Conference Paper Review System Report

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9/25/23

CIS 425

Sec 001

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Introduction:

The design proposed for a conference review system includes the system administrator, conference chair, authors, and reviewers. A robust and efficient system for conference paper review system should streamline the complex processes involved in gathering, evaluating, and ultimately deciding to publish the paper into the event. In the first phase, a conference chair calls for a conference system to be initiated by system administrators. Then, the system admin creates an entry for that conference with details from the Chair and generates the login information. The author logs in with their unique ID and submits their paper for the appropriate conference they wish to be published. The Chair receives the entry from the author and chooses three reviewers to evaluate the paper with either a selection of acceptable, neutral, or rejection. The Chair then assesses the responses from the reviewers and ultimately decides the fate of the paper- to be published or not published. Also, the system will suggest the Chair for the paper with a pre-populated answer. When all three reviewers mark the paper as acceptable, it will prompt publication, while the Chair can overwrite the outcome. Another outcome is when at least two reviewers choose neutral/reject options, the system is pre-populated with "not publish," but the Chair can overwrite the outcome if chosen. The author will see it pending until the final results from the Chair have been released.

Interview Summary:

We had the privilege of meeting with the client for 45 minutes in order to address ambiguities and clarifications not explicitly articulated in the initial project design description. Prior to the meeting, any array of inquiries, curated through collaborative efforts from multiple project managers/students, were compiled. The meeting covered a multifaceted spectrum, including extensive user roles, clarification of data management, exploration of decision-making mechanisms, and shedding light on the system's adaptability to the needs of authors, reviewers, and Conference Chair. The interview revealed a comprehensive understanding of the system's intricacies and highlighted the need for a conference review system to facilitate a seamless publication of academic papers for the conferences.

Interview Report

Report Date: 9/25/23

- Interviewer: Meaad Hassan
- Interviewee: Dr. Medjahed
- Date and Location: 9/13/23 at PEC 1410
- Start/End Time: 2:00pm to 2:45pm

System Description (100 words):
Admin receives a request from conference program chair to create a conference entry. The information is name, location, dates, submission deadline and chair info. It will store this info in the database, generate chair login credentials, and email them. An author then logs in using their account and selects the conference. Authors can track paper statuses but not see the reviewer's opinion. The reviewers log in and view the assigned papers and provide recommendations (Accept, Neutral, Reject). The default is "Pending". The conference logs in using the provided credentials, assign three reviewers for each paper submitted and track review progress. They enter a final recommendation (Publish or Do Not Publish) based on reviewers' recommendations or the automated system generated suggestion from preprogrammed response.

Goal of the Interview (50 word):
The goal of the interview is to get a better understanding of the aspects of the conference paper review system design. We wanted to get clarity about the system as there is ambiguity in the description of the system on how to implement it. How thoroughly should the system work, as there are many edge cases that are encountered?

Interview Questions (10 questions):

#	Question	Open/Closed	Summary Answer
1	Should we allow reviewers to make changes to their reviews even after the Conference Program Chair has made the decision?	Closed	No, Once submitted cannot make changes.
2	The author can view the status of there paper if it is published not published or under review if the automated system sees that 3 reviewers all say to publish the paper will the paper show to the author as publish even if the conference chair has not looked at the paper and can still deny it's publication?	Closed	The author will only see the final review answer of publish or not published.
3	Since submitting a paper to a conference is time-sensitive, will the program utilize real system time? Or will users be alternatively inputting the current date manually?	Closed	System will automatically remove the submission button after deadline time.
4	Can reviewers and chairs modify their recommendation once submitted without aid from the system administrator? If so, will there be a soft deadline (set/desired cut-off time) for	Closed	The reviewers has as much time as the chairs gives the final

	reviewers so that the chair and system can recommend without issue?		verdict. The deadline is only for the author.
5	Between authors how would collaborative efforts be shared (is it on the site itself or previous documents?) and would papers be unchanged once submitted or still have access to be changed in the future (Adding the number of authors to re-edit, granting access to said authors to edit.)	Closed	The author or coauthors are not allowed to resubmit after submitting the paper once.
6	Is there a limit of conferences 1 person can be the Conference Program Chair of?	Closed	A person can be multiple roles
7	Can a reviewer be assigned to multiple conferences?	Closed	Yes, they can be assigned.
8	Since multiple paper submissions are allowed, is there a limit on how many papers an author can submit to the same or different conferences?	Closed	There are no limits for author submission and can submit to multiple conference if they like.
9	For the Reviewers role, do they also get the option to give feedback outside of the recommendation (accept, neutral, reject)? For example: A simple text box, allowing the reviewers user input to explain why the paper was given a certain recommendation.	Closed	No other explaining required other than choosing three recommendations.
10	I noticed the conference program chair can still override the automatically generated recommendations of the reviewers, so does that mean the chair will be given an option to not publish the papers even if all reviewers accepted it?	Closed	The conference has finally say as it may be out of scope in their view of the conference or want a diversity of paper.

Major Findings (1-3):

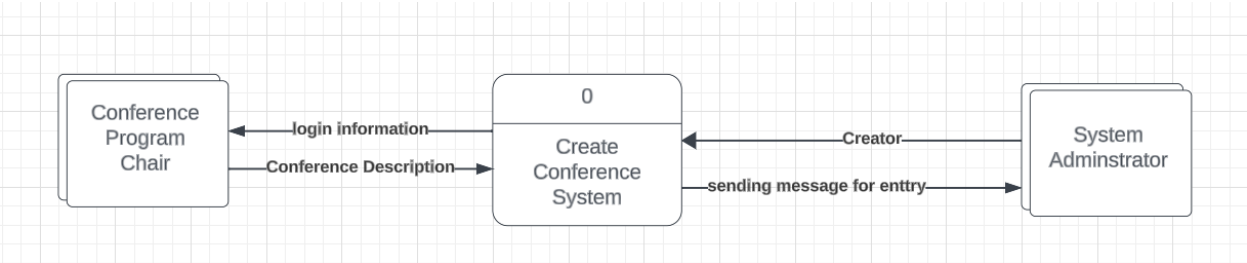
The findings of the interview are the pragmatic consideration of time constraints and knowledge withing the project's scope. Given the limited timeframe for project submission, it became evident that the system is not need be excessively intricate in every way of a real-world system. Notably, authors are granted a single opportunity for paper submission per conference and will receive a solitary final recommendation. They will also have no access to reviewer's individual assessment with a message saying "pending" only. A person may have multiple roles in the system, except for concurrent authors and chairing of conferences. The chair role as the ultimate arbiter, possessing the authority to override the system's pre-established recommendation based on reviewers' evaluation and reviewers' assessment of acceptability or rejection or neutral. It was noteworthy that most queries posed during the interview felt to me as resolved.

Follow-up Questions (if any):

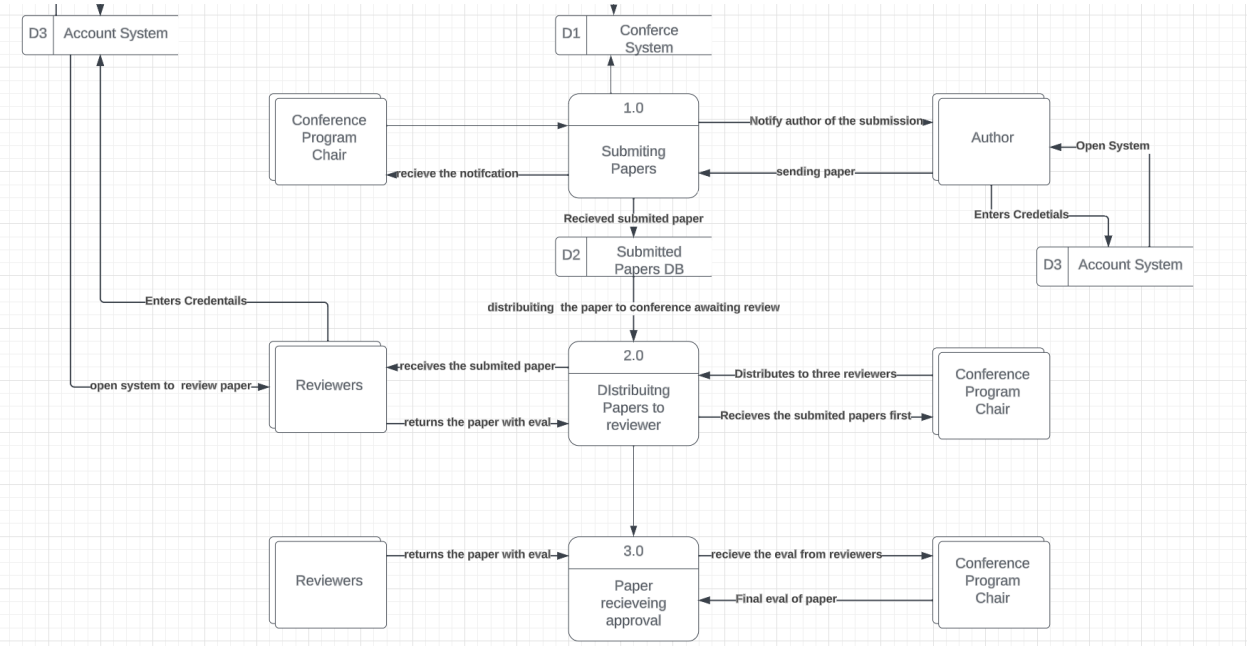
We had one pertaining to local timing of submissions as it was not fully answered the way we wanted to have it. He persisted it goes with client system time and must be submitted within the deadline.

DFD:

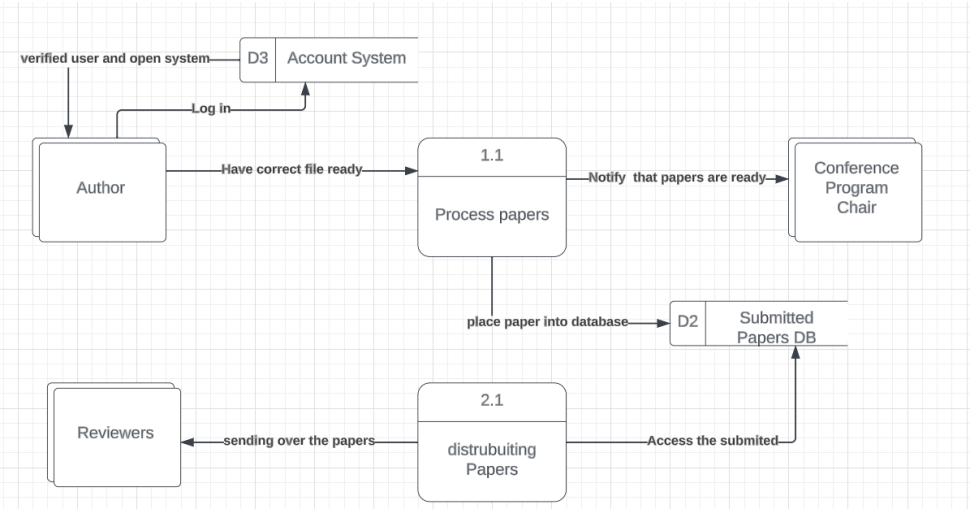
Context Level Diagram



Level 0 Diagram



Child Diagrams



Process Specification Form

Number: 21

Name: Conference review system

Description: A robust and efficient system for conference paper review system allow to streamline the complex processes involved in gathering, evaluating and ultimately deciding to publish the paper into the event.

Input Data Flow:

Valid Conference papers into D2
Login credentials form from each type of user
Conference papers from D2 into Reviewers account
Record Reviewers Assessment Choice.

Output Data Flow:

Pending Outcome of Assessment
Chair Final Recommendation
Updated conference information
Updated Author Submission Information

Type of Process

✓Online **☐Batch** **☐Manual**

Process Logic:

IF paper submitted
THEN distribute to random reviewers.
OPEN document.
IF paper is read
THEN select a choice for paper.
THEN Chair see their option to review
IF chair agrees with system
THEN will submit as is.
ELSE
THEN chair will change answer to its desired recommendation

Refer to Name: distributing paper to review

✓ Structured English **☐ Decision Tree** **☐ Decision Table**

Unresolved Issues:

No unresolved issue as it's only a one-way street and all ambiguity were answered in the interview for this process.

Next Steps in the Project:

In the next phase, I will detail a UML use case diagram, database schema design, and user interface design. For my database schema, the design will incorporate a comprehensive illustration presenting the specific data values that each database entity will record. Furthermore, the structure of a detailed outline of the various segments comprising the user interface provides an intricate blueprint for user interaction. Lastly, the UML diagram design culminates in a visual diagram that explains the classes utilized within the program and their respective variables, offering a logical representation of the program's structural design. Finally, I will implement the design created on paper into a working program. I will then demonstrate the program in video format.

Tentative Schedule:

Conference Review System Project

Project start: **Tue, 9/5/2023**

Display week: **1**

SIMPLE GANTT CHART by Vertex42.com
https://www.vertex42.com/ExcelTemplates/simple-gantt-chart.html

TASK	PROGRESS	START	END
Initiation			
Read Project Scope	100%	9/5/23	9/13/23
Write Questions	100%	9/8/23	9/13/23
Interview	100%	9/13/23	9/13/23
Report Interview	100%	9/13/23	9/18/23
Work on next step	100%	9/13/23	9/15/23
Planning and design			
Create schedule	100%	9/22/23	9/25/23
Create Report	100%	9/18/23	9/25/23
Design DFD	100%	9/19/23	9/25/23
Write summary and intro	100%	9/20/23	9/25/23
Write next step	100%	9/21/23	9/25/23
Execution			
Design UML	0%	9/26/23	10/10/23
Design UI	0%	10/11/23	10/20/23
Design database	0%	10/20/23	11/13/23
Report on Design	0%	10/11/23	10/15/23
start programming	0%	10/20/23	11/13/23
Evaluation			
create ui	0%	11/13/23	11/16/23
Have a working database	0%	11/16/23	11/20/23
Evaluate progress	0%	11/21/23	11/24/23
testing project	0%	11/18/23	11/21/23