CS5500 - MSD Phase 2  
Initial Project Design - Use cases

short line

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# REVIEW COMMITTEE SYSTEM

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| **Use-case 1.1: USER LOGIN** | |
| **Summary:** | The User logs into the review committee system to find members for a Conference’s Program Committee or Journal’s Editorial Board in order to review published papers |
| **Actor(s):** | Program Committee Chairs (User), Associate Editors(User), and System |
| **Pre-condition:** | The System must be fully configured |
| **Trigger:** | The User wants to search authors to be on the Program Committee/Editorial Board for reviewing papers/articles published on particular topics |
| **Scenario:** | |
| 1. The User opens Review Committee System’s application. | |
| 2. The User enters his/her “username”. | |
| 3. The User enters his/her “password”. | |
| 4. System validates the username and password entered by the User. | |
| 5. If username and password are authentic   * System navigates the User to the Search page.   Else   * System generate ‘invalid username/password’ message. | |
| **Exception:** | |
| * System Error - report to admin | |
| **Priority:** | High: Need to be implemented before other features |
| **When Available:** | First increment |
| **Frequency of use:** | Frequent |

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| **Use-case 1.2: FIND AUTHORS** | |
| **Summary:** | The User finds researchers/authors for the Program Committee/Editorial Board based on several criteria to review published papers. |
| **Actor(s):** | Program Committee Chairs (User), Associate Editors (User) and System |
| **Pre-condition:** | 1. System must be fully configured and connected to DBLP and ACM DL 2. User must be successfully logged in to application. (Use case 1.1) |
| **Trigger:** | The User wants to search authors for Program Committee or Editorial Board |
| **Scenario:** | |
| 1. The User navigates to the “Search Screen”. | |
| 2. The User enters/selects criteria(s) to form the search query. Valid criteria(s) can be one or more of the following:   * Area of expertise * Year range * Past experience serving on a specific committee(s)/journal(s) * Number of research papers published * Title or keyword(s) of a particular research paper | |
| 3. The User clicks on “Search” button. | |
| 4. The System queries the database/data source to find records matching the query criteria(s). | |
| 5. If at least one matching record is found:   * The System displays the result in a user friendly format.   Else   * System displays a message “No records found”. * The System suggests the User to find a “Similar Profile” researcher/author instead of querying based on criteria(s) - see Use-case 1.4: “FIND SIMILAR PROFILE”. | |
| **Exception:** | |
| * System Error - report to admin * Database Error | |
| **Priority:** | Critical: Major feature. |
| **When Available:** | First or Second increment |
| **Frequency of use:** | Frequent |

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| **Use-case 1.3: FILTER RESEARCHERS/AUTHORS** | |
| **Summary:** | The User filters the results obtained on Use-case 1.2 by providing extra information. |
| **Actor(s):** | Program Committee Chairs (User), Associate Editors(User) and System |
| **Pre-condition:** | The System must have retrieved result(at least one record) from Use-case 1.2 or Use-case 1.4. |
| **Trigger:** | The User wants to granulize the result by filtering based on various constraints. |
| **Scenario:** | |
| 1. The User applies one or more of the following constraints to filter upon:   * Location * Gender * Field of service. For eg., academia or industry * Age range * Number of results to be displayed on a single page * Exclude/Include authors from Committee(s)/Journal(s) | |
| 2. The User clicks on “Filter” button. | |
| 3. The System filters the results based on the applied constraints. | |
| 4. The System displays the filtered results. | |
| **Exception:** | |
| * System Error - report to admin | |
| **Priority:** | High: Major feature. |
| **When Available:** | Second or Third increment |
| **Frequency of use:** | Frequent |

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| **Use-case 1.4: FIND SIMILAR PROFILE** | |
| **Summary:** | The User searches similar authors for a given/selected author. |
| **Actor(s):** | Program Committee Chairs (User), Associate Editors (User) and System |
| **Pre-condition:** | 1. Author profile has been retrieved for which similar profile needs to be identified  2. System must be fully configured and connected to DBLP and ACM DL. |
| **Trigger:** | The User is interested to find authors who have profile similar to the given profile |
| **Scenario:** | |
| 1. The User selects an author to find matching author profiles. | |
| 2. The User specifies one or more match criteria for profile similarity such as the following:   * Educational background * Area of research * Conferences/Journals served * Gender * Papers published * Age range | |
| 3. The User clicks on “Search Similar Authors” button. | |
| 4. The System runs the algorithm to find a list of similar profiles. This list is sorted in the order that profiles with maximum matched criteria are displayed first. | |
| 5. If at least one matching profile is found:   * The System displays the results in the order of their priority.   Else   * The System displays the message “No Profile found”. | |
| **Exception:** | |
| * System Error - report to admin * Database Error | |
| **Priority:** | High: Major feature. |
| **When Available:** | Third increment |
| **Frequency of use:** | Frequent |

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| **Use-case 1.5: SORT RESULT BY AN ATTRIBUTE** | |
| **Summary:** | Program Committee Chair/Editor-in-Chief wants to sort the result - list of researchers - by an attribute |
| **Actor(s):** | Program Committee Chairs (User), Associate Editors (User), and System |
| **Pre-condition:** | The user must have queried the system with preferred criteria to find suitable authors. Also, the system must have retrieved at least one record as a result. (Use-case 1.2 and 1.4) |
| **Trigger:** | The User wants to sort the list of authors using an attribute of the result. |
| **Scenario:** | |
| 1. The User is viewing the result of either “Find researchers/authors” or “Find Similar profile” functionalities. | |
| 2. The User clicks on sort icon on one of the result attributes(columns) that provide sort functionality. | |
| 3. The System sorts the result based on the selected attribute . | |
| **Priority:** | Moderate: Need to be implemented after critical features. |
| **When Available:** | Fourth increment |
| **Frequency of use:** | Frequent |

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| **Use-case 1.6: VIEW MEMBER PROFILE** | |
| **Summary:** | The User can view the profile of a particular author. |
| **Actor(s):** | Program Committee Chair (User), Associate Editors (User) and System |
| **Pre-condition:** | The User must have retrieved a profile by using the “Find Authors” or “Find similar profile” functionality. (Use-cases 1.2 and 1.4) |
| **Trigger:** | The User is interested in viewing details about a researcher/author |
| **Scenario:** | |
| 1. The User is viewing result of either “Find authors” or “Find Similar profile” functionalities. | |
| 2. The User clicks on a particular author’s name. | |
| 3. The System retrieves detailed profile information of the selected author from a trustworthy data source. This result may include the following information (if available) about the author:   * Personal Information * Educational Information * Professional and/or Academic Experience * Skills * Projects * Certifications and recognition * Publications * Journals and Program Committees the author served on | |
| 4. The System displays the selected author’s profile. | |
| **Exception:** | |
| * System Error - report to admin | |
| **Priority:** | Moderate: Need to be implemented after major features. |
| **When Available:** | Fourth increment |
| **Frequency of use:** | Infrequent |

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| **Use-case 1.7: EXPORT RESULT** | |
| **Summary:** | Program Committee Chair/Editor-in-Chief wants to export the result - list of authors. |
| **Actor(s):** | Program Committee Chair (User), Associate Editors(User), and System |
| **Pre-condition:** | The search result has at least one record in order to export it. |
| **Trigger:** | The User wants to save the list of authors and their details for offline usage. |
| **Scenario:** | |
| 1. The User clicks on “Export Results”. | |
| 2. System pops up a dialogue box to select the “export type”. For eg., PDF, CSV, etc. | |
| 3. The User selects the suitable mode to export the result. | |
| 4. System exports the result in the form selected by the User. | |
| **Exception:** | |
| * System Error - report to admin | |
| **When Available:** | Fourth increment |
| **Frequency of use:** | Infrequent |

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| **Use-case 1.8: REPORT TO ADMIN** | |
| **Summary:** | The User reports failure to system admin. |
| **Actor(s):** | Program Committee Chair (User), Associate Editors(User), and System |
| **Pre-condition:** | The User encounters an error in the system. |
| **Trigger:** | The User wants to report the error to system admin. |
| **Scenario:** | |
| 1. User encounters an error while searching for authors or similarity search. | |
| 2. User goes to Report Error screen. | |
| 3. User enters error information and submits the form. | |
| 4. System alerts admin about the error. | |