-thinks his/her evaluation and wants to update the already submitted list of selected applicants. He updates the list and send updated list to the system again.	1. Advisory committee	selected_List	review_abstracts(); select_applicants(); Edit_current_selected_list()
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2

<b>Use case : Payment for application, passes, accommodation</b>			
<b>Scenario-1</b>			
Steps	Classes	Attributes	Methods
User should register or login to the account.	1. visitor 2. researcher		Register() Log_in()
If he is a researcher and is applying as participant in the conference, he will pay the application fees for the conference. (Fees for the conference include accommodation and mess)	1. Researcher 2. Accommodation and Food	application_cost	Pay_for_application(); get_accomodated() get_food_service() get_entry()

<b>Use case : Payment for application, passes, accommodation</b>			
<b>Scenario-2</b>			
Steps	Classes	Attributes	Methods
User should register or login to the account.	1. visitor 2. researcher		Register() Log_in()
If user is a visitor, he will pay for the passes and accommodation according to his needs. He will get the pass entry to conference and accommodation and will leave.	1. Visitor 2. Accommodation and Food	accommodate_price, plate_price	pay_for_passes() pay_for_food_and_accommochedation() get_accomodated() get_entry()

Use case : Payment for application, passes, accommodation			
Scenario-3			
Steps	Classes	Attributes	Methods
User should register or login to the account.	1. visitor 2. researcher		Register() Log_in()
Then the researcher applies for the research conference. He submits his abstracts but fails to pay the conference application fees.	1. researcher	abstracts	submit_abstract() pay_fees()
The advisory committee will consider this application a spam or consider that researcher is no more interested in conference and will not send this application abstract for any further reviewal.	1.researcher 2. Advisory committee	applicant_list	check_spam() check_abstracts()

Use case : Payment for application, passes, accommodation			
Scenario-4			
Steps	Classes	Attributes	Methods
User should register or login to the account.	1. Visitor 2. Researcher		Register() Log_in()
Then the visitor applies for the research conference entrance. He submits his requirements for accommodation and number of tickets needed. But fails to pay the conference entry, accommodation and food fees.	1. Visitors 2. Accommodation and Food	accommodate_price, plate_price	apply_for_entry() pay_fees()
The organizing committee will consider this application for entry pass a spam or consider that visitor is no more interested in conference and will not send this application abstract for any further procedure.	1. Organizing Committee 2. Visitors	visitor_list	check_spam()



<b>Use case : Application for abstracts and grants Scenario - 1</b>			
Steps	Classes	Attributes	Methods
The user will come and login/register to the system.	Researcher Visitor		Log in()
If he is a researcher and is willing to participate in the upcoming conference, he will choose the option to apply for the conference. He will be asked to select the field he wills to apply to.	Researcher	field	choose_field() Register()
Then he will be given a deadline to submit abstracts of his research work for further processing. If application for abstracts is proper, the request will be further recorded for consideration and sent to advisory committee	Researcher Advisory committee	abstracts	Modify_abstract() Submit_abstract()

<b>Use case : Application for abstracts and grants Scenario - 2</b>			
Steps	Classes	Attributes	Methods
The user will come and login to the system.	Researcher Visitor		Log_in()
The user has already submitted his abstract. So he could view his abstract and edit it before the final deadline. After editing, he could commit changes to reflect the	Researcher	Abstracts, field	View_abstract(); Modify_abstract() submit_abstract() Update_field()

update in the database. He could even edit the field of his application.			
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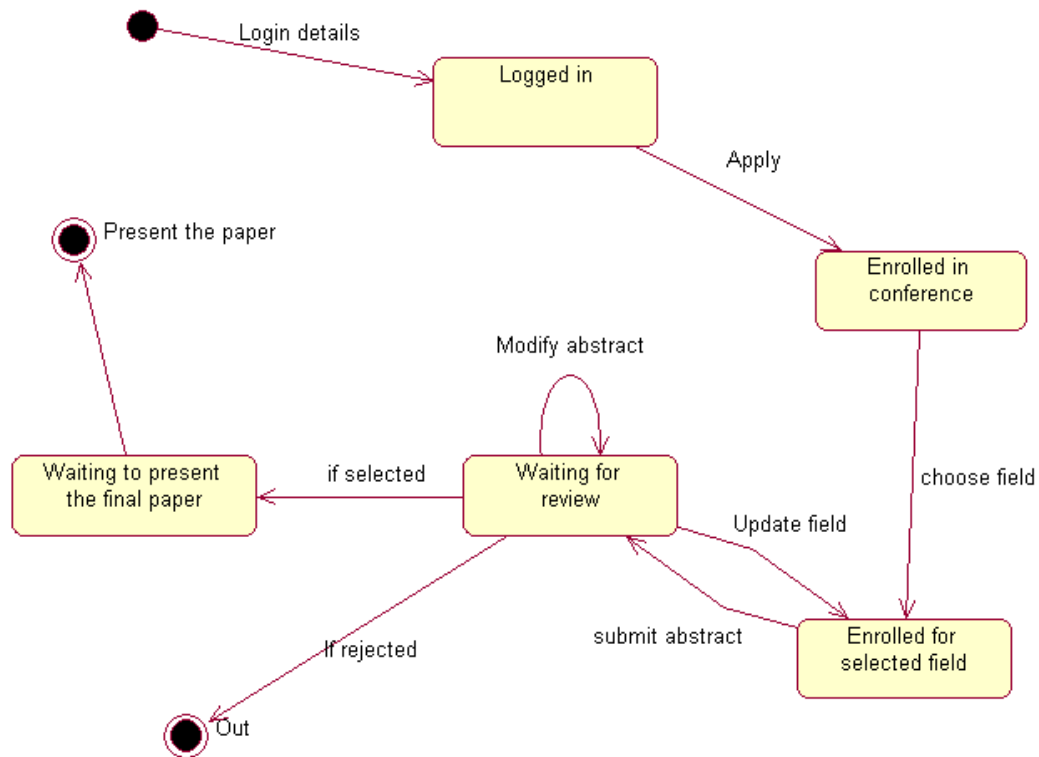
<b>Use case : Application for abstracts and grants Scenario - 3</b>			
Steps	Classes	Attributes	Methods
The user will come and login to the system.	Researcher Visitor		Log_in()
If user is a researcher and has already submitted the abstract, he could check the list of selected applicants of the conference whenever it is published.	Researcher	selected_List	Check_selected_applicants()
If he is in the selected list of applicants and wants to apply for the travel grants, he would do so.	Researcher		apply_for_grants();
For applying, he would further be asked for submitting some documents like family income certificate, etc for further processing. This will be recorded and will be sent to committee for reviewal of grant applicants.	Researcher		Submit_documents()

# State Diagrams

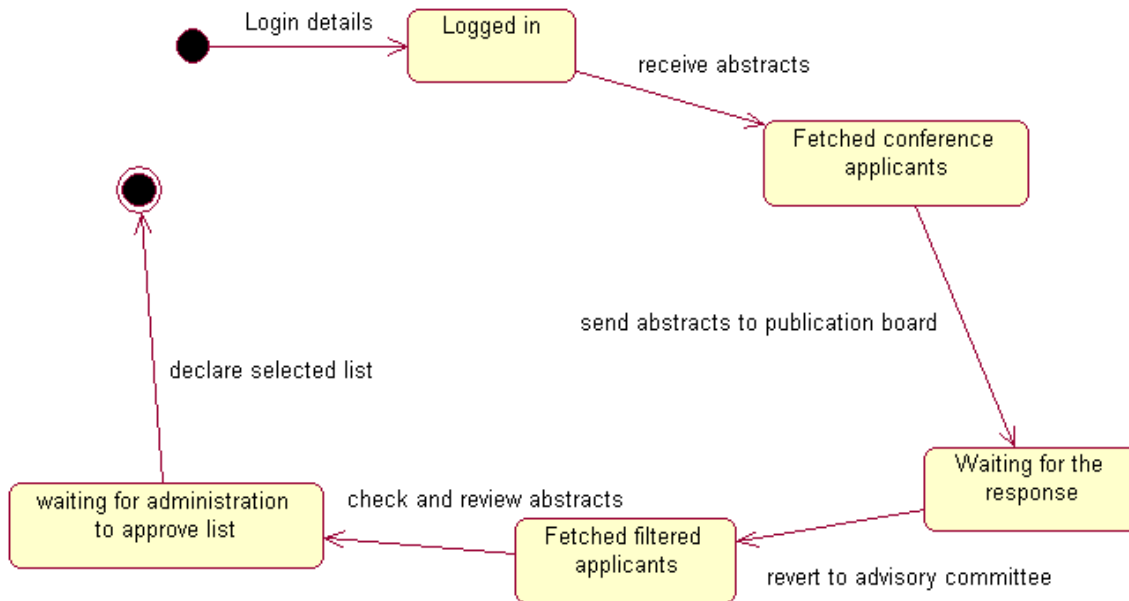
Grp: 3.2

Mohit Savaliya - 201401137  
Dhaval Panjwani - 201401162

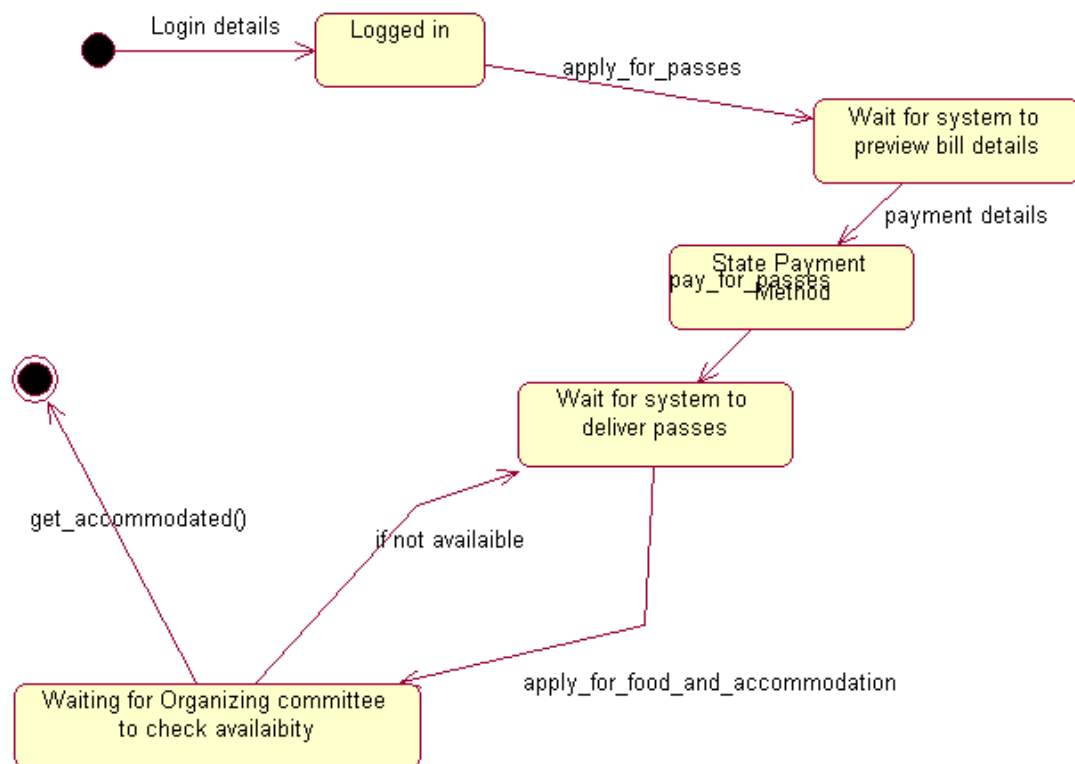
Researcher class:-



### Advisory committee class:-



### Visitor Class:



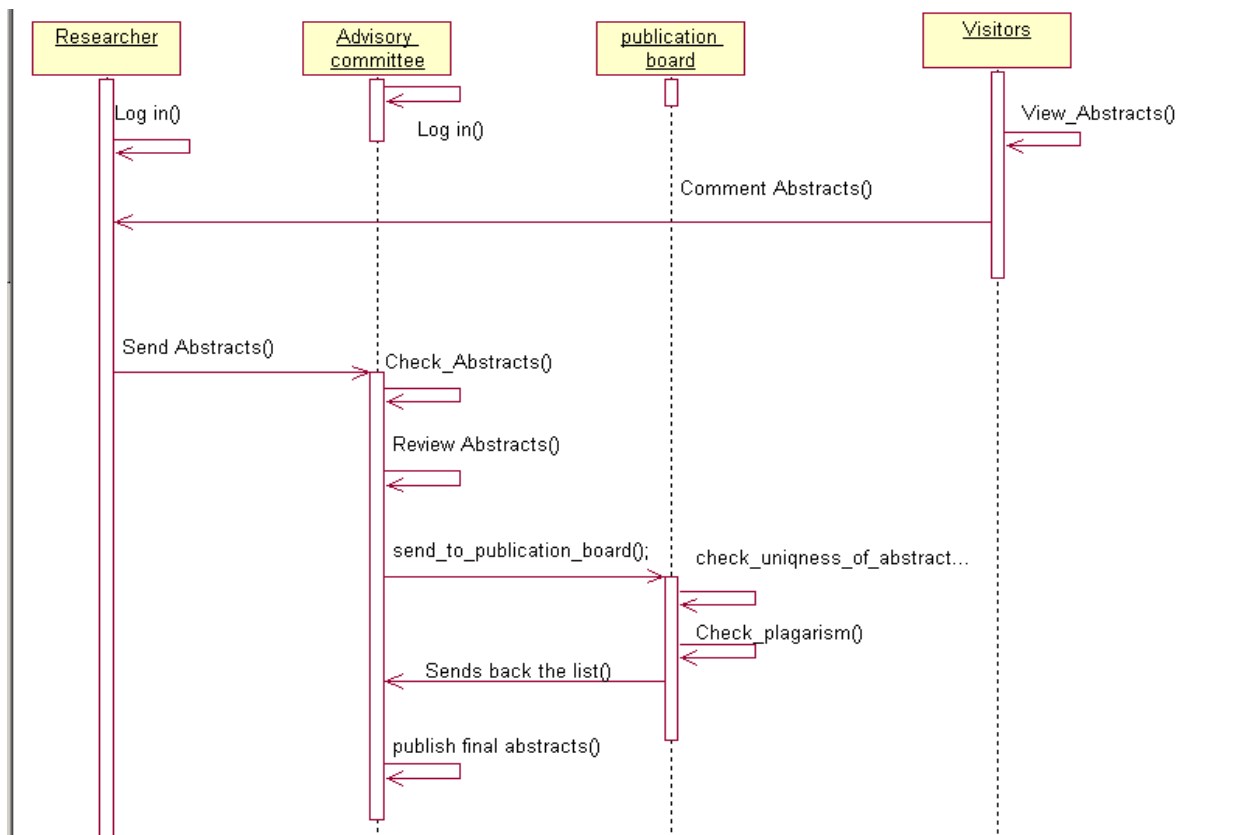
# Interaction Diagrams

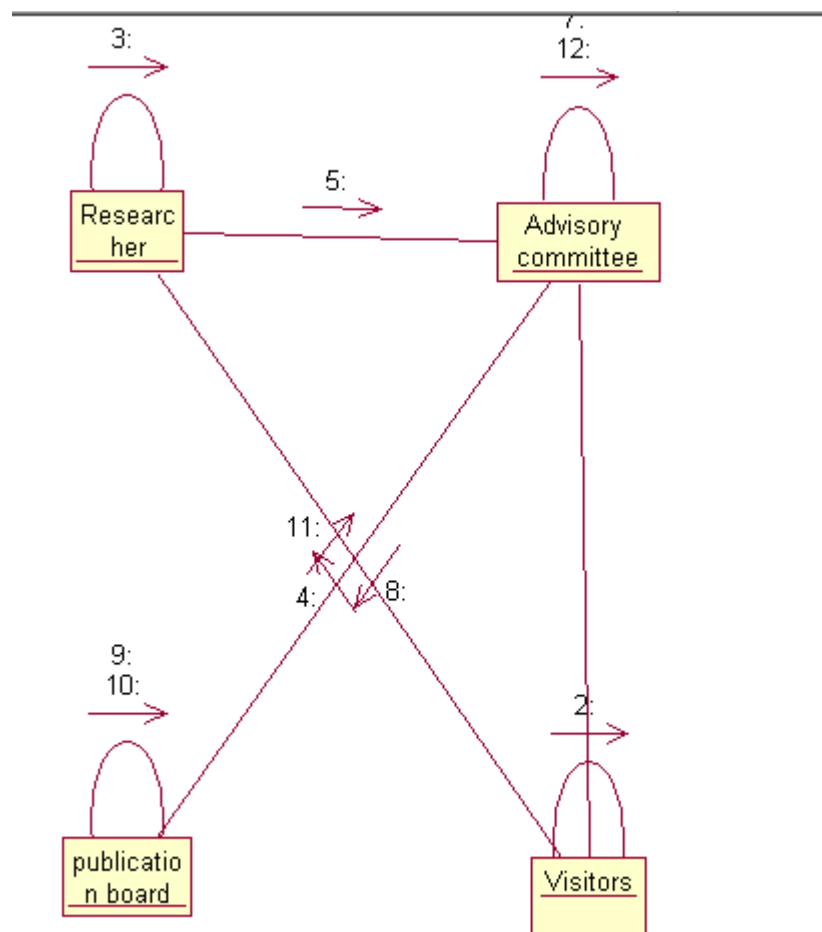
Grp: 3.2

Mohit Savaliya - 201401137  
Dhaval Panjwani - 201401162

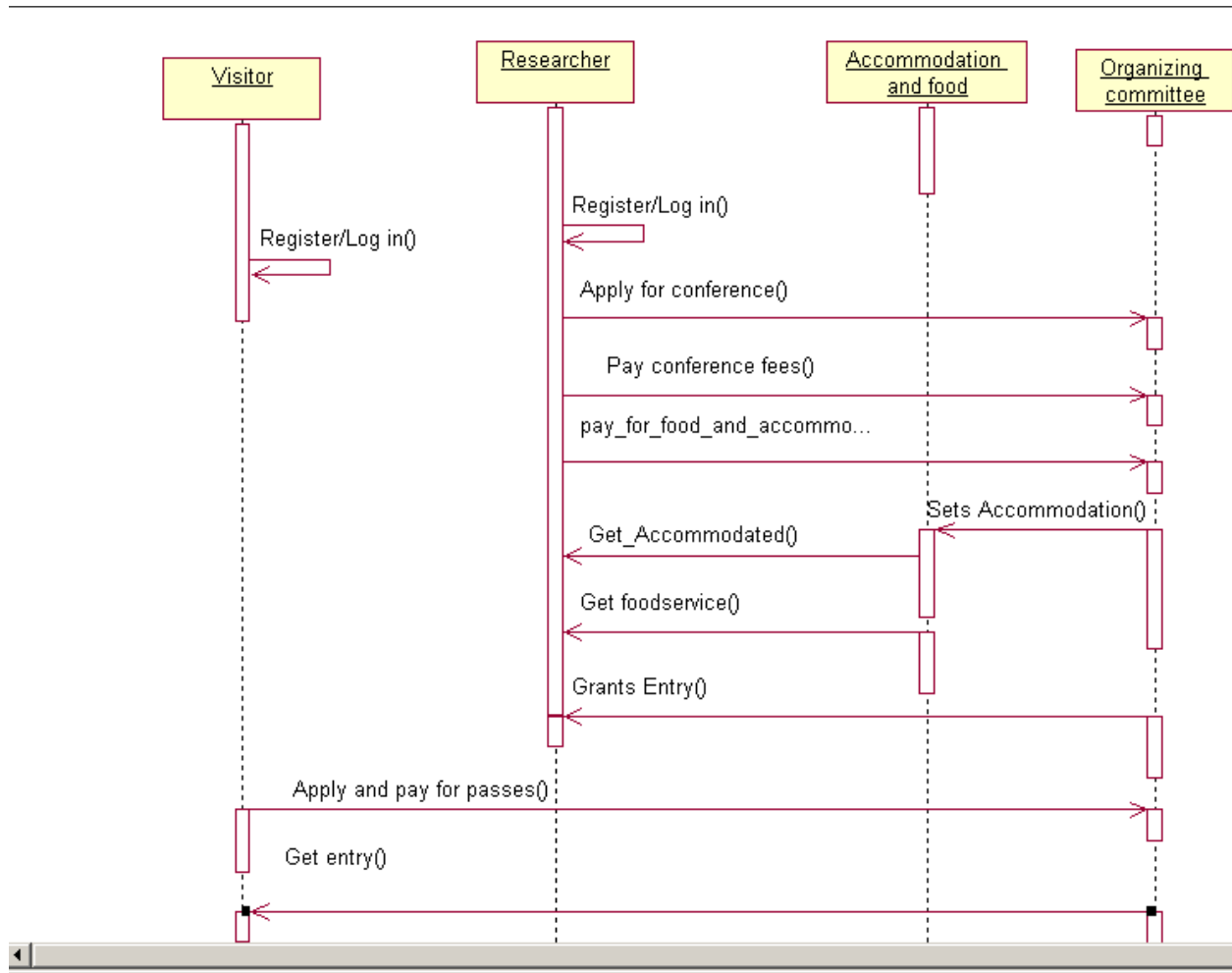
1st:- Sequence diagram  
2nd - collaboration diagram  
For each use case

Use case 1:- Abstract selection/reviewal procedure

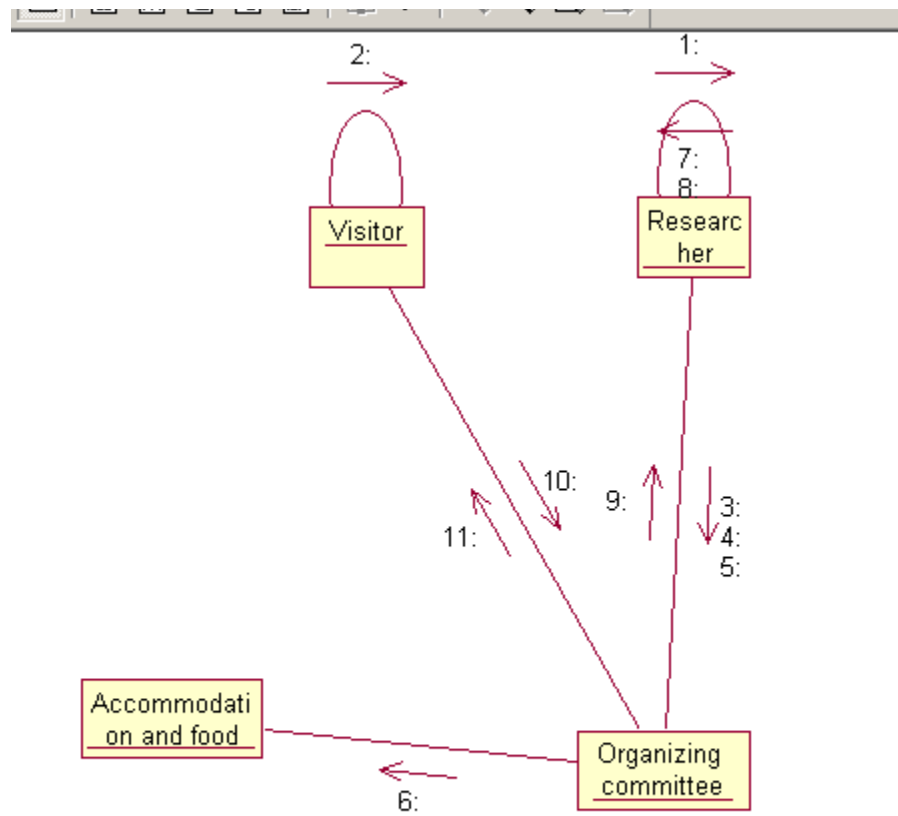




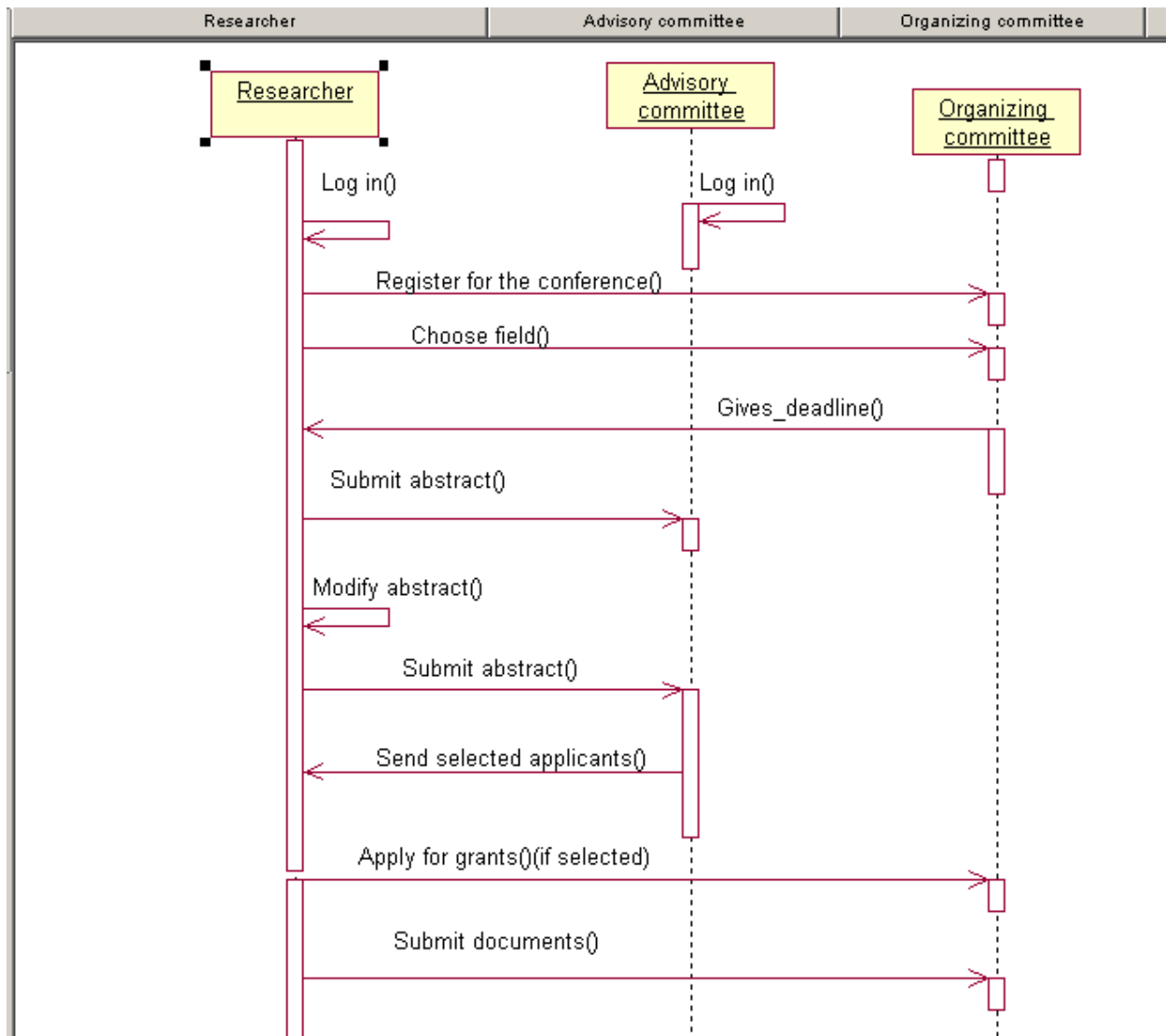
## Use case 2:- Payment for application, passes, accommodation

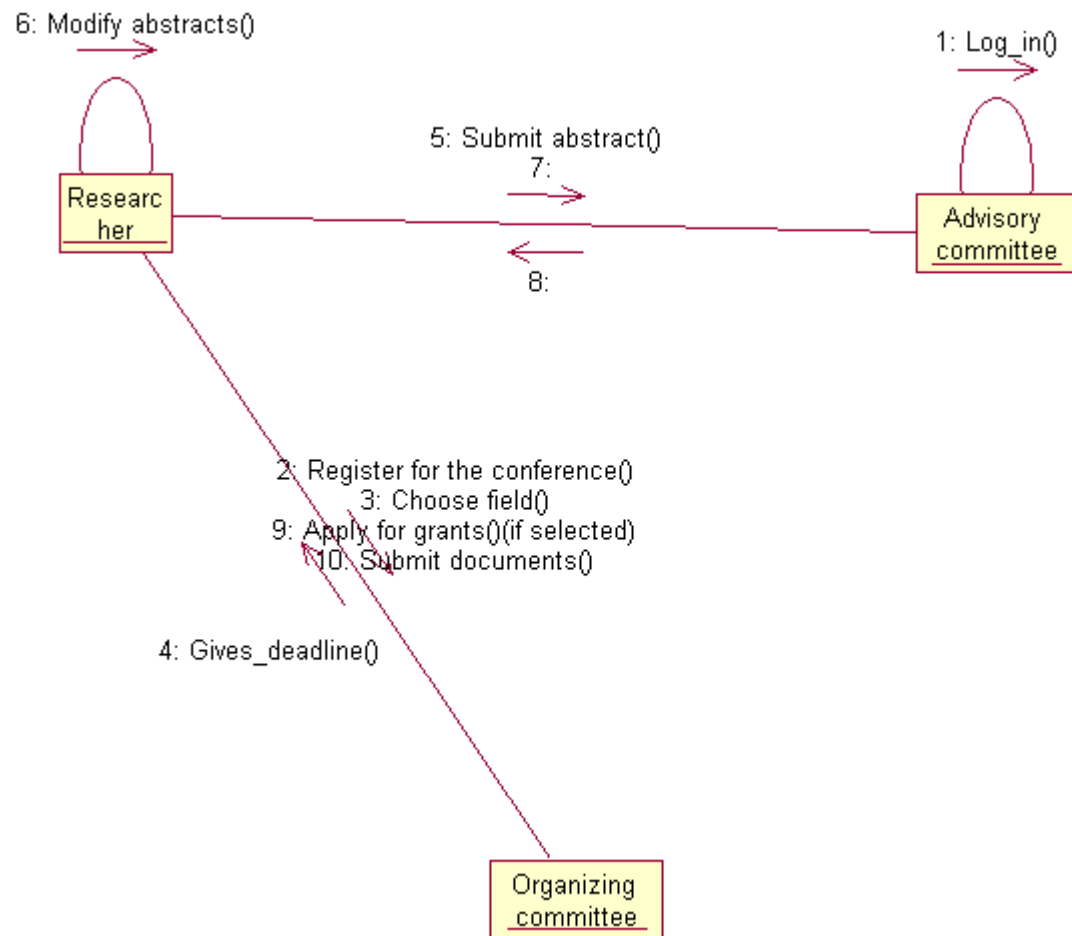






### Use case 3: Application for abstracts and grants





## Junit Testing

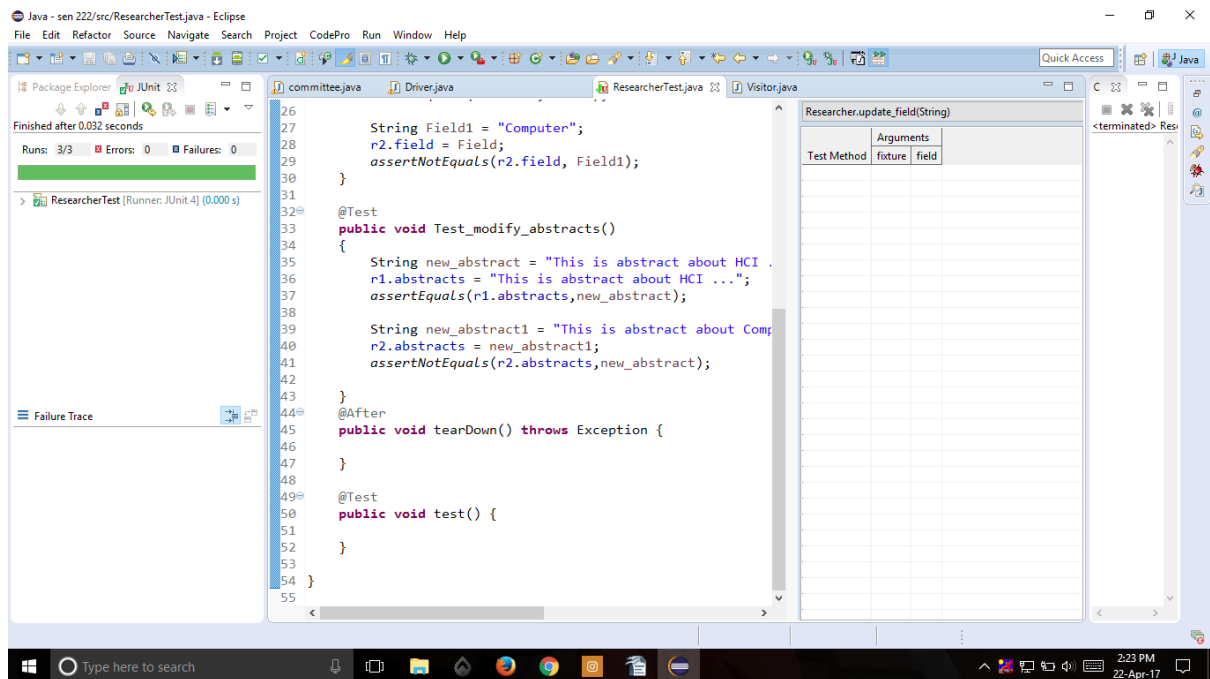
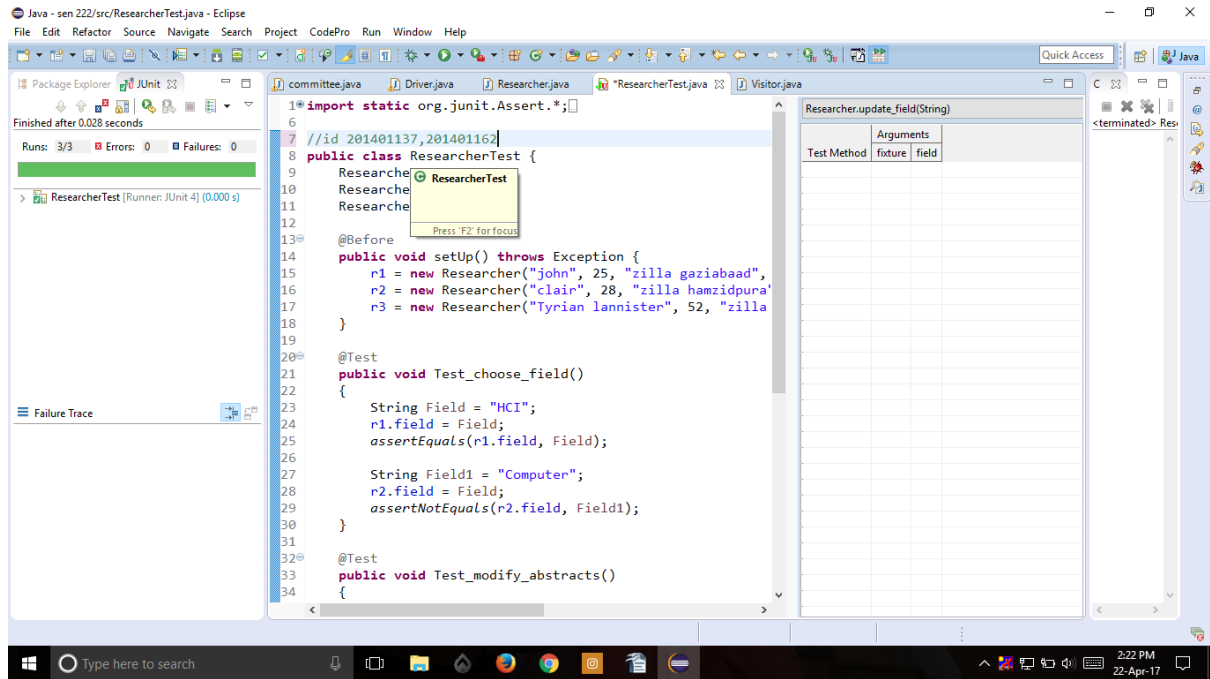
### Grp: 3.2

Mohit Savaliya - 201401137  
Dhaval Panjwani - 201401162

TC#	TC_Name	Description	Input	Actual Output	Expected Output
TC_01	TC_check_researcher_login	Given the input researcher type, and credentials of Username and password, the researcher should log in and return "Researcher logged in" to console.	Login Credentials Username = John_Glen Password = jon123456	Researcher logged in	Researcher logged in
TC_02	TC_check_researcher_login	Given the input researcher type, and credentials of Username and password, the researcher should log in and return "Wrong username and password." to console.	Login Credentials Username = John_Glen Password = jon123	Wrong username and password.	Wrong username and password.
TC_03	TC_is_system_submitting_abstracts	Given the input abstract, the method should save the abstract and return "Abstract submitted" to the console for a user in	Abstract content = "This abstract is about Artificial intelligence. ...."	Abstract is submitted successfully.	Abstract is submitted successfully.

		the database			
TC_04	TC_is_system_modifying_abstracts	Given the input abstract, the method should save the abstract and return "Abstract modified successfully." to the console for a user in the database	Abstract content = "This abstract is about Artificial intelligence. ...." will change to new abstract content like content = "This abstract is about Fingerprints system...."	Abstract is modified successfully.	Abstract is modified successfully.
TC_05	TC_is_system_choose_field	Given the input field by researcher and add it to particular researcher's account.	Field content = null to Field_content= "computer science"	Field entered successfully.	Field entered successfully.
TC_06	TC_is_system_update_field	Given the input field by researcher to modify current field and add it to particular researcher's account.	Field content = "HCI" to Field_content= "computer science"	Field modified successfully.	Field modified successfully.
TC_07	TC_is_system_to_pay_fees_for_passes	Given the input of valid card number and OTP, system will change that particular visitors payment status to true.	When visitor comes to pay the fees, he/she will be redirected to secure payment mode. And by giving valid card number and OTP or PIN they can pay fees	Fees pay successfully	Fees pay successfully
TC_08	TC is to get passes for visitors	For getting passes one should have done payment of their fees.	By checking the payment of visitor is done, system will generate pass for	Pass generated successfully	Pass generated successfully

			visitor. If fees would be payed, passes with ticket number would be generated and returned.		
TC_09	TC is to check if system gives entry for visitors	The system will take the get_entry function by visitor, will check if passnumber belongs to the same visitor and if he would have paid fees , he will get the entry.	Input would be the request from the visitor to get entry R1.get_entry ().	Entry Granted	Entry Granted
TC_10	TC_is_to_check_if_committee_can_edit_current_selected_list_of_applicants	The advisory committee will maintain a list of selected applicants. If they want to add a member to the list, they should be able to add the researcher to the list. If the list is updated successfully, the system would return "List edited successfully." on the console.	Input is name of researcher which is to be added to the list.	List edited successfully	List edited successfully



J unit test case successful.

Code in zip file uploaded in SEN folder.