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| **Class Name:** Author | **ID:** 1 |
| **Superclasses:** None | |
| **Attributes:**   * userID. Integer type. Assigned when account is created. * firstName. String type. * lastName. String type. * userName. String type. Can consist of numbers or alphabets. * email. String type. * password. String type * university. String type. * expertise. String type. Words or phrases describing the expertise of the user. | |
| **Methods:**   * modifyDetails()   Function to modify the attributes of the class.   * modifyPassword()   Function to allow modification of the password   * verifyPassword()   To be used when user log into the system.   * submitPapers()   Function to submit a paper.   * modifyPaperSubmission()   Function to modify attributes in the ResearchPaper class.   * sendResponse()   Function for user to leave a comment on their research paper after it has been reviewed. | |

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| **Class Name:** ProgramCommittee | **ID:** 2 |
| **Superclasses:** Author | |
| **Attributes:**   * preferences. This will be an array of integers specifying the preference. 1 for “Yes”, 2 for “No”, 3 for “Maybe” and 4 for “Conflict of Interest”. The size of the array is based on the number of papers submitted. * paperAssigned. This will be an array of integers specifying the papers assigned to the ProgramCommittee. The size of this array depends on the number of papers per reviewers set by the Program Committee Chair.   \*Other attributes inherited from class Author. | |
| **Methods:**   * specifyPreferences()   Function to allow Program Committee to assign preference on all papers submitted.   * assignPapers()   Function to assign papers to ProgramCommitee.   * reviewPaper()   Function to allow reviewing of paper   * modifyReview()   Function to allow modification of review   * discussReview()   Function to allow discussion among reviewers. | |

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| **Class Name:** ProgramCommitteeChair | **ID:** 3 |
| **Superclasses:** Author, ProgramCommittee | |
| **Attributes:**  \*Attributes inherited from ProgramCommittee and Author. | |
| **Methods:**   * assignProgramCommittee()   Function to allow assignment of Authors to the role of ProgramCommittee.   * monitorProgramCommittee()   Function to allow monitoring of the program committee.   * checkEvents()   Function to allow viewing of the latest events happening within the system.   * autoAssignPapers()   Function to allow automatic assignment of papers to ProgramCommittee   * autoSpecifyPreferemces()   Function to allow automatic assignment of preferences on papers for the ProgramCommittee.   * callAssignPapers()   Function to allow manual assignment of papers. Calls function “assignPapers” from the ProgramCommittee class.   * setReviewersNum()   Function to allow setting the global number of reviewers per paper.   * setPapersNum()   Function to allow setting the global number of papers per reviewer.   * manualSetPapersNum()   Function to allow manually setting the number of papers a reviewer receives.   * generateConfProc()   Function to allow the generation of conference proceeding. Taking the list of accepted papers and making a list.   * groupPaper()   Allow manual assignment of group for a paper.   * allowReview()   Function to enable/disable paper reviews   * approvePaper()   Function to accept or reject a paper.   * allowRespond()   Function to allow author response to their papers   * allowDiscussion()   Function to allow discussion among reviewers. | |

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| **Class Name:** Administrator | **ID:** 4 |
| **Superclasses:** Author, ProgramCommittee, ProgramCommitteeChair | |
| **Attributes:**  \*Attributes inherited from Author, ProgramCommittee and ProgramCommitteeChair | |
| **Methods:**   * assignRoles()   Function to allow assignment of roles to different users. | |

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| **Class Name:** ResearchPaper | **ID:** 5 |
| **Superclasses:** None. | |
| **Attributes:**   * paperID. Integer type. * constributedUsers. Array consisted of the author IDs to represent those who have contributed to the paper. * title. String type. * keywords. String type. Words that describe the research paper. * abstract. String type. Short paragraph providing a summary of the research paper. * assignedGroup. String type. Group that it has been assigned to. Used for generating conference proceeding. * discussion. String type. Discussion that is done among the reviewers. * approval. Boolean type. Integer to represent if the paper is approved or not. 1 for “Yes”, and 2 for “No”. * userResponse. String type. A short comment sent in by the user regarding the reviews done on his paper. | |
| **Methods:**   * modifyAttributes()   Function to modify attributes of the class.   * assignUsers()   Function to link to the authors based on the email address input by the user.   * assignGroup()   Function to assign groups to the paper. | |

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| **Class Name:** PaperReview | **ID:** 6 |
| **Superclasses:** None | |
| **Attributes:**   * paperID. Integer type. * strengths. String type. Strengths of the paper. * weakness. String type. Weaknesses of the paper * comments. String type. Comments left by the reviewer. * suitability. Integer type. Is the paper suitable as a short paper. * pcRemarks. String type. Remarks left by the Program Committee * overall. Integer type. Overall evaluation of the paper. * reviewerConfidence. Integer type. * relevance. . Integer type. * originality. Integer type * significance. Integer type * presentation. Integer type. * technicalQuality. Integer type. * evaluation. Integer type. | |
| **Methods:**   * modifyAttributes()   Function to allow modification of attributes in the class. | |

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| **Class Name:** Conference | **ID:** 7 |
| **Superclasses:** None | |
| **Attributes:**   * conferenceName. String type. * conferenceYear. Int type. Year that the conference is held on * conferenceDetails. String type. Short description on the conference. | |
| **Methods:**   * modifyAttributes()   Function to allow modification of attributes in the class. | |