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1. Software Requirement Specification (SRS)

1.1 Introduction

1.1.1 Purpose

Recently, there has been an upsurge in the number of people obtaining postgraduate degrees (Sarrico 2022). A study found that between 2014 and 2019, there were 25% more people with postgraduate degrees in the OECD countries (Sarrico 2022). This has led to an increase in the number of research articles being published annually.

There are 7 million new publications each year (Fire & Guestrin 2019). As a result, authors must ensure that their work is of high calibre, which has raised the necessity for revising research articles (Kelly, Sadeghieh & Adeli 2014). This is typically accomplished through a procedure called peer review, where experts in the same field assess the authors' work to address any potential errors before the research paper is published (Kelly, Sadeghieh & Adeli 2014).

ConfrencePro is a Research Conference Management System designed to connect the authors of research papers with experts in the same fields. The software allows the authors to submit their work for evaluation by specialists in related fields, who subsequently offer their feedback and their opinions on whether to publish the research papers or not. As a result, the authors can enhance their work and publish an improved version of it.

The purpose of this report is to study and specify the requirements of ConfrencePro. The document also provides an insight into the functional and non-functional requirements of the system as well as the various other design constraints that can affect the system.

1.1.2 Scope

ConfrencePro is a web-based system with three different types of users, the authors, the reviewers, and the conference chair. The authors can submit a research paper through a submission page, where they can enter the article's information and label it with a subject tag

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based on its contents and area of study. If the paper falls within the reviewers' areas of expertise, which they have indicated when creating their accounts, they will bid for it. The conference chair will then allocate the winning bidder the paper according to the reviewers' specialties and their preferred workload. Several features have been introduced to the system to improve its usability, including the reviewers' ability to update their evaluations and ratings if they make errors, see other reviewers' comments on the papers they are revising, and limit the number of articles they can revise at a time. The authors are also given the ability to view the statuses of their submitted papers from submission time till they receive the reviewers' feedback.

At the backend, the system is controlled by the system administrators. This group of personnel is responsible for facilitating the operations of the system by enforcing the company's policies such as contents of users' comments. They also alter the users' account information and the details of the submitted papers when the users make mistakes.

1.1.3 Definitions, Acronyms, and Abbreviations

- OECD: A term that stands for Organization for Economic Cooperation and Development. It is an institution that contains 38 different countries from all over the world who cooperate to solve worldwide problems (Law 2016; OECD n.d.).
- SRS: It is an abbreviation for Software Requirement Specification.

1.1.4 Overview

The SRS part of the report is divided into two main sections: "[The Overall Description](#)" and "[The Specific Requirements](#)". The former contains information about the various possible factors that can influence the system and its specifications. The latter, on the other hand, entails all the necessary features that must be present in the system to meet the users' needs.

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1.2 Overall Description

1.2.1 Product Perspective

In addition to writing and reviewing papers, a large amount of time for Research Conferences is spent in general management, allocation and submission of papers. This makes the process complicated as the chair has to allocate the papers to respective reviewers according to their preferences while also making other key decisions.

The proposed system will help organise and manage research conferences and permit administration of multiple user types such as paper authors, reviewers, as well as conference chairs to increase their efficiency and productivity. The system functionalities include authorising the submission of papers, reviewing of papers, enabling the allocation of papers to respective reviewers, as well providing a platform to easily view and manage reviews and ratings.

1.2.1.1 System Interfaces

The front-end of the conference management system is a web-application that is accessed through a client's browser. This front-end application will be hosted on the same server as the back-end application, but they can be hosted separately if needed.

The back-end is a Spring Boot application that communicates with the front-end application using REST requests. The back-end accesses the database to modify or retrieve data to send to the front-end. The database is a cloud hosted noSQL solution provided by MongoDB.

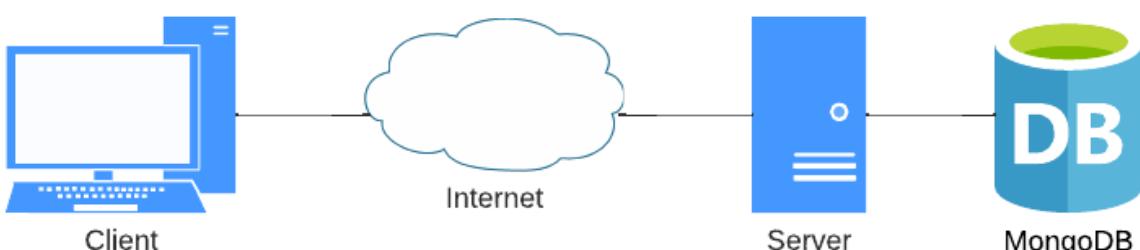


Figure 1: System Architecture

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The developed system for research conference management is a web-application that can be deployed on the internet.

Clients can use the system with any personal computer that has access to the internet.

REST API using Spring Boot acts as the server, whereas Mongo-DB Atlas is the database.

1.2.1.2 User Interfaces

Any browser, including Internet Explorer, Mozilla Firefox, and Google Chrome, that a user uses to access the system will be compatible with the user interface of the software.

The system administrator who has the highest access will have a different interface from the other users like chairs, reviewers, and authors. The interface of each user type will be distinct and will be catered to achieve their respective functionalities.

Any tool or software package, such as a Java Applet, Microsoft Front Page, an EJB, etc., may be used to construct the user interface.

1.2.1.3 Hardware Interfaces

The required hardware interface of the system would be a personal computer and other hardware needed to connect to the internet because the program is a web-based application. Examples of hardware include modems, WAN-LANs, and Ethernet cross-cables.

1.2.1.4 Software Interfaces

1.2.1.4.1 User Interface

- **Front-end framework:** React
- **Back-end framework:** REST API using Spring Boot
- **Persistence solution:** MongoDB Atlas
- The user can interact with the system through a web browser.
- The system shall communicate with the Authors to receive research papers for submission, add ratings, as well as to configure specifications like research topics, number of papers written etc.

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- The system shall communicate with the Reviewers to submit a bid, review allocated papers, add comments as well as to identify interested specifications such as interested research topics, maximum load etc.
- The system shall communicate with the Conference Chairs to make decisions about papers as well as to allocate papers to respective Reviewers.
- The system shall also communicate with the System Administrators to ensure proper management of all functions and user types.

1.2.1.4.2 External System Interface

There are no links or involvement of external systems.

1.2.1.5 Communication Interfaces

- The research management system must use the HTTP protocol for intranet communication and the TCP/IP protocol suite for internet connection.

1.2.1.6 Memory Constraints

The client will only require a minimal amount of available RAM and persistent storage. Cookies will require a negligible amount of storage to ensure seamless application use, likewise graphical assets will only require a minimal amount of transient memory. Downloaded research papers will require more substantial storage but given the high average size of modern devices persistent storage this will also be negligible.

1.2.1.7 Operations

The Research Conference Management System must be convenient to use and accessible for all users with no additional technical skills.

The system should require low maintenance, along with specified recovery and backup procedures in case of database failure, website crash, or other issues like network and power failure.

The operating environment for the Research Conference Management System is as follows:

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- client/ server system
- Frontend application can run on any operating system that supports modern web browsers, such as Windows, macOS and Linux
- Backend server can run on Windows, MacOS and Linux as Spring Boot compiles to a java executable.
- Database solution is a hosted cloud database solution provided by MongoDB.

1.2.2 Product Functions

The Research Conference Management System helps the Authors with the following functions:

- Submit research papers for review, including those with multiple authors.
- View the result of the peer review process.
- View reviewers' comments on a reviewed paper and rate the review.

The Reviewers of the system have the following functions:

- Bid for papers by managing their preferences for topics.
- Submit and edit their reviews and ratings for papers assigned to them.
- View other reviews left on the same paper assigned to them and add comments to further discussions.
- Manage their workload by setting the maximum number of papers they can review.

For the Conference Chairs, the system enables them to:

- Allocate papers to reviewers based on their preferences and workload if it is not automatically assigned.
- Decide acceptance/rejection of papers based after the reviewing process.
- Notify Authors accordingly via email.

Moreover, System Administrators have influence over the research management system through the following key responsibilities:

- Manage all user accounts and profiles. Each user profile includes the necessary personal information associated with the account.

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- Configure the system setup parameters and keep the system running.

1.2.3 User Characteristics

The users of the Research Conference Management System include the system administrator, author, reviewer, and conference chair.

- It is expected of all users that they are familiar with the Internet.
- System administrators need to be well-versed in networks and online applications, for the purpose of installing and maintaining the system.
- It is expected of the Author that they have sound knowledge in writing research conference papers.
- It is expected of the Reviewer that they have knowledge in reviewing and bidding of papers.
- The Chair is expected to apprehend making key decisions, procedures, and tools they use to allocate papers.

1.2.4 Constraints

The system should strictly obey and satisfy the following constraints:

- Security including user authentication should be enforced by the system.
- The system must grant each type of user with the proper access rights and user interfaces.
- To reduce the risk of database loss and corruption, all of the system's databases must be easy to back up and restore.
- The product needs to be kept in a location where the customer may easily obtain it.
- It shouldn't take more than five minutes to load the product in response.

1.2.5 Assumptions and Dependencies

These are assumptions and dependencies for the system:

- All users of the Research Conference Management System must have an email address

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- Each user only has one role within the conference.

1.3 Specific Requirements

These are functional and non-functional requirements of the ConferencePro system ranked based on level of significance:

- **Critical:** Highest importance level. Requirements with highest priority that need to be implemented first, as they reflect the core functionalities of the ConferencePro system.
- **Desirable:** Medium importance level. Reflect necessary but non-critical functionalities of the ConferencePro system that should be implemented after all critical and essential requirements have been completed.
- **Optional:** Lowest importance level. These are optional requirements that would further enhance the Conference Pro systems functionalities. They are considered only when all Critical, Essential, and Desirable requirements have been fulfilled.

1.3.1 Functional Requirements

1.3.1.1 Users Management Subsystem

1.3.1.1.1 User Side

Requirement #: F_01	Requirement Type: Functional	Use Case #: Use Case 1.2
Description	The system should provide a user of any type (System Admin/Author/Reviewer/Chair) with a GUI to choose their relevant role so they can log into the correct system and access relevant services.	
Rationale	A user wishes to log into the system.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	The user is successfully logged into the correct account.	
Dependencies	The user must have an existing account. User's login details must be inputted correctly.	
Rank of Importance	Critical	

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Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023.

Requirement #: F_02	Requirement Type: Functional	Use Case #: Use Case 1.1
Description	The system should provide a user of type (Author/Reviewer) with a GUI form to sign up for an account. This form should contain the basic information needed for creation of an account. Basic personal information consists of Full Name (required), Email (required), Role (required), Password (required).	
Rationale	An author/reviewer wants to create an account.	
Source	Authors, Reviewers	
Fit Criterion	The system should display a form for an Author/Reviewer to fill in the information needed to create an account and the form submission is successful.	
Dependencies	The user must not already have an existing account linked with the email address submitted.	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023.	

Requirement #: F_03	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide a user of any type (System Admin/Author/Reviewer/Chair) with a GUI form to change their account's password. The system must request the current password (cannot be viewed) before the user can update their password.	
Rationale	A user wants to update their password to ensure account security.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	The user's account password is successfully updated and stored.	

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Dependencies	A user must have an existing account. A user must provide the current account password.
Rank of Importance	Optional
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023

Requirement #: F_04	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide any type of user with a GUI form to modify their own profile without having to request the system admin. This form should contain information the user wants to change. A profile consists of Full Name, Email Address, Role (Can not be changed), Password.	
Rationale	An author/reviewer wants to update their profile details.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	The system should display a form for an Author/Reviewer to fill in the information he wants to modify in his own profile and the form submission is successful.	
Dependencies	A user profile must exist.	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: F_05	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide a user (Author/Reviewer) with a GUI to delete their account.	
Rationale	An author/reviewer does not want to use the system anymore and wishes to delete his/her account.	
Source	Authors, Reviewers	
Fit Criterion	The user account is deleted and removed from the system.	

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Dependencies	The to-be-deleted account must exist. The user must provide account password for the to-be-deleted account before deletion is confirmed.
Rank of Importance	Optional
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

1.3.1.1.2 Administrator side

Requirement #: F_06	Requirement Type: Functional	Use Case #: Use Case 2.1
Description	The system should provide a system admin with a GUI to view all user profiles.	
Rationale	A system administrator needs to view all user profiles on the database.	
Source	System administrators	
Fit Criterion	All user profiles can be viewed successfully.	
Dependencies	System admin must be authorised to access all user accounts	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Requirement #: F_07	Requirement Type: Functional	Use Case #: Use Case 2.2
Description	The system should provide the system admin with a GUI that enables them to search for a specific user of any type. Search criteria include: Email address, Full Name.	
Rationale	A system administrator wants to search for a specific user.	
Source	System administrator	

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Fit Criterion	A GUI search bar for the user should be displayed.
Dependencies	None
Rank of Importance	Desirable
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

Requirement #: F_08	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide a system admin with a GUI to add a new non-administrator user (Author/Reviewer/Chair) profile. A profile consists of Full Name, Email address (Required), Role (Required) and Password.	
Rationale	System admin wants to add a new non-administrator user profile.	
Source	System administrators	
Fit Criterion	A new non-administrator user profile is successfully created and added.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 05/04/2023	

Requirement #: F_09	Requirement Type: Functional	Use Case #: Use Case 2.3
Description	The system should provide a system admin with a GUI to edit an existing non administrator (Author/Reviewer/Chair) user profile. A profile consists of Full Name, Email address (Required), Role (Required) and Password.	
Rationale	A system administrator has received a request to edit an existing non-administrator user profile.	

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Source	System administrator
Fit Criterion	An existing non-administrator user profile is successfully edited and the edits are saved.
Dependencies	The user profile to be edited must exist.
Rank of Importance	Desirable
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

Requirement #: F_10	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide a system admin with a GUI to edit his own profile details. A profile consists of Full Name, Email address (Required), Role (Required) and Password.	
Rationale	A system administrator wants to edit his profile information.	
Source	System administrator	
Fit Criterion	The profile is successfully edited and updated.	
Dependencies	The user profile to be edited must exist.	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 05/04/2023	

1.3.1.2 Resources Management Subsystem

1.3.1.2.1 Papers Management

Requirement #: F_11	Requirement Type: Functional	Use Case #: Use Case 3.1
Description	The system should provide the authors with a GUI form to upload paper submissions. The submission form should contain title of paper	

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	(Required), abstract (Required), authors' details which include (Title, First Name, Last Name, Institution) and paper topics (Required).
Rationale	An author wants to submit his paper for a review.
Source	Authors
Fit Criterion	A GUI submission form must be displayed. Paper is successfully submitted.
Dependencies	None
Rank of Importance	Critical
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

Requirement #: F_12	Requirement Type: Functional	Use Case #: Use Case 3.3
Description	The system should provide the reviewers with a GUI that enables them to view all papers that have been assigned. The information with the list of papers include Full Name (Required), Email address, Date (Required), Paper title (Required).	
Rationale	A reviewer wants to view all papers assigned to him/her.	
Source	Reviewers	
Fit Criterion	A list of all papers assigned to the user is displayed.	
Dependencies	At least one paper must be assigned to the user	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

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Requirement #: F_13	Requirement Type: Functional	Use Case #: Use Case 3.4
Description	The system should provide the user (System Admin/Conference Chair) with a GUI that allows them to view all submitted papers. The information with the list of papers include Full Name (Required), Email address, Date (Required), Paper title (Required).	
Rationale	A system administrator/conference chair wants to view all papers that have been submitted on the system.	
Source	System administrators, Conference chairs	
Fit Criterion	System administrator/conference chair can view all submitted papers.	
Dependencies	At Least one paper must be submitted.	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Requirement #: F_14	Requirement Type: Functional	Use Case #: Use Case 3.5
Description	The system should provide a user (Chair/System Admin) with a GUI field to search for a specific paper submission. Search Criteria Include: Authors' name, Paper Title, Reviewers	
Rationale	A system administrator wants to find a specific paper.	
Source	System administrators	
Fit Criterion	The submission is displayed successfully.	
Dependencies	The criteria paper being searched must exist.	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

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Requirement #: F_15	Requirement Type: Functional	Use Case #: NONE
Description	The system should allow system admins and conference chairs to filter papers by topics, date of submission and authors. The purpose of filtering is to extract specific records of submissions among all submissions that are displayed.	
Rationale	A system administrator/conference chair wants to filter papers submitted.	
Source	System administrators, Conference chairs	
Fit Criterion	Submissions can be filtered successfully.	
Dependencies	Submissions must have an associated topic, author and date they were submitted on.	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 05/04/2023	

Requirement #: F_16	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide the system administrators and conference chairs with a GUI that enables them to sort papers by the date of submission.	
Rationale	A system administrator/conference chair wants to view the latest submitted papers.	
Source	System administrators, Conference chairs	
Fit Criterion	Submissions can be sorted successfully.	
Dependencies	Submissions must have an associated date they were submitted on.	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

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1.3.1.2.2 Reviews Management

Requirement #: F_17	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide the conference chairs with a GUI that allows them to sort the reviewers' accounts by their workload limit.	
Rationale	A conference chair wants to find reviewers with the highest workload.	
Source	Conference chair	
Fit Criterion	Reviewers are successfully sorted by workload.	
Dependencies	None.	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Requirement #: F_18	Requirement Type: Functional	Use Case #: NONE
Description	The system should provide the conference chairs with a GUI that allows them to easily filter the list of reviewers' accounts according to their preferred topics and workload limit.	
Rationale	A conference chair wants to view the reviewers who prefer to revise papers with specific topics.	
Source	Conference chairs	
Fit Criterion	Reviewers can be successfully filtered by Conference Chair.	
Dependencies	Reviewers must listed their preferred topics.	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

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Requirement #: F_19	Requirement Type: Functional	Use Case #: Use Case 4.1
Description	The system should provide the reviewers with a GUI that allows them to set their preferred workload limit and topics to review. The GUI form consists of a predetermined list of topics (Required), Workload limit (Required).	
Rationale	A reviewer wants to have a limit for the number of papers he/she can review at a time. He/she would also like to review their preferred topics only.	
Source	Reviewers	
Fit Criterion	Reviewer sets workload limits and topic preferences and the system successfully stores that information.	
Dependencies	Reviewer should have an account stored in the system. Reviewer should log into the account using his/her email and password	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Requirement #: F_20	Requirement Type: Functional	Use Case #: Use Case 4.3
Description	The system should provide the conference chairs with a GUI that enables them to manually assign papers to reviewers according to their topics of interest and workload limit. The information displayed along with the paper include Author name (Required), topic of paper (Required), Reviewer Name (Required), topic of interest (Required), current load (Required), workload limit (Required).	
Rationale	A conference chair wants to manually allocate a paper to a reviewer.	
Source	Conference Chairs	
Fit Criterion	The conference chair is able to manually assign a paper from the unassigned papers list to the available reviewer(s).	

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Dependencies	The Reviewer should exist to be assigned. The paper should exist to be assigned.
Rank of Importance	Critical
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

Requirement #: F_21	Requirement Type: Functional	Use Case #: Use Case 4.3
Description	The system should provide the conference chairs with a GUI that enables them to conduct automatic allocations of papers to reviewers using an algorithm at the backend of the system.	
Rationale	A conference chair wants papers to be automatically allocated to reviewers.	
Source	Conference Chairs	
Fit Criterion	System automatically and successfully assigns paper to reviewer(s)	
Dependencies	Papers to be allocated must exist. Reviewers must be available to be assigned the paper.	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Requirement #: F_22	Requirement Type: Functional	Use Case #: Use Case 4.4, 4.5
Description	The system should provide the System Administrator with a GUI that allows them to edit the feedback of the reviewers on papers.	
Rationale	A system administrator wants to edit a paper's review feedback after a mistake has been made.	
Source	System administrators	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Fit Criterion	System administrator successfully edits review feedback.
Dependencies	The to-be-edited feedback must exist.
Rank of Importance	Optional
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

1.3.1.3 Conference Activities Management Subsystem

1.3.1.3.1 Reviewing & Rating Processes Management

Requirement #: F_23	Requirement Type: Functional	Use Case #: Use Case 5.1, 5.2
Description	The system should provide the reviewers with a GUI that allows them to submit and edit their reviews and ratings. Ratings include a scale of: 3 (strong accept), 2 (accept), 1 (weak accept), 0 (borderline paper), -1 (weak reject), -2 (reject), -3 (strong reject).	
Rationale	A reviewer needs to edit/provide the conference chair and the author with his/her reviews and ratings on a paper.	
Source	Reviewers	
Fit Criterion	Reviewer can successfully submit and edit reviews and ratings.	
Dependencies	The reviewer must be assigned and should be authorised to review the paper.	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Requirement #: F_24	Requirement Type: Functional	Use Case #: Use Case 5.3
Description	The system should provide the reviewers with a GUI that allows them to view previous reviews on a paper after submitting their own review for it and add comments to discuss reviews.	
Rationale	A reviewer wants to provide feedback to other reviewers on their review.	
Source	Reviewers	
Fit Criterion	Reviewer is able to view all previous reviews after submission of review and is able to add comments. The system successfully displays the comment in the discussion list.	
Dependencies	The paper must previously be reviewed by at least one other reviewer. The user must first complete a review of paper to access past reviews.	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023	

1.3.1.3.2 Decision Making & Notifying Process Management

Requirement #: F_25	Requirement Type: Functional	Use Case #: Use Case 5.4
Description	The system should provide the conference chairs with a GUI that allows them to view the reviews and ratings for a paper to decide whether it should be accepted or rejected.	
Rationale	A conference chair needs to decide whether a revised paper has been accepted or rejected based on the reviews for the paper.	
Source	Conference Chairs	
Fit Criterion	Conference chair is able to view the reviews and score provided by the reviewer for the paper and can accept or reject the paper. The notification should be sent to the author by the system.	
Dependencies	The to-be-accepted-or-rejected paper must exist. The paper should be reviewed by at least one reviewer.	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Rank of Importance	Critical
Supporting Materials	None
History	Created by Youmna Elshimy 02/04/2023 Edited by Youmna Elshimy 04/04/2023

1.3.2 Non-Functional Requirements

Requirement #: NREQ_01	Requirement Type: Accessibility	Use Case #: NONE
Description	The user interface of the system should utilise a good colour combination, visible buttons, search by voice, keyboard navigation and consistency with headings and fonts to allow people with vision problems and physical disabilities to comfortably use the system.	
Rationale	A disabled user wishes to use the system.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System is designed with good colour combinations, big buttons, and consistent headings and fonts. It also successfully allows the users to navigate via keyboard and search by voice (available only for system administrators and conference chairs).	
Dependencies	None	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_02	Requirement Type: Usability	Use Case #: NONE
Description	The system should include a GUI that fully supports English as it is considered the most spoken language in the world (Berlitz 2023).	
Rationale	Users would like the website to fully be in English to facilitate the communication between them.	
Source	Authors, Reviewers, Conference Chair, System Administrator	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Fit Criterion	English is successfully supported as the main language.
Dependencies	None
Rank of Importance	Critical
Supporting Materials	EQ_SoftwareRequirementsSpecification.doc
History	Created by Youmna Elshimy 04/04/2023

Requirement #: NREQ_03	Requirement Type: Usability	Use Case #: NONE
Description	The system should support popular web browsers including but not limited to Chrome, Firefox, and Safari. The system should also be compatible with different devices and operating systems.	
Rationale	Users would like to access the system using web browsers, devices, and operating systems.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System supports access across different web browsers.	
Dependencies	None	
Rank of Importance	Optional	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_04	Requirement Type: Usability	Use Case #: NONE
Description	The system should provide system administrators and conference chairs with autocomplete search suggestions when they are searching for a user profile or paper submission.	
Rationale	System administrator/conference chair would like to have autocomplete search suggestions whenever they are using the search bar to facilitate the search process for them.	
Source	Conference Chair, System Administrator	

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Software Requirements Specification	Date: <06/04/2023>

Fit Criterion	Autocomplete feature is implemented and executed accurately
Dependencies	None
Rank of Importance	Optional
Supporting Materials	None
History	Created by Youmna Elshimy 04/04/2023

Requirement #: NREQ_05	Requirement Type: Usability	Use Case #: NONE
Description	System should be intuitive and easy to interact with.	
Rationale	Users would like the system to be easy to use and navigate through.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	Users, including first-timers, can easily use the system without any need for help or onboarding pages.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_06	Requirement Type: Usability	Use Case #: NONE
Description	System's design should be consistent and reflect UI prototypes.	
Rationale	Users would like the system to have consistency.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System is designed exactly like the prototypes	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

History	Created by Youmna Elshimy 04/04/2023
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Requirement #: NREQ_07	Requirement Type: Performance	Use Case #: NONE
Description	The system should respond to user requests within 2 seconds.	
Rationale	Users would like the system to respond quickly to their requests.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System responds quickly to users' requests within 10 seconds.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_08	Requirement Type: Performance	Use Case #: NONE
Description	The system should be able to work 24 hours per day, seven days per week except during the maintenance time.	
Rationale	Users want to be able to use the system at any time (24 hours a day, 7 days a week)	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	Any authorised user can use the system at any time (24 hours per day, seven days per week).	
Dependencies	None	
Rank of Importance	Critical	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	
History	Created by Youmna Elshimy 02/04/2023	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Requirement #: NREQ_09	Requirement Type: Performance	Use Case #: NONE
Description	System should easily be able to store at least 1000 profiles, papers, and reviews with no issues arising.	
Rationale	System is becoming more popular, a lot of users have signed up, and many authors have submitted several pages into the system for revision.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System successfully stores a minimum of 1000 profiles, papers, and reviews.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_10	Requirement Type: Reliability	Use Case #: NONE
Description	System should deliver the right information to the user whenever it is required.	
Rationale	Users would like to receive accurate information when they request it in order to allow the users to carry out their roles correctly.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System delivers accurate information to the users that depends on their requests.	
Dependencies	None	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Requirement #: NREQ_11	Requirement Type: Reliability	Use Case #: NONE
Description	System needs to be able to recover from failures within 24 hours maximum.	
Rationale	System needs to recover quickly from any possible failures that might occur in order to provide its services 24/7 to the users.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System recovers within 24 hours and allows the users to utilize its services successfully.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	
History	Created by Youmna Elshimy 04/04/2023	

Requirement #: NREQ_12	Requirement Type: Reliability	Use Case #: NONE
Description	System should be easily able to support a maximum of 500 users simultaneously.	
Rationale	Several users would like to use the system at the same time.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	Up to 500 users can use the system successfully at the same time.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	
History	Created by Youmna Elshimy 04/04/2023	

Research Conference Management System	Version: <3.0>
Software Requirements Specification	Date: <06/04/2023>

Requirement #: NREQ_13	Requirement Type: Security	Use Case #: NONE
Description	System should store data securely to ensure that the privacy of the users is not violated.	
Rationale	Users of the system would like their personal information to be securely stored.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System successfully stores the users' information in a secure manner.	
Dependencies	None	
Rank of Importance	Critical	
Supporting Materials	None	
History	Created by Youmna Elshimy 02/04/2023	

Requirement #: NREQ_14	Requirement Type: Security	Use Case #: NONE
Description	System should automatically sign the users out and return them to the login page when it has not been used for 15 minutes.	
Rationale	Users would like the system to be highly secure and do not want any unauthorised personnels to access their accounts.	
Source	Authors, Reviewers, Conference Chair, System Administrator	
Fit Criterion	System returns the user to login page after user account is inactive for 15 minutes.	
Dependencies	None	
Rank of Importance	Desirable	
Supporting Materials	REQ_SoftwareRequirementsSpecification.doc	
History	Created by Youmna Elshimy 02/04/2023	

2. User stories

2.1 Users Management Subsystem

2.1.1 User Side

- **Create account:** As a new user, I want to create an account so that I can access services offered by the system.
- **Login:** As a user, I want to log in to the system so that I can access services offered by the system.
- **Edit profile:** As a user, I want to update my profile information so that my information is up to date.
- **Delete account:** As a user, I want to delete my account so that I can remove my information from the system.

2.1.2 Administrator Side

- **View all accounts:** As a sysadmin, I want to see all created accounts so that I can browse users.
- **Search for an account:** As a sysadmin, I want to search for an account by email address so that I can find a specific account.
- **Edit user account:** As a sysadmin, I want to edit users' account information so that I can fix user mistakes.

2.2 Resources Management Subsystem

2.2.1 Papers Management

- **Submit paper:** As an author, I want to submit my paper so that it can be assessed.
- **View paper submissions:** As an author, I want to view all papers submitted by me so that I can check their status.
- **View assigned papers:** As a reviewer, I want to view all papers assigned to me so that I can accept or reject the offer to review papers.
- **View all papers:** As a sysadmin, I want to view all papers submitted so that I can select a paper for editing.

- **View all papers:** As a conference chair, I want to view all papers submitted so that I can assign them and make decisions about the papers which have been reviewed.
- **Search for paper:** As a sysadmin, I want to search for a paper using a paper title so that I can find a specific paper.

2.2.2 Reviews Management

- **Add review preferences:** As a reviewer, I want to select my topics of expertise and workload preference so that I can bid for papers to review.
- **View reviewers:** As a conference chair, I want to be able to see a list of all reviewers along with their topic and workload preferences, to see which suitable reviewers are available to be assigned a paper.
- **Assign reviewer:** As a conference chair, I want to be able to assign a set of reviewers to a paper so they can assess and review it.
- **Edit review & rating:** As a system admin, I want to be able to see all ratings & reviews for a paper so that I can fix errors.
- **Edit review feedback:** As a sysadmin, I want to edit a feedback provided for a review so that I can enforce content policies

2.3 Conference Activities Management Subsystem

2.3.1 Reviewing & Rating Process Management

- **Rate & Review paper:** As a reviewer, I want to rate and review a paper so the paper can be assessed for publishing.
- **Edit rating & review:** As a reviewer, I want to be able to edit my rating and review for a paper to make changes.
- **Give review feedback:** As a reviewer, I want to see other reviews on the paper I have reviewed so that I can give feedback and discuss the review.

2.3.2 Decision Making & Notifying Process Management

- **View rating & review:** As a conference chair, I want to see all ratings and reviews after the review process is complete so that I can accept or reject the paper.

- **Accept/Reject paper:** As a conference chair, I want to accept or reject a paper based on the ratings and review so that I can inform the author of the decision.
- **View & Rate review:** As an author, I want to view and rate the review provided to my paper.

3. Use Case Descriptions

3.1 Users Management Subsystem

3.1.1 User Side

Use Case 1.1 - Create Account	
Actors	Author, Reviewer
Stakeholders and needs	Users - Need to create an account to access services the system offers.
Preconditions	<ul style="list-style-type: none">An account for the user doesn't already exist.
Postconditions	<ul style="list-style-type: none">The user will be logged in automatically and redirected to the homepage.The user will be given the option to log out.The user information will be added to the system database.
Trigger	A user wants to use services but does not have an account.
Basic flow	<ol style="list-style-type: none">User clicks the '<i>Sign up with us</i>' tab.User enters name, email address, role and password.User clicks the '<i>Create my account</i>' button at the end of the form.Confirmation message is shown.User has a new account.

Use Case 1.2 - Login	
Actors	Author, Reviewer, Conference chair, System administrator
Stakeholders and needs	Users - Need to log in to their account to use the system and its services.
Preconditions	<ul style="list-style-type: none">A user must have an active account.A user must not already be logged in.
Postconditions	<ul style="list-style-type: none">A user will no longer be given the option to log in or create an account.A user will be given the option to log out.
Trigger	A user wants to use services but is not logged in.
Basic flow	<ol style="list-style-type: none">User selects one of the appropriate roles on the landing page.Login form is shown.User enters their email and password.

	<p>4. User clicks the 'Login' button at the end of the form.</p> <p>5. User is redirected to their account page.</p>
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Use Case 1.3 - Edit Profile	
Actors	Author, Reviewer, Conference chair, System administrator
Stakeholders and needs	Users - Need to update their profile information to reflect present circumstances.
Preconditions	<ul style="list-style-type: none"> A user must be logged in to their account.
Postconditions	<ul style="list-style-type: none"> Updated information will be saved on the database.
Trigger	A user wants to update or add personal information to their profile.
Basic flow	<ol style="list-style-type: none"> User clicks the 'Profile' tab. User clicks the 'Edit Profile' tab. User fills the form with new information. User clicks the 'Save changes' button at the end of the form. Confirmation message is shown.

Use Case 1.4 - Delete Account	
Actors	Author, Reviewer, Conference chair, System administrator
Stakeholders and needs	Users - Need to delete their account to remove their information from the system.
Preconditions	<ul style="list-style-type: none"> The user must have an existing account.
Postconditions	<ul style="list-style-type: none"> The user will be logged out. Account information will be deleted from the database.
Trigger	A user no longer wants to use the system.
Basic flow	<ol style="list-style-type: none"> User clicks the 'Profile' tab. User clicks the 'Delete account' tab. A list of terms and conditions is shown with a checkbox. User clicks on 'Confirm deletion' button to delete the account. Account information is set to inactive on the database. Confirmation message is shown.

3.1.2 Administrator Side

Use Case 2.1 - View All Accounts	
Actors	System administrator
Stakeholders and needs	System administrator - Needs to view all accounts to make updates.
Preconditions	<ul style="list-style-type: none"> • System administrator is logged in. • At least one user account must exist.
Postconditions	None.
Trigger	A system administrator wants to view all user accounts.
Basic flow	<ol style="list-style-type: none"> 1. System administrator clicks the 'Users' tab. 2. Database is queried for all users. 3. List of all user accounts is displayed on the screen.

Use Case 2.2 - Search For Account	
Actors	System administrator
Stakeholders and needs	System administrator - Needs to find a user account to make updates.
Preconditions	<ul style="list-style-type: none"> • System administrator is logged in. • The user account must exist.
Postconditions	None.
Trigger	A system administrator wants to view a particular user's account.
Basic flow	<ol style="list-style-type: none"> 1. System administrator clicks the 'Users' tab. 2. System administrator enters the email address of the user in the search field. 3. Database is queried for the user email address. 4. Account information is displayed on the screen.

Use Case 2.3 - Edit User Account	
Actors	System administrator
Stakeholders and needs	System administrator - Needs to edit a user's account to make changes.
Preconditions	<ul style="list-style-type: none"> • System administrator is logged in. • The user account being updated must exist.

Postconditions	<ul style="list-style-type: none"> Updated information will be saved on the database.
Trigger	A system administrator wants to edit a particular user's account details.

3.2 Resources Management Subsystem

3.2.1 Papers Management

Use Case 3.1 - Submit Paper	
Actors	Author
Stakeholders and needs	Author - Need to submit a paper for review.
Preconditions	<ul style="list-style-type: none"> User is logged in as an author. User has a submission to make.
Postconditions	<ul style="list-style-type: none"> User's paper submission is accepted and added to the database.
Trigger	A user wants their paper to be professionally reviewed by reviewers.
Basic flow	<ol style="list-style-type: none"> Author clicks the 'New submission' tab or 'New submission' icon on the dashboard. Terms & Conditions regarding submissions are displayed. Author accepts the Terms & Conditions. Author selects the appropriate track. Author adds the title and paper content. Author adds the author(s) details. Author selects relevant topics of the paper. Author clicks 'Submit'.

Use Case 3.2 - View All Submissions	
Actors	Author
Stakeholders and needs	Author - Needs to view all papers they have submitted.
Preconditions	<ul style="list-style-type: none"> User is logged in as an author. User has made at least one submission.
Postconditions	None.
Trigger	A user wants to view all papers they have submitted.

Use Case 3.3 - View Assigned papers	
Actors	Reviewer
Stakeholders and needs	Reviewer - Needs to view papers assigned to them.
Preconditions	<ul style="list-style-type: none"> User is logged in as a reviewer. There is at least one paper assigned to the reviewer.
Postconditions	None.
Trigger	A reviewer wants to view papers assigned to them.
Basic flow	<ol style="list-style-type: none"> Reviewer navigates to the 'My Reviews' section on their dashboard. Reviewer clicks the 'See all' tab on My Reviews. List of all papers assigned to the reviewer is displayed. <p>Alternative path:</p> <ol style="list-style-type: none"> Author clicks the 'My Reviews' tab. List of all papers assigned to the reviewer is displayed.

Use Case 3.4 - View All Papers	
Actors	System administrator, Conference Chair
Stakeholders and needs	<ul style="list-style-type: none"> Conference Chair - Needs to see all submissions made to assign them to reviewers and make decisions about those that have been reviewed. System administrator - Needs to have access to all papers, to be able to edit or make changes in case of errors.
Preconditions	<ul style="list-style-type: none"> User is logged in as system administrator or conference chair. There is at least one paper submitted.
Postconditions	None.
Trigger	A user wants to view all the papers submitted.
Basic flow	<ol style="list-style-type: none"> User clicks on the 'Papers' tab. Papers are loaded from the database. List of all submitted papers is displayed.

Use Case 3.5 - Search for Paper	
Actors	System administrator

Stakeholders and needs	System administrator - Needs to find a specific paper to make changes.
Preconditions	<ul style="list-style-type: none"> • User is logged in as system administrator. • The paper being searched exists.
Postconditions	None.
Trigger	A system administrator needs to correct an error made by the author after submission.
Basic flow	<ol style="list-style-type: none"> 1. System administrator clicks on the 'Papers' tab. 2. System administrator clicks in the search field. 3. System administrator types the name of the paper they are looking for. 4. System administrator clicks enter. 5. Search results are displayed.

3.2.2 Reviews Management

Use Case 4.1 - Add review preferences	
Actors	Reviewer
Stakeholders and needs	Reviewer - Need to select topics of expertise and workload preferences.
Preconditions	<ul style="list-style-type: none"> • User is logged in as a reviewer.
Postconditions	<ul style="list-style-type: none"> • Users' preferences are added/updated in the database.
Trigger	Reviewer wants to bid for a paper and add preferences.
Basic flow	<ol style="list-style-type: none"> 1. Reviewer clicks on the 'Edit Preferences' tab. 2. Reviewer enters basic personal information (title, first name, last name and institution) 3. Reviewer selects areas of expertise. 4. Reviewer adds maximum workload. 5. Reviewer presses the 'Save preferences' button. 6. Reviewer's preferences are updated and saved.

Use Case 4.2 - View all Reviewers	
Actors	Conference chair

Stakeholders and needs	Conference chair - Need to see all reviewers along with their topic preferences and availability.
Preconditions	<ul style="list-style-type: none"> User is logged in as a conference chair.
Postconditions	None.
Trigger	Conference chair wants to check if a reviewer is available to review a paper.
Basic flow	<ol style="list-style-type: none"> User clicks on the 'Reviewers' tab or alternatively 'View Reviewers' link on their dashboard. A list of all reviewers with areas of expertise and status of availability is displayed.

Use Case 4.3 - Assign Reviewer	
Actors	Conference chair
Stakeholders and needs	Conference chair - Need to assign a paper submitted to the reviewer so it can be assessed and rated.
Preconditions	<ul style="list-style-type: none"> User is logged in as a conference chair.
Postconditions	<ul style="list-style-type: none"> Workload and availability of the reviewer must be updated after the allocation of paper. Availability of paper must be updated after it has been assigned.
Trigger	Conference chair wants to allocate an unassigned paper to an available reviewer.
Basic flow	<ol style="list-style-type: none"> Conference chair navigates to the papers screen. Conference chair clicks on the 'Unassigned' tab. Conference chair clicks on the paper that they wish to assign. Conference chair clicks the 'View Reviewers' button at the bottom to view potential reviewers. Conference chair selects suitable reviewer(s). Conference chair clicks on the 'Confirm' button. Reviewer(s) is sent a request to review the paper.

Use Case 4.4 - Edit review & rating	
Actors	System Administrator

Stakeholders and needs	System Administrator - Needs to see all ratings and reviews for a paper so they can fix any mistakes/errors after submission.
Preconditions	<ul style="list-style-type: none"> User is logged in as a system administrator.
Postconditions	<ul style="list-style-type: none"> Updated content of rating and review is saved.
Trigger	Reviewer made an error and wants to make a change to their review after submission.
Basic flow	<ol style="list-style-type: none"> User browses the relevant paper and selects the paper. User clicks "View ratings & reviews" User finds the review to be edited and clicks "Edit rating & review" User makes the relevant changes. User clicks "Save Changes" button New review and rating is displayed.

Use Case 4.5 - Edit review feedback	
Actors	System Administrator
Stakeholders and needs	System Administrator - Needs to see the feedback posted for a paper review so they can fix any mistakes/errors after submission.
Preconditions	<ul style="list-style-type: none"> User is logged in as a system administrator.
Postconditions	<ul style="list-style-type: none"> Updated content of feedback is saved.
Trigger	Reviewer made an error and wants to make a change to their feedback after submission.
Basic flow	<ol style="list-style-type: none"> User browses the relevant paper and selects the paper. User clicks "View ratings & reviews" User finds the review and relevant feedback thread to be edited and clicks "Edit feedback" User makes the relevant changes. User clicks "Save Changes" button New feedback is displayed.

3.3 Conference Activities Management Subsystem

3.3.1 Reviewing & Rating Processes Management

Use Case 5.1 - Rate & Review Paper	
Actors	Reviewer
Stakeholders and needs	Reviewer - Needs to rate and review an assigned paper.
Preconditions	<ul style="list-style-type: none">• User is logged in as a reviewer.• Reviewer is assigned at least one paper.
Postconditions	The rating and review content must be saved.
Trigger	Reviewer has to rate and review an assigned paper
Basic flow	<ol style="list-style-type: none">1. Reviewer navigates to their assigned papers.2. Reviewer accepts the offer to review the paper.3. Reviewer rates the paper's quality on a scale from -3 to +3.4. Reviewer adds a detailed comment to justify their rating5. Reviewer clicks the 'Complete Review' button at the end to submit the review or 'Save & Close' button.

Use Case 5.2 - Edit rating & review	
Actors	Reviewer
Stakeholders and needs	Reviewer - Needs to make changes to the rating and review of a paper.
Preconditions	<ul style="list-style-type: none">• User is logged in as a reviewer.• Reviewer has previously added a rating and review for the paper.
Postconditions	The changes must be saved.
Trigger	Reviewer wants to make changes to their review/rating for a paper.
Basic flow	<ol style="list-style-type: none">1. Reviewer navigates to the review that is pending submission.2. Reviewer updates the rating and review.3. Reviewer clicks the 'Complete Review' button at the end.

Use Case 5.3 - Give review feedback	
Actors	Reviewer

Stakeholders and needs	Reviewer - Needs to see other reviews on the paper they have reviewed and discuss the reviews.
Preconditions	<ul style="list-style-type: none"> • User is logged in as a reviewer. • The paper must be reviewed by another reviewer.
Postconditions	Past review owners must be able to see feedback comments from fellow reviewers.
Trigger	Reviewer wants to discuss and provide feedback on a previous review made by another reviewer.
Basic flow	<ol style="list-style-type: none"> 1. Reviewer navigates to assigned papers. 2. Reviewer clicks the paper he has reviewed. 3. A list of all reviews and ratings for the paper is displayed. 4. Reviewer selects the review they want to discuss and clicks the "Add feedback" tab. 5. Reviewer types the feedback. 6. Reviewer clicks the 'Save' button. 7. The feedback is posted and can be viewed by the owner of the review.

3.3.2 Decision Making & Notification Management

Use Case 5.4 - Accept/Reject paper	
Actors	Conference Chair
Stakeholders and needs	Conference Chair - Needs to see all ratings and reviews for the paper and decide whether to accept or reject the paper.
Preconditions	<ul style="list-style-type: none"> • User is logged in as a chair. • Review for the paper must be completed.
Postconditions	Author must be notified of the decision made by the chair.
Trigger	Conference Chair wants to accept a paper for the conference.
Basic flow	<ol style="list-style-type: none"> 1. Chair clicks the 'Paper' tab. 2. Chair clicks on the paper pending a decision to view details. 3. A list of all ratings and reviews for the paper is displayed. 4. Chair assesses the ratings and reviews. 5. Chair decides to click the 'Accept' or 'Reject' button based on the reviews. 6. Author is notified via email of the decision for the paper.

Use Case 5.5 - View & Rate Review	
Actors	Author
Stakeholders and needs	Authors - Need to see the review provided by the reviewer on their submission and rate the review.
Preconditions	<ul style="list-style-type: none"> • User is logged in as an author. • Review for the paper must be completed.
Postconditions	None.
Trigger	Author wants to rate a review for their submission.
Basic flow	<ol style="list-style-type: none"> 1. Author navigates to the submission which has been reviewed. 2. A list of all reviews for the submission is displayed. 3. Author rates the review by clicking the 'Like' or 'Dislike' icon, next to the review.

4. Use Case Diagrams

4.1 Users Management Subsystem

4.1.1 User Side

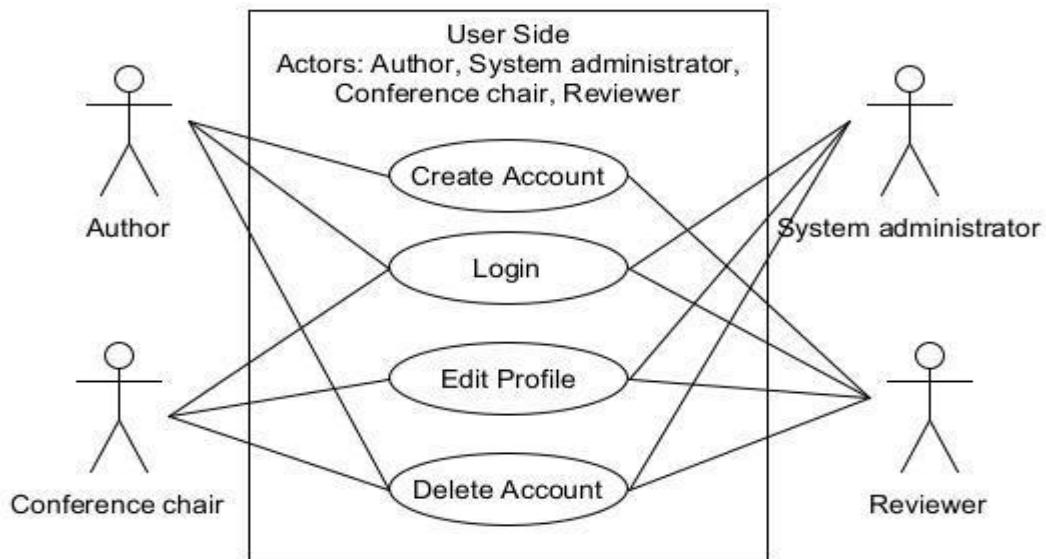


Figure 2: Use Case Diagram for User Side

4.1.2 Administrator Side

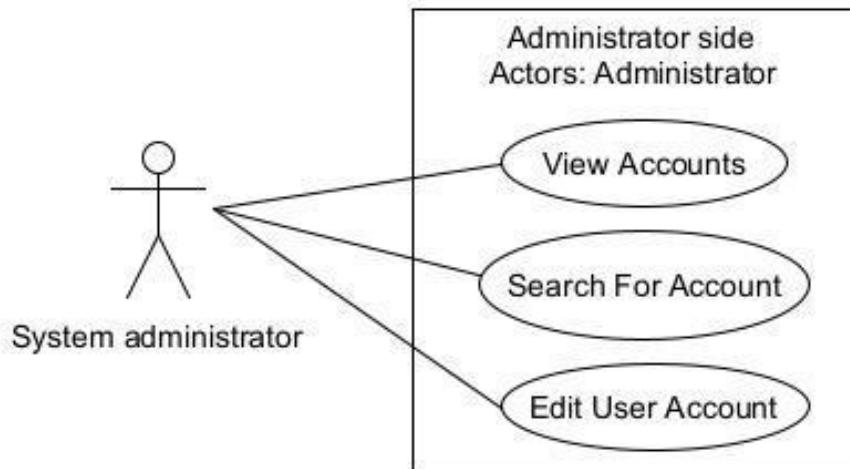


Figure 3: Use Case Diagram for System Administrator Side

4.2 Resources Management Subsystem

4.2.1 Papers Management

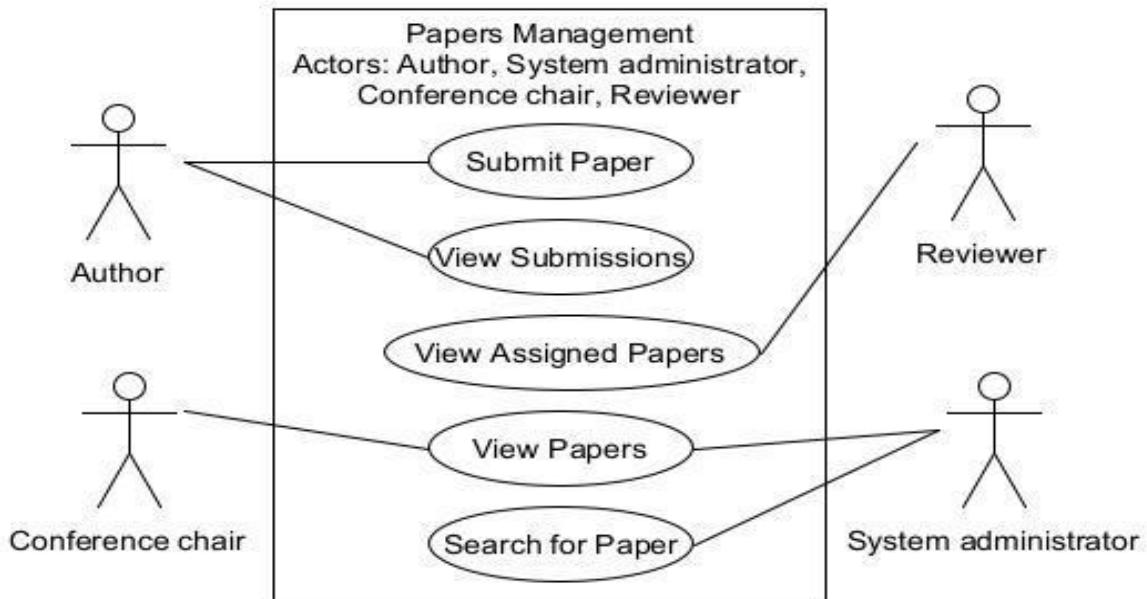


Figure 4: Use Case Diagram for Management of Papers

4.2.2 Reviews Management

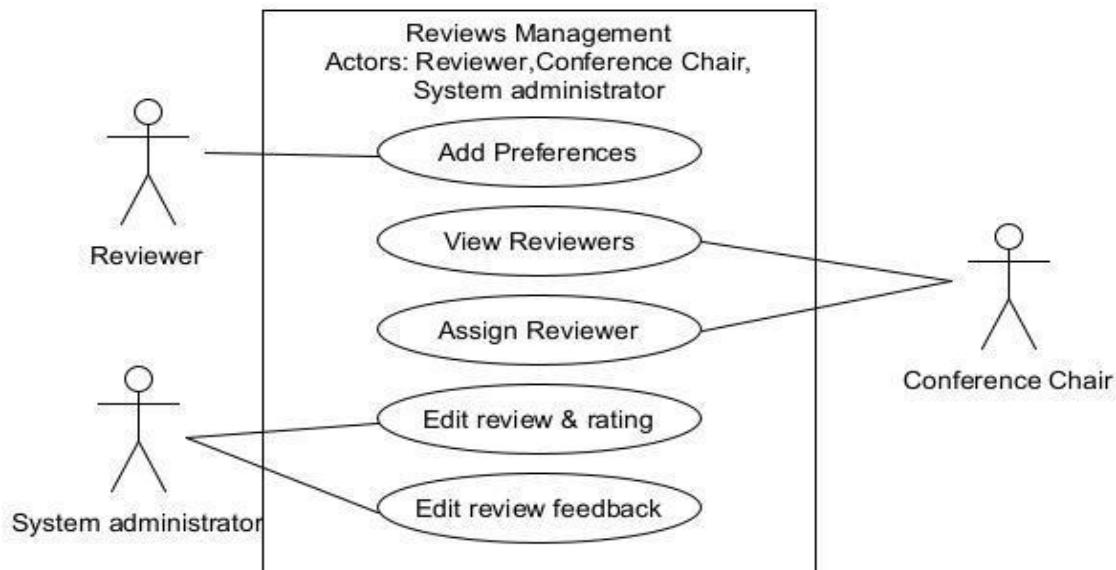


Figure 5: Use Case Diagram for Management of Reviews

4.3 Conference Activities Management Subsystem

4.3.1 Reviewing & Rating Processes Management

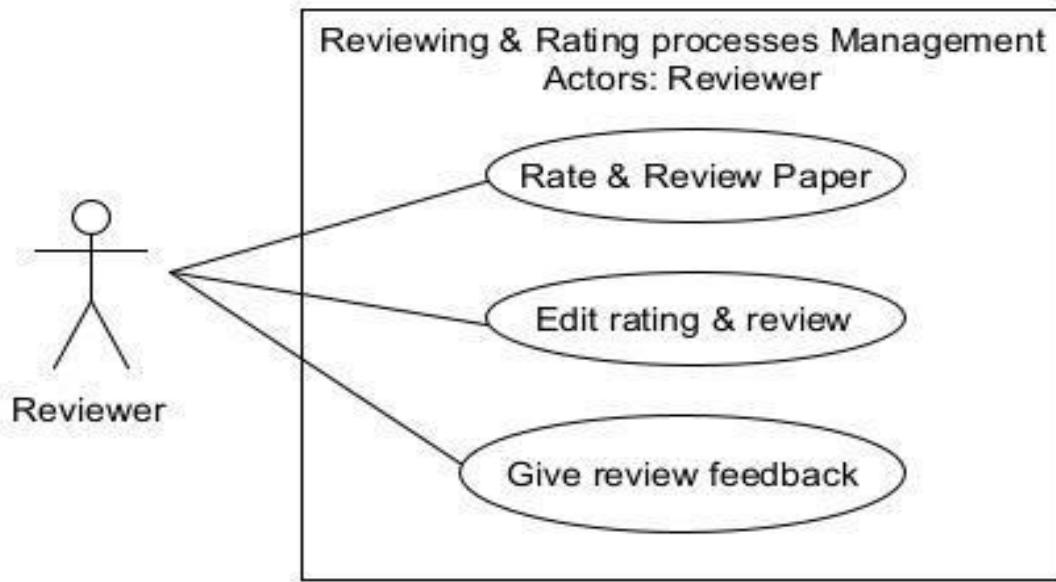


Figure 6: Use Case Diagram for Management of Reviews and Ratings

4.3.2 Decision Making & Notifying Process Management

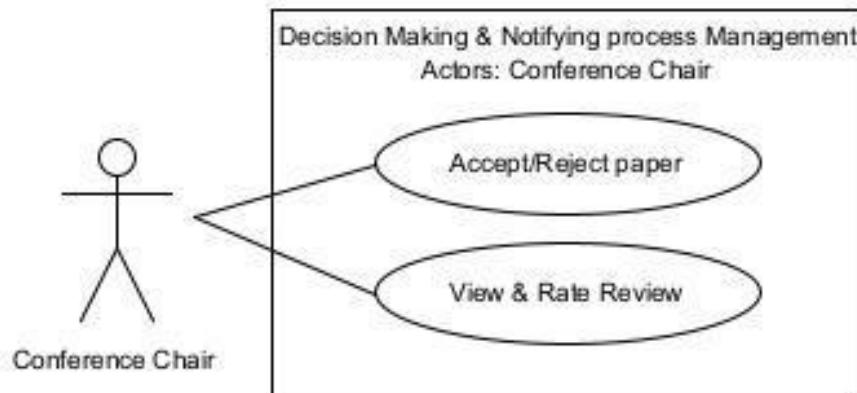


Figure 7: Use Case Diagram for Notification and Decision-Making

4.4 Use Case Diagram with <<includes>> Relationship

4.4.1 Users Management Subsystem - User Side

Use Case 1.3- Edit profile <<Includes>> Use Case 1.2 - Login

- Users can edit their profiles after they login.

Use Case 1.4 - Delete Account <<Includes>> Use Case 1.2 - Login

- Users can delete their accounts after they login.

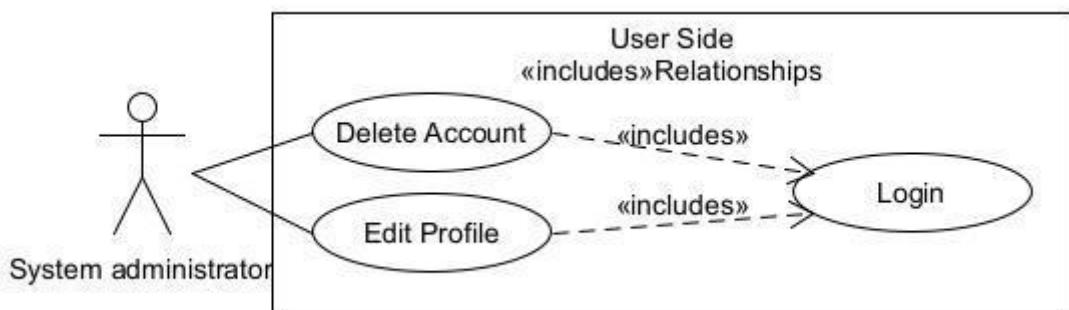


Figure 8: Use Case Diagram for Delete Account and Edit Profile – <<includes>> Relationship

4.4.2 Users Management Subsystem - Administrator Side

Use Case 2.2 - Search For Account <<Includes>> Use Case 2.1 - View All Accounts

- While viewing all accounts, the system administrator can search for a specific account.

Use Case 2.3 - Edit User Account <<Includes>> Use Case 2.2 - Search For Account

- After finding the desired account, the system administrator can edit the user account.

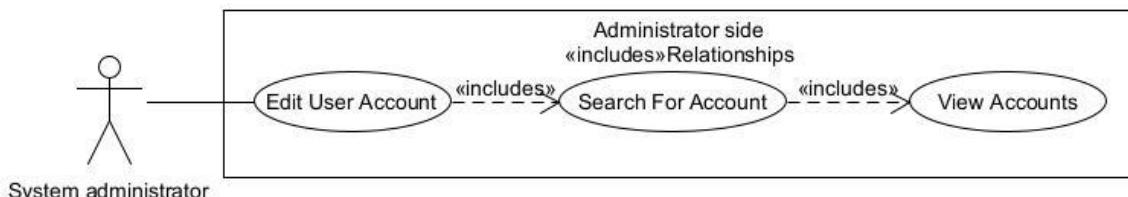


Figure 9: Use Case Diagram for Edit User Account – <<includes>> Relationship

4.4.3 Resources Management Subsystem - Papers Management

Use Case Use Case 3.5 - Search for Paper <<Includes>> 3.4 - View All Papers

- While viewing all papers, the system administrator can search for a specific paper.

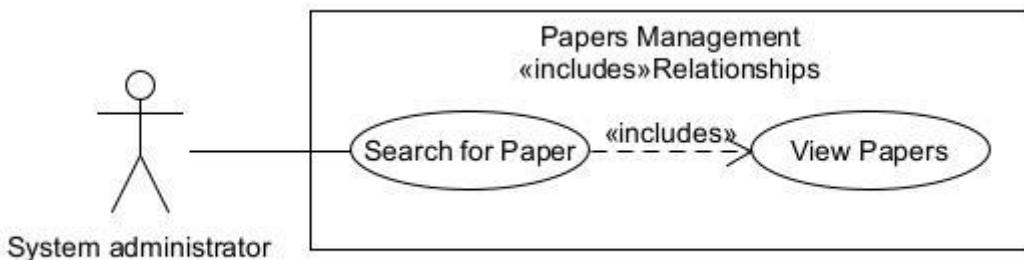


Figure 10: Use Case Diagram for Search for Paper - <<includes>> Relationship

Use Case 3.2 - View all submissions <<Includes>> Use Case 3.1 - Submit Paper

- After submitting a paper, the author can view all their submitted papers.

Use Case Use Case 3.3 - View Assigned papers <<Includes>> Use Case 3.1 - Submit Paper

- After a paper is submitted, it can be assigned to a reviewer who can then view the assigned papers.

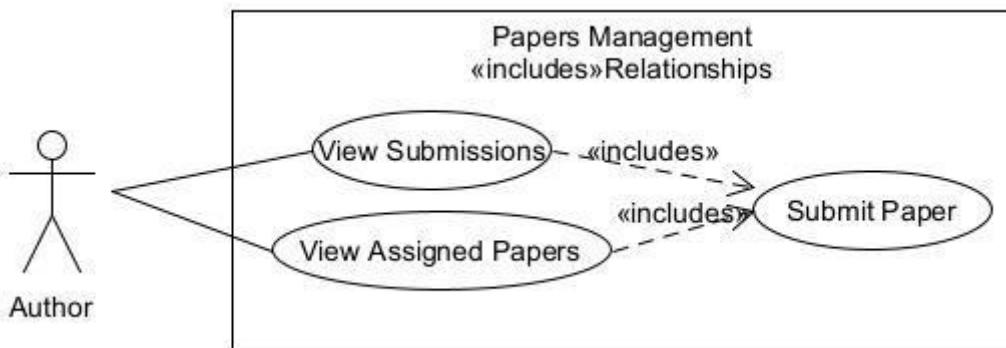


Figure 11: Use Case Diagram for View Submissions and View Assigned Papers - <<includes>> Relationship

4.4.4 Resources Management Subsystem - Reviews Management

Use Case 4.3 - Assign Reviewer <<Includes>> Use Case 4.2 - View all Reviewers

- When assigning a reviewer to a paper, the conference chair can view all reviewers' topic preferences.

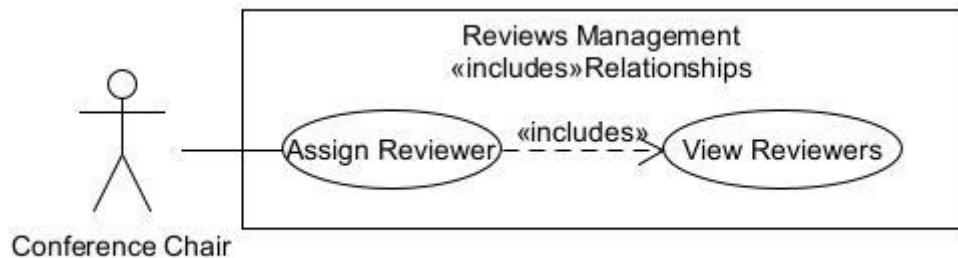


Figure 12: Use Case Diagram for Assign Reviewer - <<includes>> Relationship

Use Case 4.5 - Edit review feedback <<Includes>> Use Case 4.4 - Edit review & rating

- As the system administrator edits a review and rating, they may also need to edit the review feedback as part of the same process.

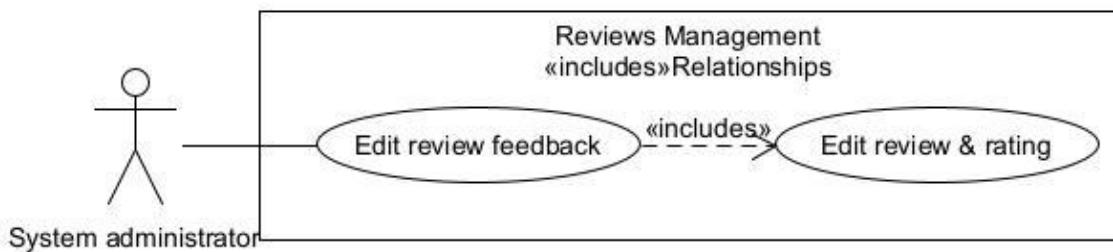


Figure 13: Use Case Diagram for Edit Review Feedback - <<includes>> Relationship

4.4.5 Reviewing & Rating Processes Management

Use Case 5.2 - Edit rating & review <<Includes>> Use Case 5.1 - Rate & Review Paper

- When a reviewer rates and reviews a paper, they might want to edit their rating and review before submitting it, so the process of editing the rating and review is included in the main rating and review process.

Use Case 5.3 - Give review feedback <<Includes>> Use Case 5.1 - Rate & Review Paper

- As a reviewer rates and reviews a paper, they can also give feedback on other reviews for the same paper, so the process of giving review feedback is included in the main rating and review process.

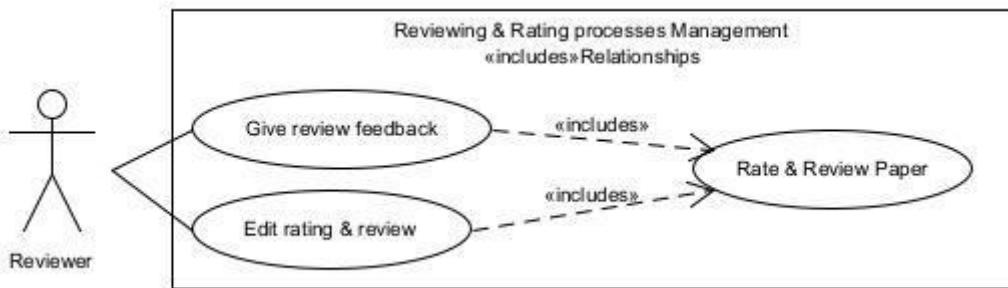


Figure 14: Use Case Diagram for Give Review Feedback and Edit Rating & Review – <<includes>> Relationship

4.4.6 Decision Making & Notifying Process Management

Use Case 5.4 - Accept/Reject paper <<Includes>> Use Case 5.5 - View & Rate Review

- When a chair accepts or rejects a paper, the author will be notified of the decision and will be able to view and rate the reviews. Thus, the process of viewing and rating the reviews is included in the accept/reject paper process.

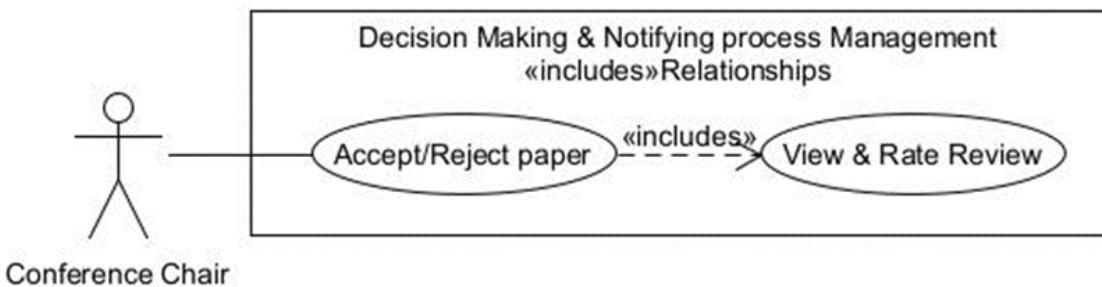


Figure 15: Use Case Diagram for Accept/Reject Paper – <<includes>> Relationship

5. Requirements Selection Techniques

During initial meetings with the client, they were flexible with the system being any type of application, namely, a mobile application, desktop application or a simple website. To determine the best solution for the requirements, these three alternatives were evaluated against each other through a scoring matrix before lo-fi prototypes were created.

5.1 Scoring Matrix – Type of Application

Evaluation Criteria		Desktop App		Web App		Mobile App	
Description	Weight %	Rating	Score	Rating	Score	Rating	Score
Ease of Use	25%	5	1.25	8	2	6.5	1.625
Resources Required	20%	5.5	1.1	7.5	1.5	4	0.8
Reliability	15%	7	1.05	6.5	0.975	8	1.2
Maintenance	25%	5.5	1.375	8	2	5.5	1.375
System Requirements	15%	8.5	1.275	9	1.35	8	1.2
Total Score		6.05		7.825		6.2	

Table 1: Scoring Matrix for Type of Application

5.1.1 Alternative A – Desktop App

Summary: Frontend is a traditional desktop application for Windows and MacOS. The client would be installed on a user's computer, while the backend will be an externally hosted Spring Boot application. Data will be hosted in a third-party database.

Ease of Use	Needing to install a client reduces the score in this category. For some users this would not be an issue, but others may require documentation to walk them through the installation process. There may also be issues with connectivity between the application and the server, depending on the network configuration of each user.
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Resources Required	Developing an app for Windows and MacOS would take a considerable amount of time. The clients would need to be created separately for each system, and all accompanying documentation would need to be created for each operating system.
Reliability	The application should be quite stable running on a personal computer. Operating system updates may cause issues, as may changes in network configuration. Forcing automatic updates in the application could help to remedy some of these issues.
Maintenance	Performing maintenance on two client applications (one for each OS) adds to the complexity and time required for the task, which reduces the score this solution receives in this category. The maintenance would also require an update system for each application as well as for the updates to be hosted and distributed.
System Requirements	The system requirements for a desktop application would be quite low because the operations required are not graphically or computationally demanding. There would be some storage space required but given the simplicity of the application's graphical needs and the size of storage mediums used it would have a negligible impact.

5.1.2 Alternative B – Web Application

Summary: A typical MVC aka BCE setup hosted on servers. The front end will be created using React while the backend will be a Spring Boot application. Data will be hosted in a third party database.

Ease of Use	A web application would require no installation and would be accessible by anyone using a device with a web browser. As long as popular UI design patterns are used there should be little to no burden on users to learn to use the system.
Resources Required	A single application can be developed for all web browsers, which means less time and money being spent on the application compared to other solutions.
Reliability	The application will run entirely on a server which makes it easier to update and ensure that all users are using an up-to-date version of the application. However, this solution loses points because it requires a stable internet connection to be used at all, where a locally run application can cache data and allow some usability when connectivity is disrupted.
Maintenance	Updating a hosted service on a handful of servers with identical hardware is far easier than pushing an update to every user and hoping that each user's software and hardware configuration will not cause issues. All users will be using the same version of the software by design so there is no need to force user updates.

System Requirements	As long as a device can run a browser their device will be capable of running the application. This solution requires no permanent storage on a user's device, so it scores higher than other options.

5.1.3 Alternative C – Mobile Application

Summary: Frontend is a native application developed for Android and for iOS. Backend is a Spring Boot application; database service is provided by a third-party company.

Ease of Use	The installation process on mobile devices is very easy and streamlined. However, the primary uses of this application do not perform well on a mobile device. Papers won't be written on a phone/tablet so they will need to be transferred before upload, reviewers will need to read a lot of text on a small screen and type meaningful feedback with an onscreen keyboard or use speech to text, and so on.
Resources Required	Much like a desktop application this mobile application will need to be developed for both Android and iOS, which means more time and money investment. There is additional investment required for the mobile application due to the restrictions Apple places on iOS development that rate this option lower than the desktop solution.
Reliability	The mobile app scores highly here because phones have fewer hardware configurations than desktops, meaning that the running environment is fairly predictable. The application can be designed so that aspects of the application can run even if internet connectivity is disrupted.
Maintenance	Due to app stores having a system in place for pushing application updates the mobile application is a strong contender in this category. However, development will still need to be split between Android and iOS systems even if the backend is entirely separated, so it is not as strong as a web application.
System Requirements	The major concern with mobile devices is the inherently limited storage compared to other devices. It will be necessary to store the application as well as papers when they are needed for reviews and other purposes. Though this storage cost isn't prohibitive it does leave this application with a lower score in this category than other solutions.

From this evaluation process, it was clear that a website application will be most suitable to meet the clients' requirements, while managing the scope and resources available. Following

on from this, the team performed a second evaluation to determine what sort of functionalities should be included in the prototype, and ultimately, the end product.

5.2 Scoring Matrix – Web-based system

Three alternatives are provided to develop the Web-based system. By comparing the pros and cons of each alternative, decision makers can better understand which option best meets their priorities, such as cost, ease of setup, ease of use, maintenance, time required, and overall adequacy. By scoring these three alternatives, stakeholders can make more informed choices that will ensure the success of the system and provide the best user experience for authors, reviewers, conference chairs, and system administrators.

Evaluation Criteria		Alternative A		Alternative B		Alternative C	
Description	Weight %	Rating	Score	Rating	Score	Rating	Score
Cost	25%	6	1.5	4	1	7	1.75
Ease of Setup	15%	6	0.9	5	0.75	7	1.05
Ease of Use	20%	5	1	7	1.4	8	1.6
Maintenance	10%	7	0.7	6	0.6	4	0.4
Time needed	10%	6	0.6	5	0.5	6	0.6
Adequacy	20%	6	1.2	8	1.6	9	1.8
Total Score		5.9		5.85		7.2	

Table 2: Scoring matrix for Web-based Systems

5.2.1 Alternative A – 3 Websites Run from a Single Server

Summary: The system has three separate websites running on a single server. The first is for authors and reviewers, the second is for conference chairs, and the third is for system admins. The author and reviewer component supports paper submissions and reviewer bidding. The conference chair component handles allocation, review management, and decision making. The system admin component handles user profile management. Emails are sent for notifications, and authors can rate reviews.

Cost	Three websites need to be developed and maintained separately, which is costlier than Alternative C, but saves the cost compared with the four websites of Alternative B.
Ease of Setup	Three websites need to be set up and configured separately which will be difficult if resources are limited compared to the other alternatives.
Ease of Use	May create confusion for the users who navigate between the sites, for instance as the authors and reviewers use the same website, it may be confusing if functionalities are not separated visibly.
Maintenance	Three separate websites need to be maintained, patched, and updated regularly which will be inconvenient for the system administrators.
Time Needed	Developing three websites will likely require less time than four websites.
Adequacy	The system covers all user roles, but the separation of components may reduce overall usability and efficiency.

5.2.2 Alternative B – 4 Websites Run from a Single Server

Summary: The system has four web sites run from a single server. The first is for authors, the second is for reviewers, the third is for conference chairs, and the fourth is for system admins. Each user type has its own dedicated component for their tasks, increasing ease of use. Emails are sent for notifications, and authors can rate reviews.

Cost	Highest cost, four separate websites require individual development and maintenance compared to alternatives A and C.
Ease of Setup	Same as alternative A, each website needs to be set up and configured separately. As a result, it will cost the most time and resources in comparison to alternatives A and C.
Ease of Use	Very easy to use, there are dedicated components for each user type, tasks are separated, and each role is more accessible.
Maintenance	Very heavy and takes a lot of time to manage upkeep. This solution will require the most maintenance in comparison to other alternatives.
Time Needed	Requires the most amount of time to develop and code four websites from the server.

Adequacy	The system covers all user roles with dedicated components.
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5.2.3 Alternative C – A Single Integrated Web Application

Summary: The system is a single web application run from a single server. It provides a unified experience for all user types and their respective tasks. The system supports paper submissions, reviewer bidding, allocation, and review management.

Cost	Requires the least cost than developing three or four web sites due to all of the code and necessary resources being in one place.
Ease of Setup	Only one application needs to be set up and configured which will require fewer resources than setting up multiple services.
Ease of Use	A unified experience for all user types makes the system simple and easy to use.
Maintenance	Updates and maintenance of integrated applications may affect several functions. The update of a certain function may cause compatibility problems with other functions which can compromise the applications availability until the problem is fixed.
Time Needed	A single integrated web application requires less time than developing three or four web sites.
Adequacy	Addresses all user requirements.

6. Prototypes

6.1 Initial Low-Fidelity Designs

After gathering all requirements, the team started work on some low-fidelity designs to brainstorm how certain functionalities should be presented. We wanted to focus on creating reusable design elements across the entire application, so to help us complete this process more efficiently we chose to focus on 3 main interfaces:

1. Login / Sign Up page
2. Author's dashboard
3. Submission of paper by author

For each design done by a team member, the project team collectively evaluated which elements of the design were useful and which elements could be improved on, if any.

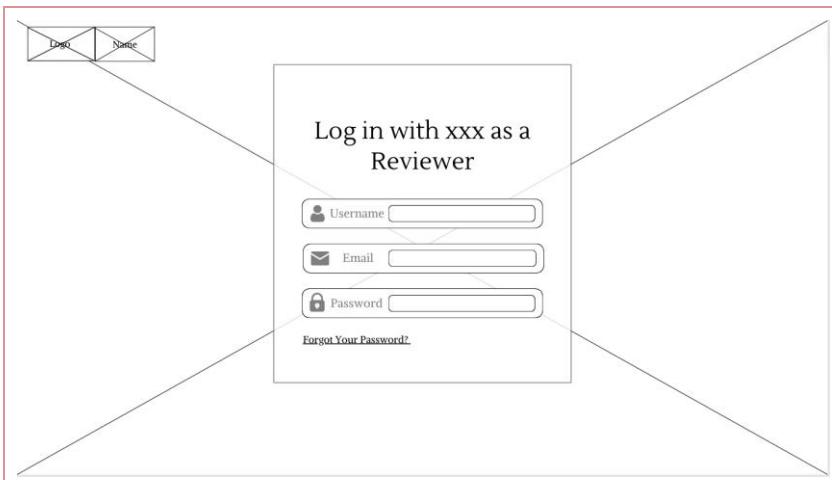
6.1.1 Login / Sign Up Page

Pros:

- Landing page includes all user types and roles.
- Simple and clean design.

Cons:

- It might be too inefficient to have individual sign in or registration methods based on the role they choose – instead just having a single approach would be much simpler.



ConferencePro

Sign in to ConferencePro

If you don't have an account, [Register here](#)

sign in

Enter email or user name

Password [Forgot password?](#)

Login

or continue with [Facebook](#) [Twitter](#) [Google](#)

ConferencePro

Sign Up to ConferencePro

If you already have an account, [Login here](#)

Sign Up

Enter Email

Role

Username

Password

Confirm Password

Register

or continue with [Facebook](#) [Twitter](#) [Google](#)

Pros:

- Clean and simple interface.
- User actions are straightforward and clear.

Cons:

- Not stated or shown in the design how users with different roles are differentiated from the beginning, compared to the previous design.



Welcome Back!

Email

Enter your email

Password

Remember Me [Forgot Password](#)

Login

Don't have an account? [Sign up](#)



Pros:

- Similar to second design.
- Clear and straightforward.

Cons:

- Differentiating the users based on their roles not shown.



Create An Account

Email

Enter your email

Username

Enter a username

Password

Confirm Password

User Type

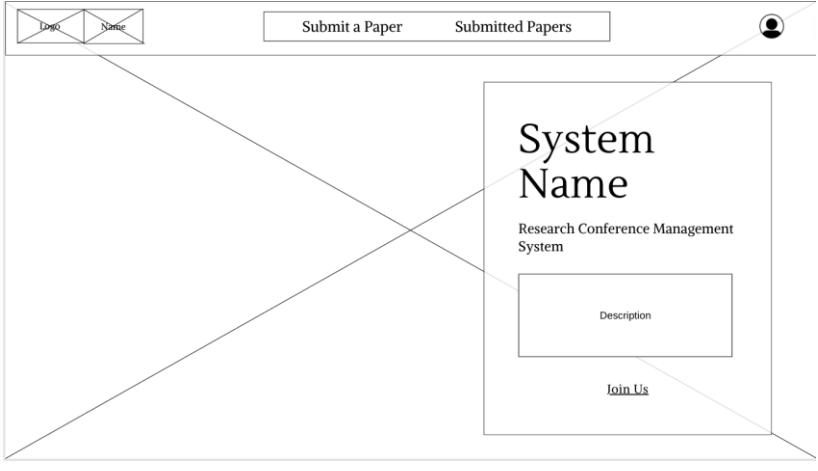
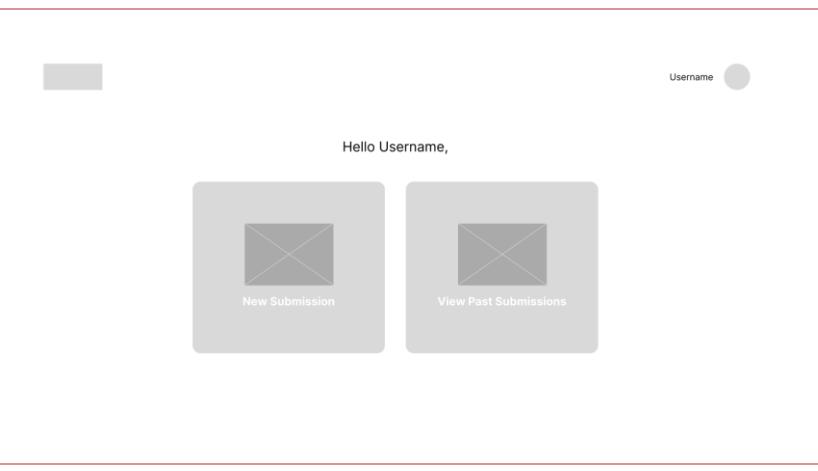
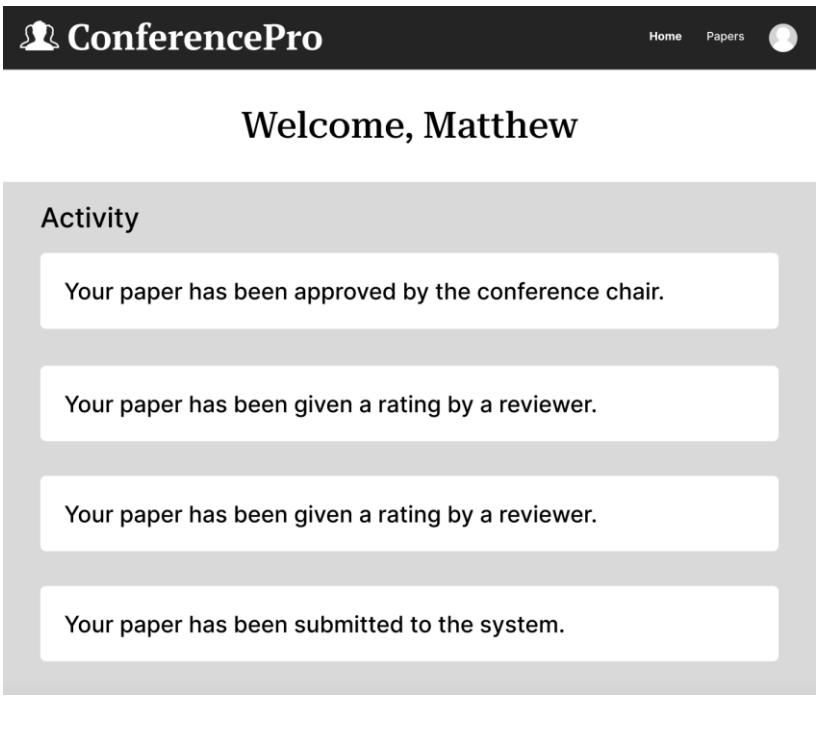
Select an option

Sign Up

Already have an account? [Login](#)



6.1.2 Author's Dashboard

	<p>Pros:</p> <ul style="list-style-type: none"> • Clean UI. <p>Cons:</p> <ul style="list-style-type: none"> • The author's main use cases are not easily identifiable. May be more helpful to have their main action buttons clearly.
	<p>Pros:</p> <ul style="list-style-type: none"> • Main actions of the system are clear and straightforward. • Clean, minimalistic UI. <p>Cons:</p> <ul style="list-style-type: none"> • Maybe too simple, the design would need to include a navigation bar to navigate between pages and actions.
	<p>Pros:</p> <ul style="list-style-type: none"> • Having an activity notification is useful for the author to have access to. <p>Cons:</p> <ul style="list-style-type: none"> • Not highlighting the author's main action which is to submit a paper.

6.1.3 Author – Submit Paper

The screenshot shows a user interface for submitting a paper. At the top, there are navigation links: 'Submit a Paper' and 'Submitted Papers'. Below these are two input fields: 'Authors' Names:' and 'Paper's Name:'. To the right of these fields is a label 'Select your Papers' Subject' followed by a large rectangular area containing a list of subjects with their names and tags.

The screenshot displays a review summary. It includes a header with 'Reviewed By' (XXXXXX), 'Score' (XXXXX), and 'Status' (Accepted). Below this, there are four items, each with a title ('Item 1', 'Item 2', 'Item 3') and a feedback message ('score plus a small feedback'). At the bottom, there is an 'Overall Feedback' section containing 'Overall feedback plus reason why paper was accepted or rejected'.

The screenshot illustrates a step-by-step submission process. On the left, four blue buttons represent the steps: 'Step 1: Format', 'Step 2: Submission', 'Step 3: Authors', and 'Step 4: Topic'. To the right of these buttons is a large, light-purple rectangular area representing the main submission form, which contains fields for 'Title' and 'Abstract'.

Pros:

- Clear fields for authors to input the information for their paper.

Cons:

- Not much of a flow is provided to guide users through the process.
- User experience - may feel more like completing a form and less of submitting a paper through a platform made specifically for a research conference.

Pros:

- Clear user actions.
- Engaging workflow for authors to be guided through the process.

Cons:

- Navigation bar needed for authors to navigate back to dashboard or to see submitted papers.



ConferencePro

Home Papers

Papers

Add Paper +

Uploaded Papers

Paper Title Goes Here

Eye icon, Ecology button, +

Download icon, Edit icon, Delete icon

Paper Title Goes Here

Eye icon, Computer Science button, +

Download icon, Edit icon, Delete icon

Paper Title Goes Here

Eye icon, Mathematics button, +

Download icon, Edit icon, Delete icon

Pros:

- Clear actions associated for each submission of paper.
 - 'Add Paper' button is eye-catching enough to provide guidance on how to start the process.

Cons:

- Design may not be engaging enough.

6.2 High-fidelity Prototypes

Based on those mock-ups, and evaluating what design elements are good to include in the final product, the final hi-fi prototype was created. This was done in Canva where it is possible to prototype the functions and navigation of the entire system. In this section, the following prototype designs will be presented:

1. Landing Page
2. Main Dashboard
3. User Flows

6.2.1 Landing Page - Sign In / Sign Up

Below is the landing page that is shown on launch of the application on a desktop. It features four different buttons to start the sign in process for the different roles.

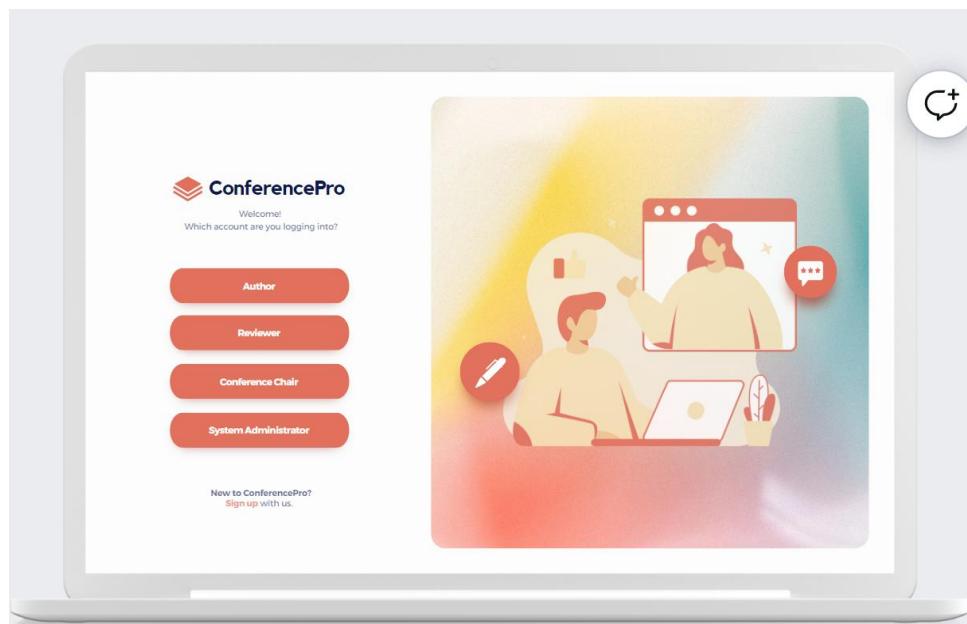


Figure 16: Landing Page for Sign In or Sign Up

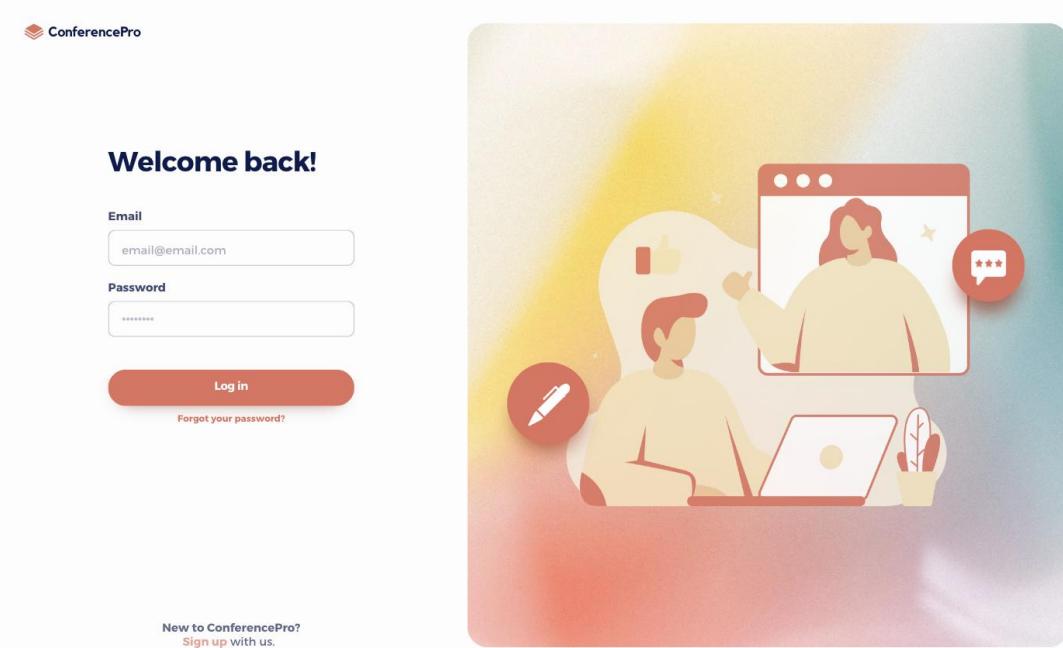


Figure 17: Sign In Option for those with Accounts

For authors and reviewers without an account, they are able to register for one by clicking the link at the bottom of the page. It is decided that Conference Chairs and System Administrator access are granted manually and cannot be registered for.

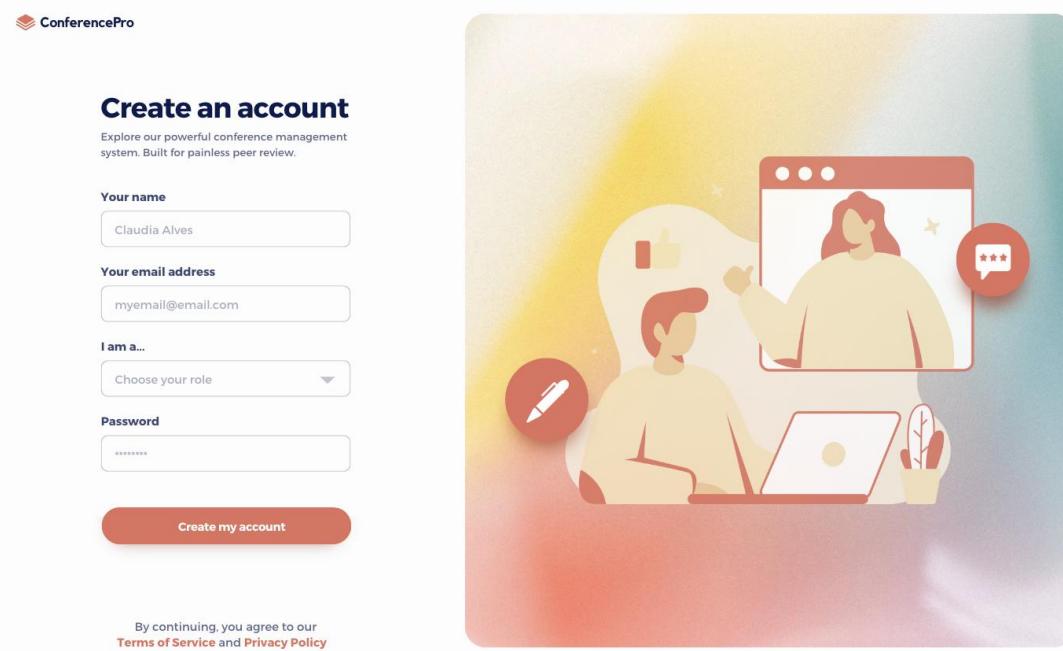


Figure 18: Creating New Accounts for Authors and Reviewers

6.2.2 Main Dashboard - For Each User

The team thought that it was important for the application, ConferencePro, to have a consistent branding in terms of colour palette and design elements throughout the website - no matter which type of user is signed in. It should be noted that the team found that it was important to include the main functions and activities in the dashboard in an aesthetically pleasing manner that would engage the user, without overwhelming them with too much information.

Below are screenshots of the different views depending on the user's assigned role.

6.2.2.1 Authors Dashboard

They are able to have a quick glance at their activities for updates on their papers, create a new submission, or view their past submissions.

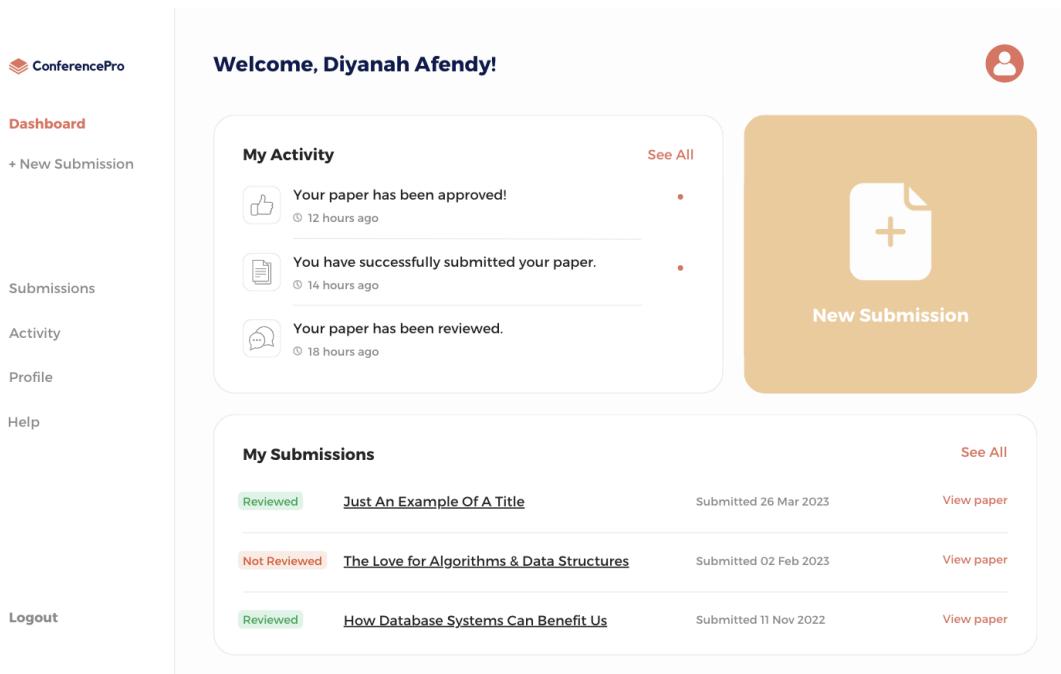


Figure 19: Author's Dashboard

6.2.2.2 Reviewer's Dashboard

Their current progress is displayed clearly. Their main actions include editing their preferences and viewing papers assigned to them. Reviewers can view their assigned papers and leave a review and rating outlining their thoughts on it.

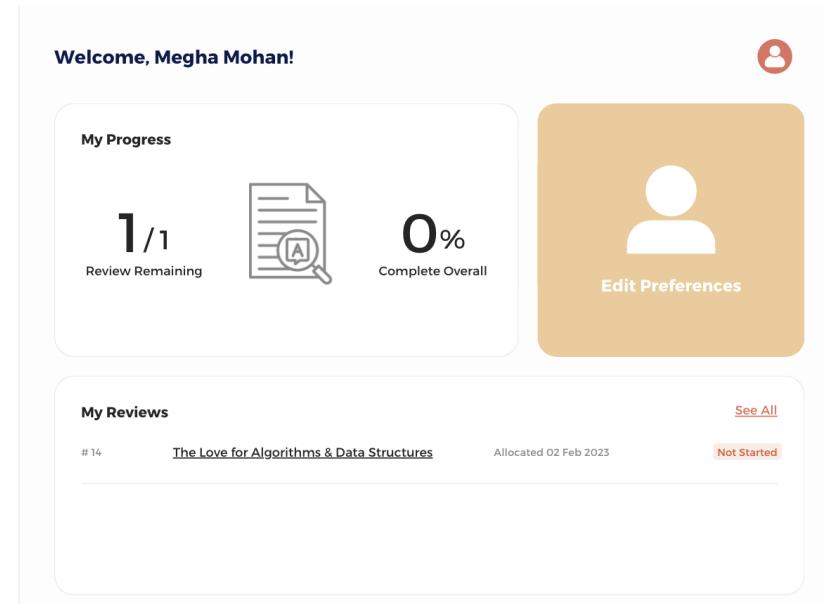


Figure 20: Reviewer's Dashboard

6.2.2.3 Conference Chair's Dashboard

Similarly, their current progress is clearly presented. Conference chairs can assign papers to reviewers and accept or reject assigned papers that have been reviewed. They are also able to view a list of reviewers and their specialities and workloads.

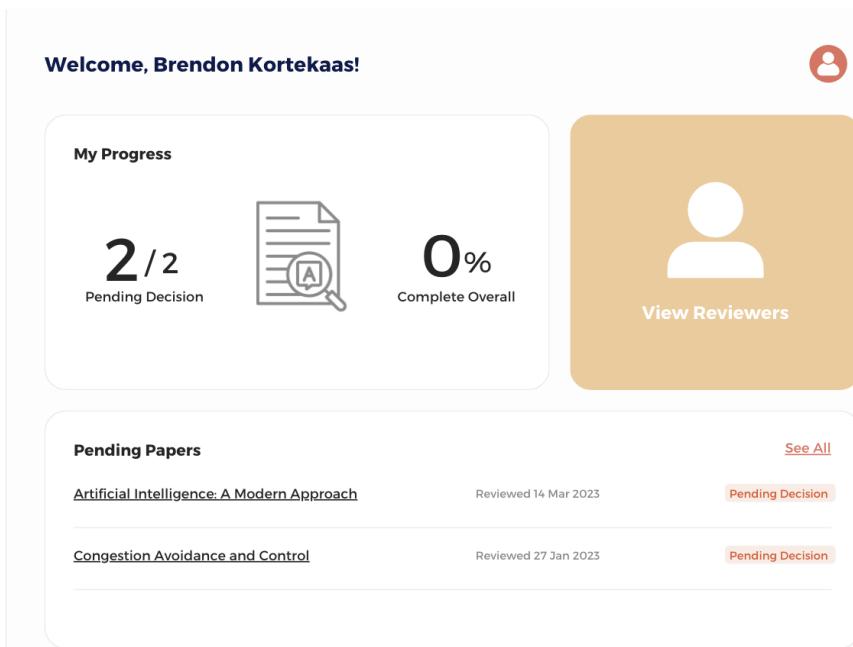


Figure 21: Conference Chair's Dashboard

6.2.2.4 System Administrator's dashboard

System Administrators have control over all aspects of the system. From the dashboard, they are able to have a quick glance at all users and popular topics currently in the database. The side navigation tabs can be clicked on to view and manage users, papers and reviews.

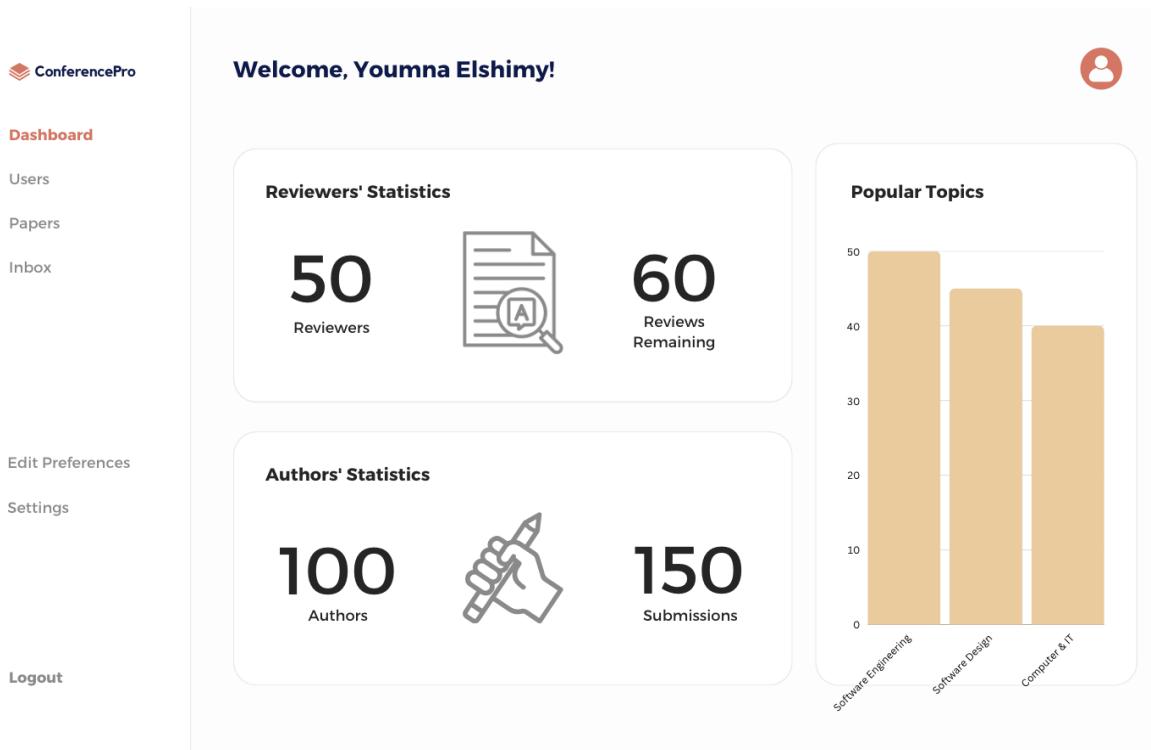


Figure 22: System Administrator's Dashboard

6.3 User Flow

Each user's flow can be viewed through the screenshots are provided in the [Appendix](#).

6.3.1 Authors' UI

Flowing on from the dashboard, when an Author clicks 'New Submission', it brings them to some general information about the process of submitting their papers. Clicking 'Start Workflow' will guide the Author through the steps needed to successfully submit a paper. They are also able to have a quick glance of the steps included by the vertical navigation menu on the left – this is to help with information processing. It will also help the user feel less overwhelmed with the entire process.

If they were to click on a paper that has been marked 'Reviewed', the user will be navigated to a page where they are able to rate the overall review they have received by the Reviewer(s) assigned to their submission.

6.3.2 Reviewers' UI

Flowing on from the dashboard, a Reviewer is able to click 'Edit Preferences'. This leads them to a page where they can edit their basic information and manage their preferences associated with the papers they will be assigned. This includes selecting topics that align with their specialty to assist with the automated assignment, and they can also set the maximum number of papers they can review.

Clicking 'View All Papers' brings them to a page listing out all of their assigned papers. Selecting a paper then brings a Reviewer to a page with all of the information associated with the assigned paper where they can confirm whether or not they would like to proceed with reviewing it.

6.3.3 Conference Chairs' UI

Flowing on from the dashboard, the user is able to click 'View Reviewers'. This leads them to a page which shows all the reviewers registered for the conference. The user can view each reviewer's specialty and their workload.

Clicking on the 'Papers' tab brings the user to a page showing all the papers in the system. The page contains two tabs: assigned and unassigned. Assigned papers consist of those assigned to reviewers where they are either accepted, rejected or pending decision. Clicking on a paper that is pending a decision allows the user to view details about the paper including reviews and ratings given to it by reviewers. The user is able to use these details to then accept or reject the paper by using the buttons at the bottom of the page. Going back to the papers page, if the user clicks on an unassigned paper, they are taken to a page showing further details on the paper. If the user wishes to assign the paper to reviewers, they can click on the 'View Reviewers' button at the bottom of the page. The user is then taken to a page showing all users who are available to review the paper, ranking them by most suitable. The user can select desired reviewers and then confirm assignment by clicking on the 'Confirm' button at the bottom of the page.

6.3.4 System Admins' UI

Flowing on from the dashboard, the admin is able to use the side navigation bar to access different pages. Clicking on the users' tab leads to a page showing all the users in the system. This page contains details on each user as well as an option to edit them. Clicking on the edit button lets the admin change the user's name, role, and email. Going back to the side navigation bar, clicking on the papers tab leads to a page showing all papers that have been submitted to the system. The page contains details on each paper as well as an option to edit reviews. Clicking on the edit reviews option allows the admin to edit all the details of each review.

8. Design Principles Review

8.1 Product Design Principles

Feasibility	<p>To determine feasibility, the team needs to ensure that the design can be realised. This design is technically very possible, given the fact that there is no existing architecture, infrastructure, or systems the team has to be mindful of.</p> <p>As a web application it provides the freedom to implement the simple design elements on the frontend, as well as host it on a third-party web application which supports its overall feasibility.</p>
Adequacy	<p>The prototype created has met all of the requirements and use cases provided by the client. In this case, it can be determined that the design supports the following:</p> <ul style="list-style-type: none">• System Administrators can:<ul style="list-style-type: none">◦ Support and manage different types of users and user profiles• Authors can:<ul style="list-style-type: none">◦ Submit papers to a conference◦ Include multiple authors associated to the paper◦ Submit more than one paper◦ See the reviews on their paper and rate the review• Reviewers can:<ul style="list-style-type: none">◦ Bid for the papers they prefer to review - this was implemented through the topics and domains they have chosen in their preferences◦ Be allocated papers automatically based on their chosen topics and matching these up to papers submitted◦ Manage their preferred workload◦ Submit their rating and review◦ See other reviews on the same paper and add comments to discuss• Conference chairs can:<ul style="list-style-type: none">◦ Help allocate papers to reviewers if a clear match was not found automatically◦ View reviews and ratings◦ Decide whether a paper should be accepted or rejected after the reviewing process◦ View a list of accepted and rejected papers◦ Notify the authors via email

	On top of that, the design ensures a clean and easy-to-use interface which supports all stakeholders and contributes to the success of the project.
Beauty & Simplicity	<p>The product design promotes beauty and simplicity, as the application has been designed with the user in mind.</p> <p>Different design patterns have been considered and implemented during prototyping so that the system is intuitive and simple to use. Intricate, complex features and overcrowding has been avoided, by ensuring main functionalities for each page are clearly accessible and visible. The team has ensured to create powerful designs with minimum complexity that solve maximum use cases. Furthermore, the team has also considered adaptability to new requirements and simplicity for testing while designing the product.</p>
Economy	<p>The core set of functions and requirements set out by the client have been narrowed down and defined very clearly. This allowed for the team to have a good sense of the end users and the stakeholders, which lowers risks and reduces time spent on preliminary research. This helped in creating feasible and economical product designs, and contributed to the overall success of the project, by decreasing overall costs associated with product designing.</p>

Table 3: Product Design Principles

9. References

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10. Appendix

Authors' UI

The screenshot displays two pages of the ConferencePro Authors' User Interface.

Top Page (Dashboard):

- Header:** Welcome, Diyanah Afandy!
- Left Sidebar:** ConferencePro logo, Dashboard, + New Submission, Submissions, Activity, Profile, Help, Logout.
- Activity Section:** My Activity (Your paper has been approved! 12 hours ago, You have successfully submitted your paper. 14 hours ago, Your paper has been reviewed. 18 hours ago). See All link.
- New Submission Section:** Large orange button with a white document icon containing a plus sign, labeled "New Submission".
- Submissions Section:** My Submissions (Reviewed: Just An Example Of A Title, Submitted 26 Mar 2023, View paper; Not Reviewed: The Love for Algorithms & Data Structures, Submitted 02 Feb 2023, View paper; Reviewed: How Database Systems Can Benefit Us, Submitted 11 Nov 2022, View paper). See All link.

Bottom Page (New Submission):

- Header:** New Submission
- Left Sidebar:** ConferencePro logo, Dashboard, + New Submission (highlighted in red), Step 1: Track, Step 2: Title & Abstract, Step 3: Authors, Step 4: Topics.
- Content:**
 - IMPORTANT INFORMATION:**
 - Paper titles should be **Title Case Format** (example: The End of History?)
 - Please check abstracts for errors before submitting and ensure that correct email addresses are provided for authors.
 - Authors must use the same email address during the submissions process and when registering for the PSA Conference.
 - Need Guidance? On the left-hand side of your profile dashboard there is a Help section - click 'Author Articles' for submission guides. Contact details are also provided if you require any further assistance.
 - Please read the Terms & Conditions before proceeding.**
 - I have read and agree to the Terms & Conditions
 - Start Workflow** button (red rounded rectangle).

 ConferencePro

[Dashboard](#)

[+ New Submission](#)

**Step 1:
Track**

[Step 2:
Title & Abstract](#)

[Step 3:
Authors](#)

[Step 4:
Topics](#)

Track

Which track would you like to submit to?

Open Call for Paper Submissions
Closes on 22nd April 2023

Specialist Group Submissions
Not opened yet

[Next ➔](#)

 ConferencePro

[Dashboard](#)

[+ New Submission](#)

**Step 1:
Track**

**Step 2:
Title & Abstract**

[Step 3:
Authors](#)

[Step 4:
Topics](#)

Title & Abstract

Title *

Abstract *

[Next ➔](#)

 ConferencePro

Dashboard

+ New Submission

Step 1:
Track

Step 2:
Title & Abstract

Step 3:
Authors

Step 4:
Topics

Authors

Title	First Name	Last Name	Institution
Dr	Marie	Avelino	University of New Mexico

Add another author

Next ➔

 ConferencePro

Dashboard

+ New Submission

Step 1:
Track

Step 2:
Title & Abstract

Step 3:
Authors

Step 4:
Topics

Topics

Please select a maximum of two (2) topics from the list below.

TOPICS	10 Topics
<input type="checkbox"/> Software Engineering <input type="checkbox"/> Computer Science <input type="checkbox"/> Database Systems <input type="checkbox"/> Computer & IT <input type="checkbox"/> Virtual Reality <input type="checkbox"/> Artificial Intelligence <input type="checkbox"/> Data Mining <input type="checkbox"/> Software Design <input type="checkbox"/> Algorithms & Data Structures <input type="checkbox"/> Information Systems	

Submit

 ConferencePro

[Dashboard](#)

[+ New Submission](#)

[Submissions](#)

[Activity](#)

[Profile](#)

[Help](#)

[Logout](#)

Your paper has been reviewed!

[Just An Example Of A Title](#)

Our Reviewers have left their ratings and feedback. You can rate the review accordingly.

Reviewer's Name	Rating Given	Review Provided	Rate the Review
Youmna Elshimy	2	This was very comprehensive and introduced themes that are relevant and timely. Could improve on staying objective.	 
Megha Mohan	3	Very solid work. Definitely would be of interest to delegates at this conference.	 

[Back to Dashboard](#)

 ConferencePro

[Dashboard](#)

[+ New Submission](#)

[Submissions](#)

[Activity](#)

[Profile](#)

[Help](#)

[Logout](#)

Your paper has been reviewed!

Our Reviewers have left their ratings and feedback. You can rate the review accordingly.

Reviewer's Name	Rating Given	Review Provided	Rate the Review
Youmna Elshimy	2	This was very comprehensive and introduced themes that are relevant and timely. Could improve on staying objective.	 
Megha Mohan	3	Very solid work. Definitely would be of interest to delegates at this conference.	 

[Back to Dashboard](#)

Reviewers' UI

 ConferencePro

Dashboard

- + New Submission
- Submissions
- Activity
- Profile
- Help
- Logout

Welcome, Diyanah Afendy!



My Activity

Your paper has been approved! See All
🕒 12 hours ago

You have successfully submitted your paper. See All
🕒 14 hours ago

Your paper has been reviewed. See All
🕒 18 hours ago

New Submission



My Submissions

Reviewed	Title	Submitted	Action
Reviewed	Just An Example Of A Title	Submitted 26 Mar 2023	View paper
Not Reviewed	The Love for Algorithms & Data Structures	Submitted 02 Feb 2023	View paper
Reviewed	How Database Systems Can Benefit Us	Submitted 11 Nov 2022	View paper

 ConferencePro

Dashboard

- Edit Preferences
- My Reviews
- Help
- Logout

Welcome, Megha Mohan!



My Progress

1 / 1 Review Remaining  0% Complete Overall

Edit Preferences

My Reviews

See All

#	Title	Allocated	Status
14	The Love for Algorithms & Data Structures	Allocated 02 Feb 2023	Not Started

 ConferencePro

Dashboard

[Edit Preferences](#)

My Reviews

My Preferences

Title	First Name	Last Name	Institution / Organisation
Mrs	Megha	Mohan	University of New Mexico

Topics
Choose topics that match your area of expertise. These topics will be used to assign you submissions to review.

Computer Science Software Engineering Database Systems Computer & IT
 Virtual Reality Artificial Intelligence Data Mining Software Design
 Algorithms & Data Structures Information Systems

Maximum no. of papers to review:

[Save Preferences](#)

 ConferencePro

Dashboard

Edit Preferences

[My Reviews](#)

My Reviews

#	Topic	Allocated	Status
14	The Love for Algorithms & Data Structures	02 Feb 2023	Not Started

 ConferencePro

Dashboard
Edit Preferences
My Reviews
Assigned Paper

Assigned Paper

Not Started

Title
The Love for Algorithms & Data Structures

Authors
1. Dr. Diyanah Afendy - University of New Mexico
1. Prof. Matthew Kolega - University of Wollongong

Abstract
Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas lobortis in nibh ut dictum. Nam consequat rhoncus urna vitae porta. Duis a cursus lectus, non convallis eros.

Topic Areas
Software Engineering Algorithms & Data Structures

Submission Date
02 February 2023

Submission ID
14

Do you wish to review or decline this submission?

Review **Decline**

 ConferencePro

Dashboard
Edit Preferences
My Reviews
Assigned Paper
Rating & Review

Rating & Review

Overall Merit *
How solid is the presented work? Is the evaluation methodology appropriate? Does the data seem accurate?
How appropriate is this submission for this conference? How easy is it to understand the topics presented?

3 – Strongly accept	0 – Borderline	-1 – Weakly reject
2 – Accept		-2 – Reject
1 – Weakly accept		-3 – Strongly reject

3 2 1 0 -1 -2 -3

Detailed Comments for the Authors *

Once you complete, you can't edit.

Complete Review **Save & Close**

 ConferencePro

Dashboard

Edit Preferences

My Reviews

Assigned Paper

Rating & Review

View Past Reviews

Thank you for submitting!

#14 The Love for Algorithms & Data Structures Dr. Diyanah Afandy
Prof. Matthew Kolega Reviewed

Here are some of the other reviews on this paper. Feel free to comment on any.

Reviewer's Name	Rating Given	Review Provided	Action
Youmna Elshimy	2	This was very comprehensive and introduced themes that are relevant and timely. Could improve on staying objective.	Add feedback

[Back to Dashboard](#)

 ConferencePro

Dashboard

Edit Preferences

My Reviews

Assigned Paper

Rating & Review

View Past Reviews

Thank you for submitting!

Here are some of the past reviews on this paper. Feel free to comment on any.

Add feedback

Date 28/03/2023

Reviewer Megha Mohan

Comments

I agree with your review and felt that it needed to be more concise, otherwise I also enjoyed the themes presented.

[Save](#) [Cancel](#)

[Back to Dashboard](#)

Conference Chairs' UI

 ConferencePro

Welcome, Brendon Kortekaas!



Dashboard

Reviewers

Papers

Inbox

Help

Logout

My Progress

2 / 2
Pending Decision



0%
Complete Overall

Pending Papers

Artificial Intelligence: A Modern Approach Reviewed 14 Mar 2023 

Congestion Avoidance and Control Reviewed 27 Jan 2023 

See All



 ConferencePro

Reviewers



Dashboard

Reviewers

Papers

Inbox

Help

Logout

Name	Specialties	Workload	Status
Xingyu Gao	• Computer Science • Virtual Reality	8/8	Full Workload
Youmna Elshimy	• Artificial Intelligence • Computer & IT	7/9	Available for Assignment
Diyannah Afandy	• Data Mining	6/8	Available for Assignment
Hibah Jasim	• Software Design	7/10	Available for Assignment



Papers



Assigned Unassigned

Dashboard

Reviewers

Artificial Intelligence: A Modern Approach

Reviewed 3 Feb 2023

Pending Decision

Papers

Inbox

Congestion Avoidance and Control

Reviewed 27 Jan 2023

Pending Decision

Security, Authentication, and Public Key Systems

Reviewed 14 Jan 2023

Accepted

Structure and Interpretation of Computer Programs

Reviewed 11 Jan 2023

Rejected

Help

Logout



Papers



Assigned Unassigned

Dashboard

Reviewers

Compilers: Principles, Techniques and Tools

Pending Assignment

Papers

Inbox

A Fast File System for UNIX

Pending Assignment

Help

Logout

 ConferencePro

Assigned Paper

Pending Decision

Title: Artificial Intelligence: A Modern Approach

Authors: 1. Dr. Megha Mohan - University of Sydney

Abstract:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas lobortis in nibh ut dictum. Nam consequat rhoncus urna vitae porta. Duis a cursus lectus, non convallis eros.

Reviewer's Name: Matthew Kolega

Rating Given: 2

Review Provided: This was very comprehensive and introduced themes that are relevant and timely. Could improve on staying objective.

Accept

Decline

 ConferencePro

Assigned Paper

Pending Decision

Title: Artificial Intelligence: A Modern Approach

Authors: 1. Dr. Megha Mohan - University of Sydney

Abstract:

Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas lobortis in nibh ut dictum. Nam consequat rhoncus urna vitae porta. Duis a cursus lectus, non convallis eros.

Reviewer's Name: Matthew Kolega

Rating Given: 2

Review Provided: This was very comprehensive and introduced themes that are relevant and timely. Could improve on staying objective.

Paper Has Been Accepted

Author will be automatically notified through email.

Accept

Decline

 ConferencePro

Assigned Paper



Paper Details

Title: Artificial Intelligence: A Modern Approach

Authors: 1. Dr. Megha Mohan - University of Sydney

Abstract: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas lobortis in nibh ut dictum. Nam consequat rhoncus urna vitae porta. Duis a cursus lectus, non convallis eros.

Topic Areas: Artificial Intelligence

Submission Date: 03 February 2023

Action Confirmation

A large red circle with a white checkmark is displayed in the center.

Paper Has Been Declined

Author will be automatically notified through email.

Accept **Decline**

Navigation

- Dashboard
- Reviewers
- Papers
- Inbox
- Help
- Logout

 ConferencePro

Unassigned Paper



Paper Details

Title: Artificial Intelligence: A Modern Approach

Authors: 1. Dr. Megha Mohan - University of Sydney

Abstract: Lorem ipsum dolor sit amet, consectetur adipiscing elit. Maecenas lobortis in nibh ut dictum. Nam consequat rhoncus urna vitae porta. Duis a cursus lectus, non convallis eros.

Topic Areas: Artificial Intelligence

Submission Date: 03 February 2023

Action Confirmation

Do you wish to assign this paper?

View Reviewers

Navigation

- Dashboard
- Reviewers
- Papers
- Inbox
- Help
- Logout

 ConferencePro

Dashboard

Reviewers

Papers

Inbox

Help

Logout

Assign Reviewers to Paper

← Back

Name	Specialties	Workload	Status	Assign
Youmna Elshimy	• Artificial Intelligence • Computer & IT	7/9	Available for Assignment	<input type="checkbox"/>
Diyanah Afendy	• Data Mining	6/8	Available for Assignment	<input type="checkbox"/>
Hibah Jasim	• Software Design	7/10	Available for Assignment	<input type="checkbox"/>

Confirm

 ConferencePro

Dashboard

Reviewers

Papers

Inbox

Help

Logout

Assign Reviewers to Paper

← Back



Paper Has Been Assigned

Reviewer(s) will be notified.

Assign

System administrators' UI

 ConferencePro

Welcome, Youmna Elshimy! 

Dashboard

Users
Papers
Inbox

Edit Preferences
Settings

Logout

Reviewers' Statistics

50 Reviewers 

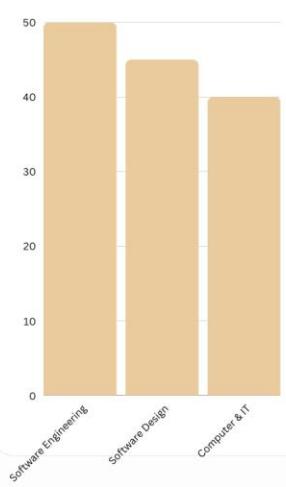
60 Reviews Remaining

Authors' Statistics

100 Authors 

150 Submissions

Popular Topics



Topic	Count
Software Engineering	50
Software Design	45
Computer & IT	40

 ConferencePro

View All Users 

Users

Dashboard
Papers
Inbox

Edit Preferences
Settings

Logout

Name	Role	Email	# of Submissions / Reviews	Edit	Details
Brendon Kortekaas	Author	bk996@uowmail.edu.au	20	Edit	Details
Diyannah Afendy	Reviewer	ndba961@uowmail.edu.au	66	Edit	Details
Hibah Jasim	System Administrator	hj909@uowmail.edu.au	N/A	Edit	Details
Matthew Kolega	Conference Chair	mk711@uowmail.edu.au	N/A	Edit	Details
Megha Mohan	Author	mm411@uowmail.edu.au	32	Edit	Details
Xingyu Gao	Reviewer	xg849@uowmail.edu.au	55	Edit	Details
Youmna Elshimy	System Administrator	ymfzy445@uowmail.edu.au	N/A	Edit	Details

1 2 3 4 ... 23

ConferencePro

Dashboard

Users

Papers

Inbox

Edit Preferences

Settings

Logout

View All Users

ymfzy445@uowmail.edu.au

X Sort Filter

Name	Role	Email	# of Submissions / Reviews
Youmna Elshimy	System Administrator	ymfzy445@uowmail.edu.au	N/A

Edit Details

1

ConferencePro

Dashboard

Users

Papers

Inbox

Edit Preferences

Settings

Logout

View All Users

Edit User

User's Details

Name
Younma Elshimy

Role
System Administrator

Email
ymfzy445@uowmail.edu.au

Save Cancel

 ConferencePro

View All Users



Dashboard
Users
Papers
Inbox

Edit Preferences
Settings

Logout



Success Message

Your changes have been successfully saved!

X

Details

 ConferencePro

View Submitted Papers



Dashboard
Users
Papers
Inbox

Edit Preferences
Settings

Logout

Search

Sort Filter

Author(s)	Reviewer(s)	Title	Subject	Submission Date	
Brendon Kortekaas	Diyanah Afandy	Search-based software engineering: Trends, techniques and applications	<ul style="list-style-type: none">Software EngineeringComputer Science	14/03/2023	Edit Reviews Details
Hibah Jasim	Matthew Kolega	Improving software design reasoning-A reminder card approach	<ul style="list-style-type: none">Software DesignSoftware Engineering	14/03/2023	Edit Reviews Details
Megha Mohan	Xingyu Gao	Computer science: Beyond the data deluge	<ul style="list-style-type: none">Computer ScienceInformation Systems	01/03/2023	Edit Reviews Details

1 2 3 4 ... 50

ConferencePro

Dashboard
Users
Papers
Inbox
Edit Preferences
Settings
Logout

View Submitted Papers

Computer science: Beyond the data deluge

Sort Filter

Author(s)	Reviewer(s)	Title	Subject	Submission Date	
Megha Mohan Matthew Koelga	Xingyu Gao Yousma Elshimy	Computer science: Beyond the data deluge	• Computer Science • Information Systems	01/03/2023	Edit Reviews Details

1 2 3 4 ... 50

ConferencePro

Dashboard
Users
Papers
Inbox
Edit Preferences
Settings
Logout

View Submitted Papers

Edit Reviews

Reviews' Details

Date 10/03/2023
Reviewer Xingyu Gao
Score 2

Comments

The paper is well written. However, there are some mistakes in the methods and the data used. The authors need to also elaborate more on the method used for the development of the conference systems.

Authors' Rating for the Review 3

Save Cancel

ConferencePro

View Submitted Papers

Dashboard

Users

Papers

Inbox

Edit Preferences

Settings

Logout

Filter

X

Details



Success Message

Your changes have been successfully saved!