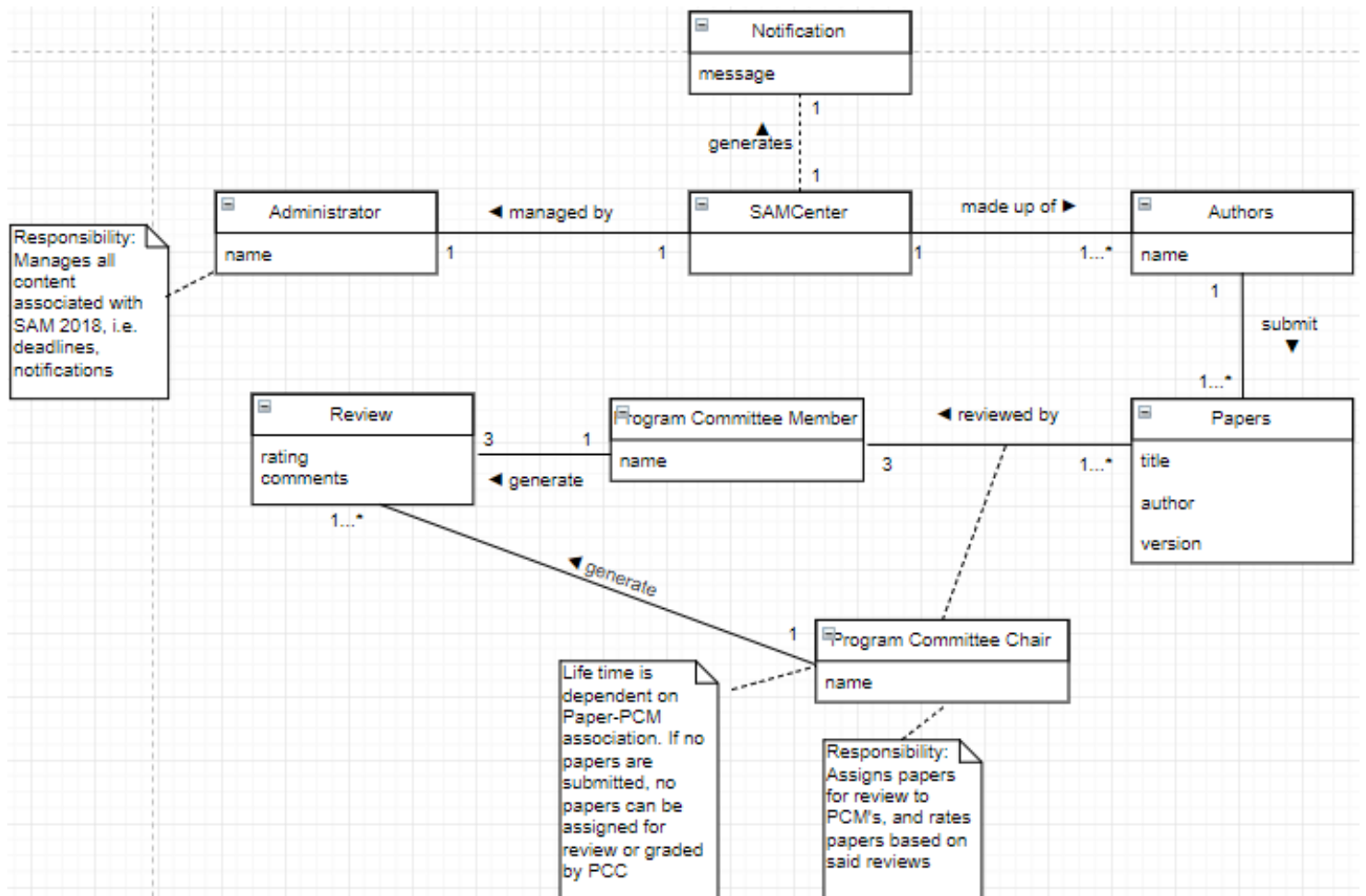


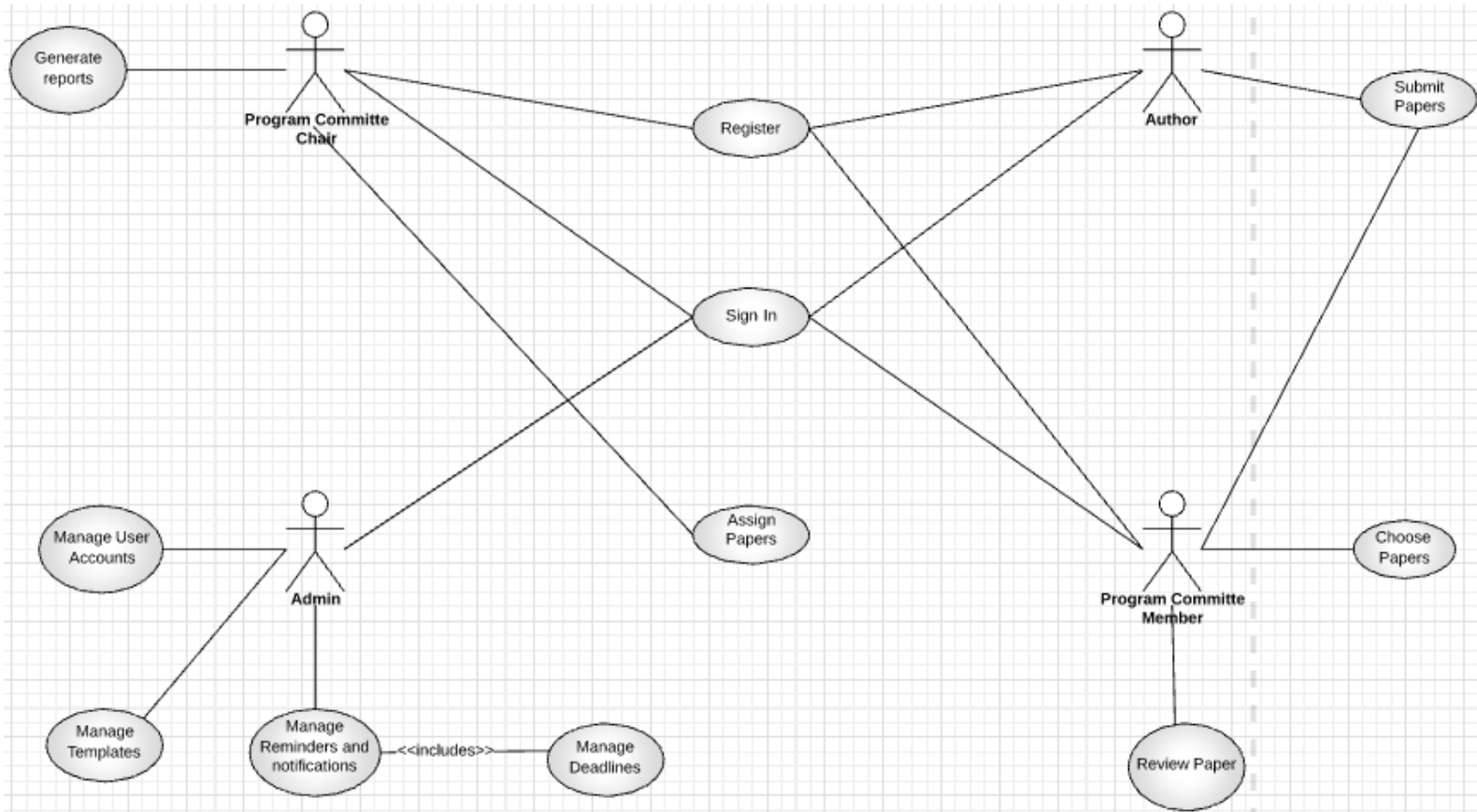
Software Application Mining 2018

Final Deliverables

I. Domain Model

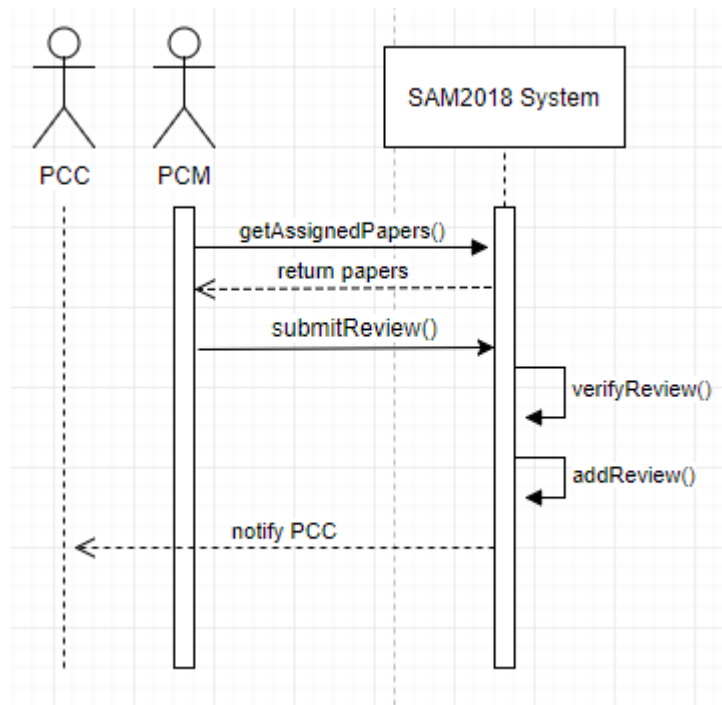


II. Use Case Diagram

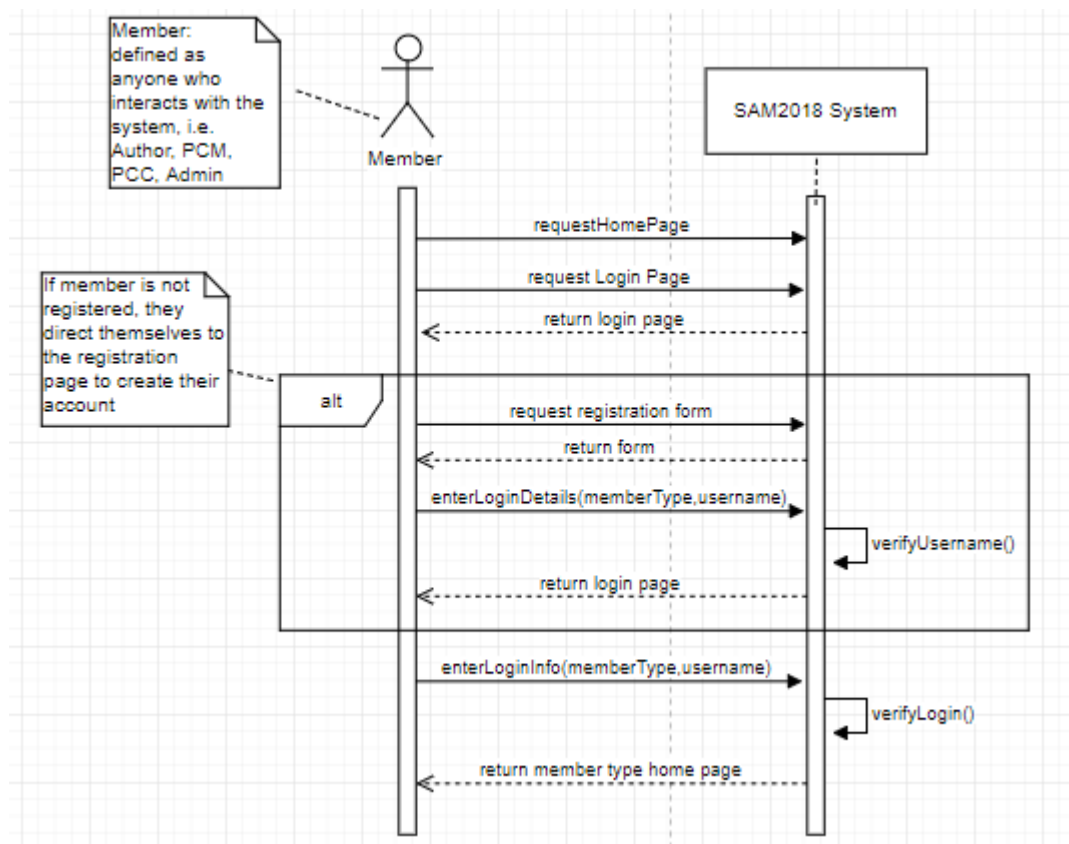


III. System Sequence Diagrams

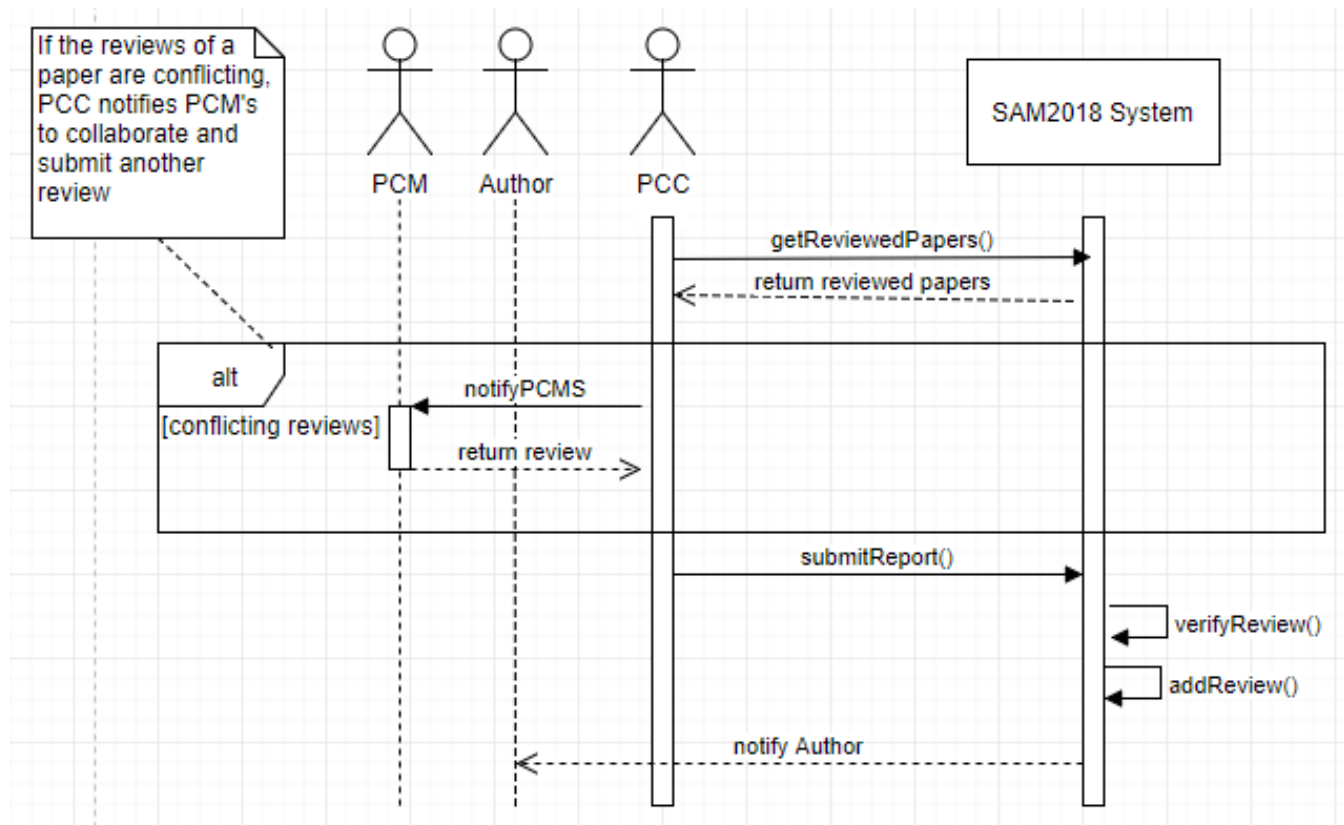
III.1 Review Papers



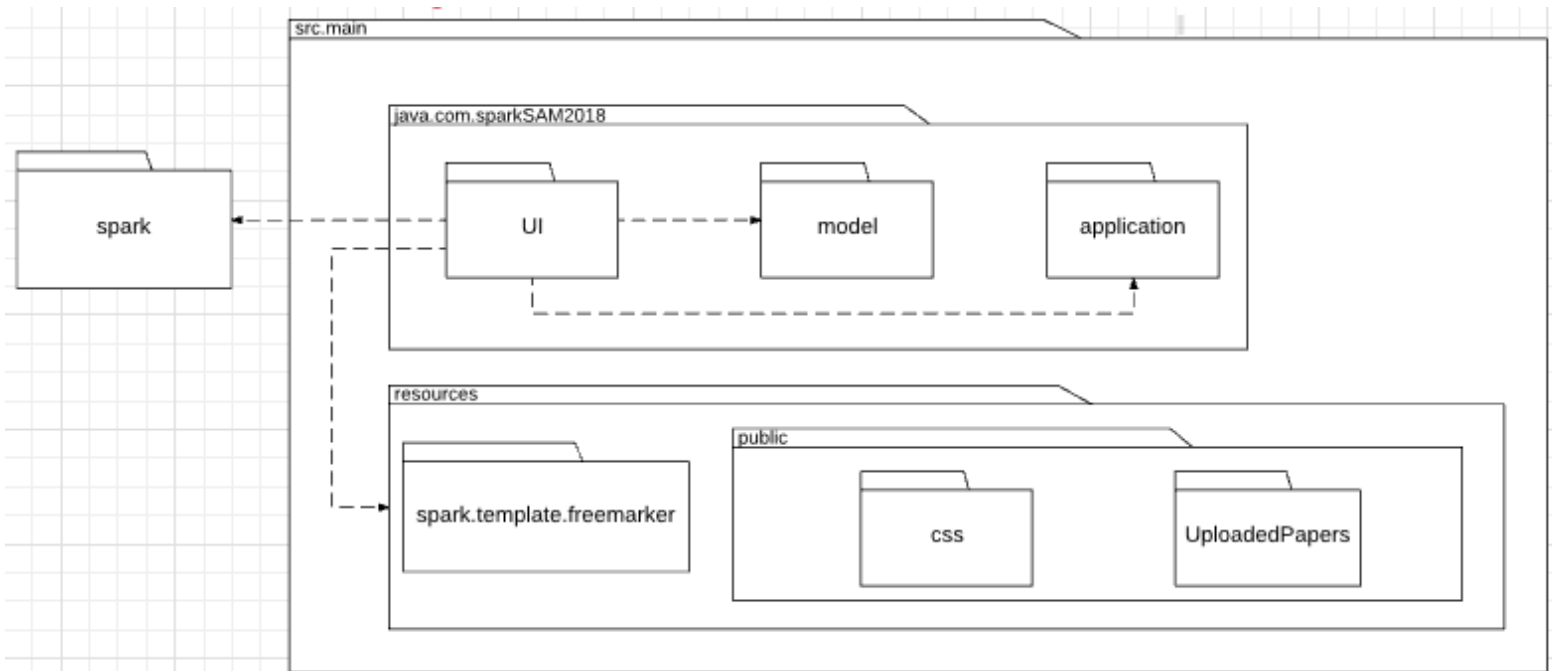
III.II Login



III.III Generate Report

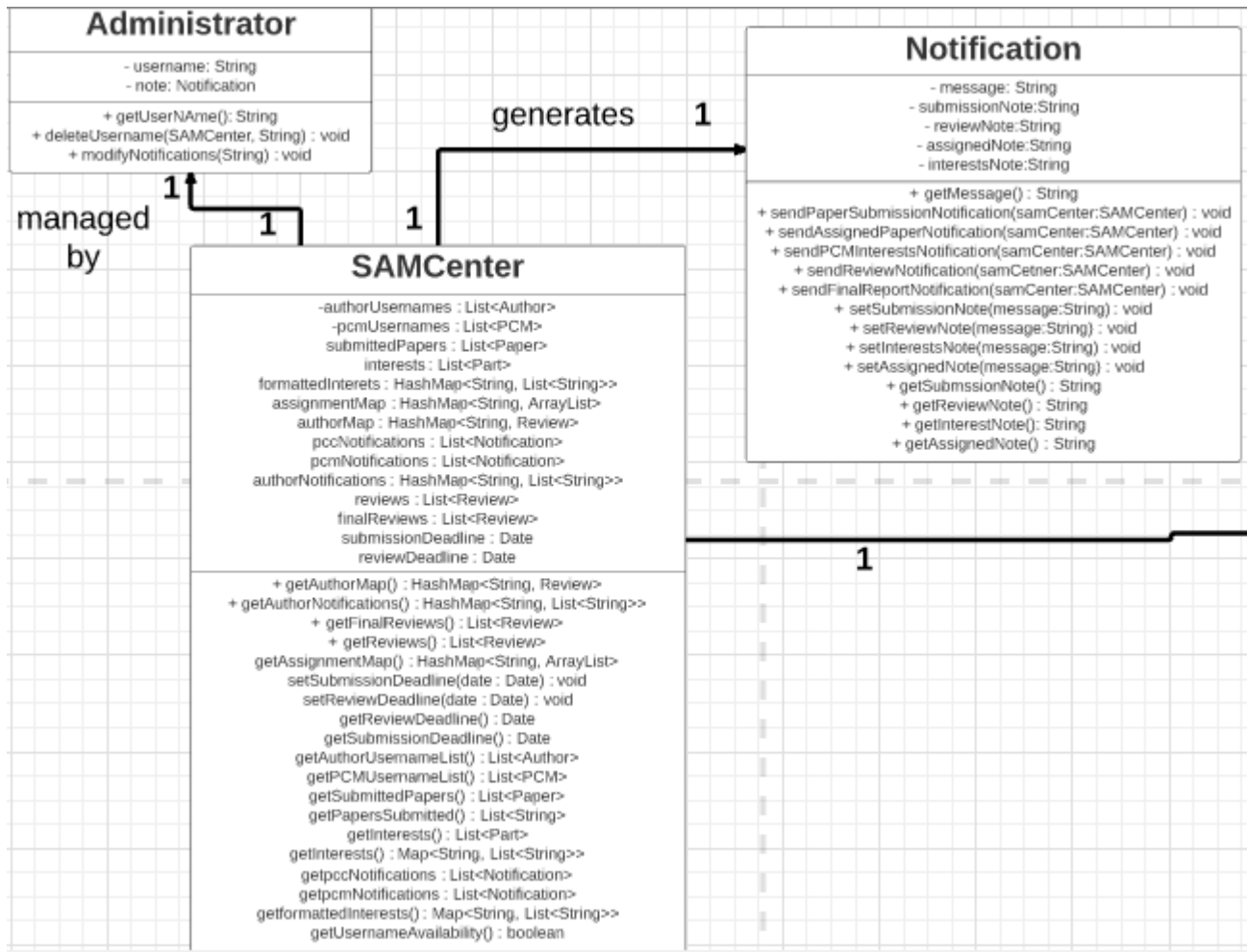


IV. Package Diagram

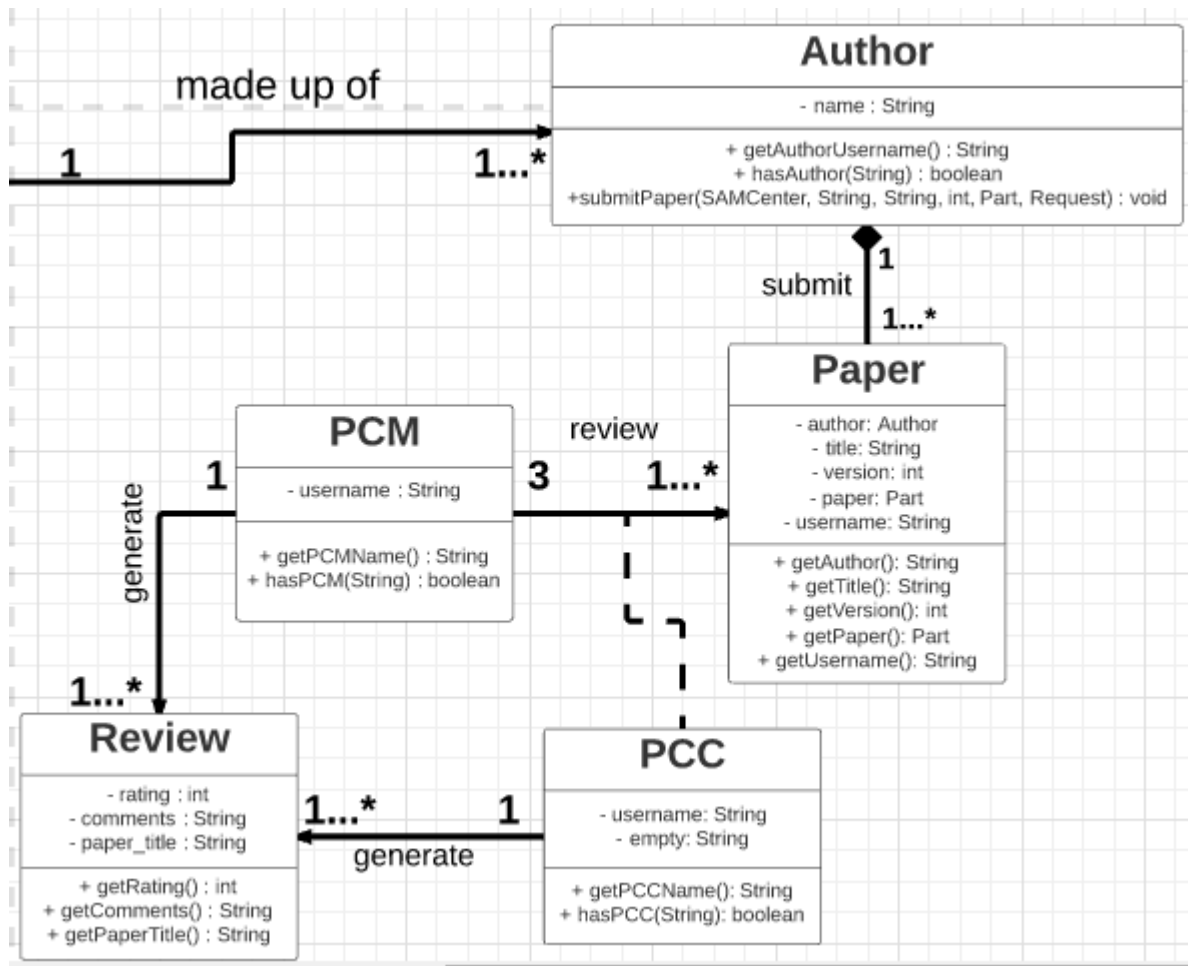


The package diagram located above represents the architecture structure of our SAM 2018 application. It is a basic Java Spark web application, that uses Freemarker templates as the client-side interfaces. The UploadedPapers package shown is the directory where all submissions to the SAM 2018 conference will be stored.

V. Design Class Diagram



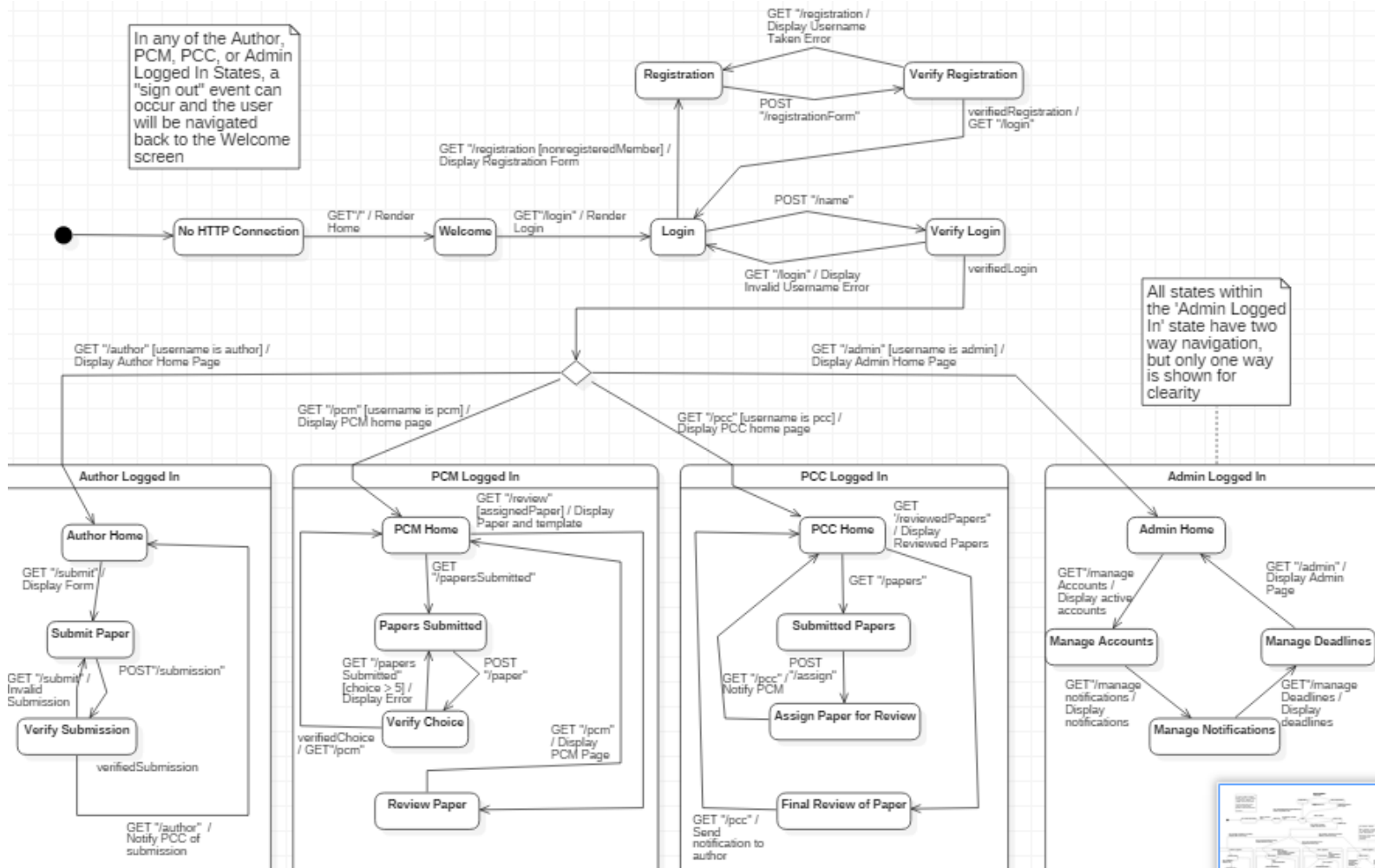
the relationship that flows off the image is an extension into the figure on the next page, i.e. the design class diagram has been split into two sections for clarity purposes



part 2 of design class diagram. The dashed line represents the association class relationship represented in our domain model

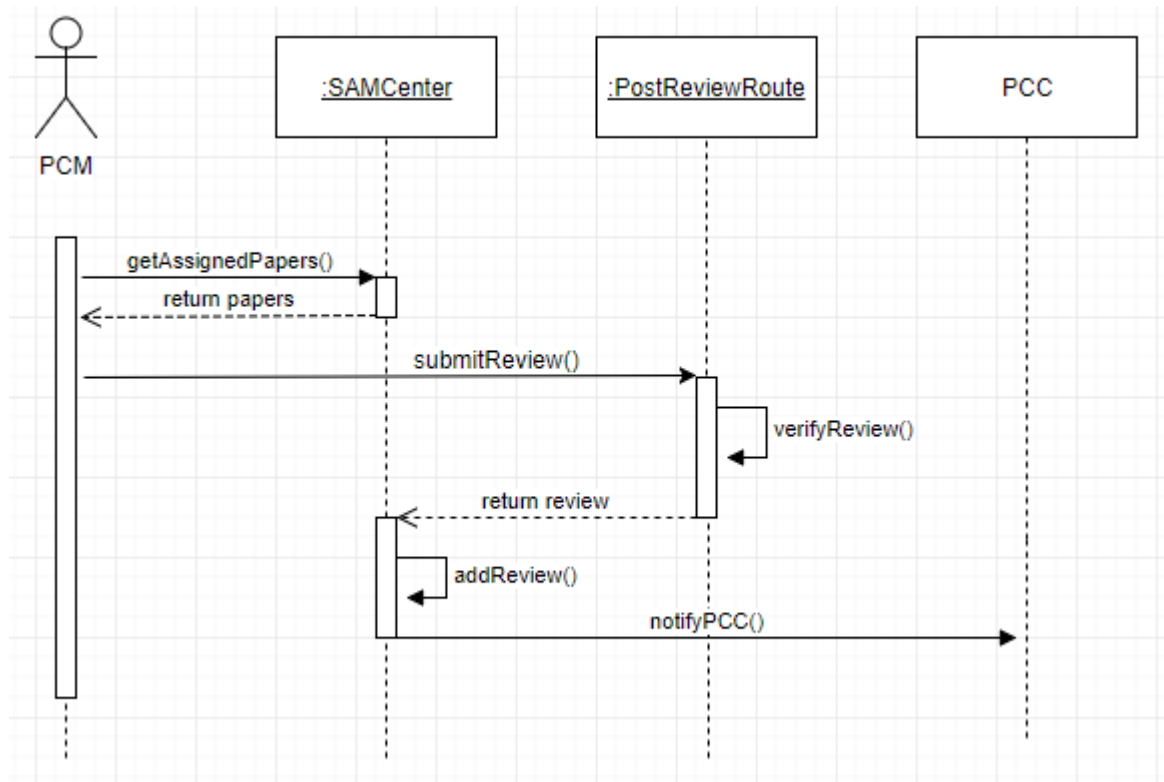
VI. State Diagram

In any of the Author, PCM, PCC, or Admin Logged In States, a "sign out" event can occur and the user will be navigated back to the Welcome screen

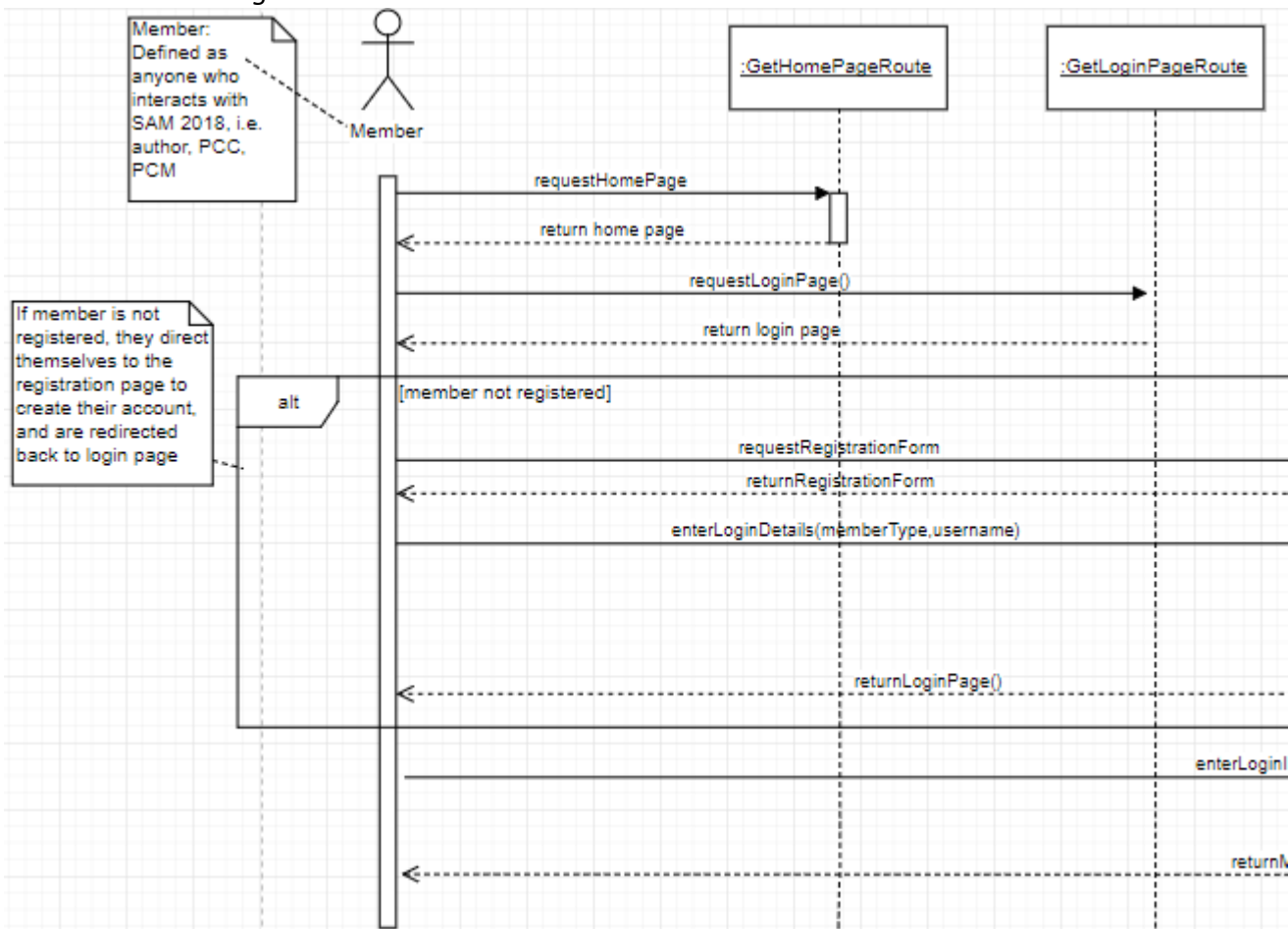


VII. Sequence Diagrams

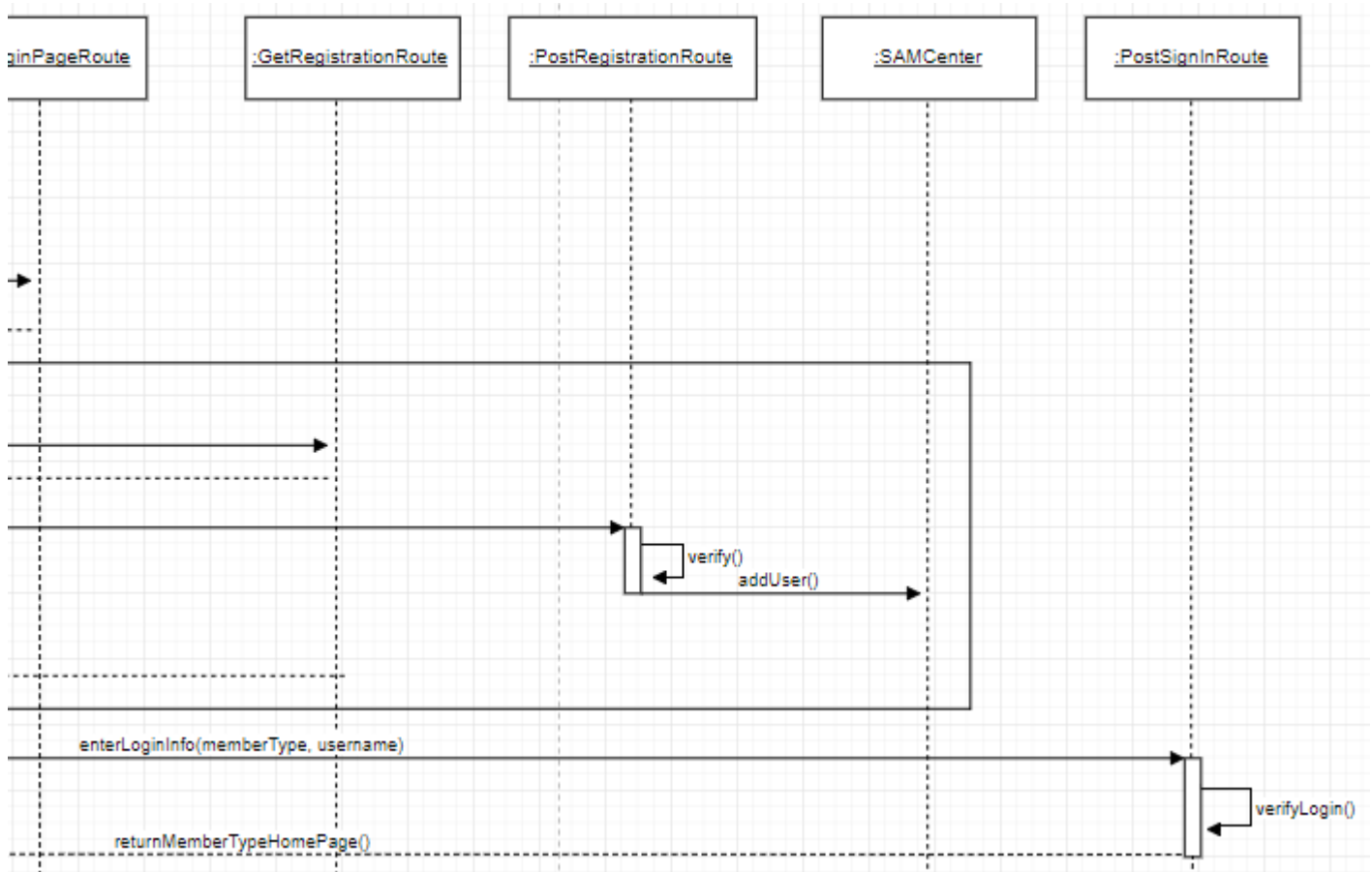
VII.1 Review Papers



VII.II Login

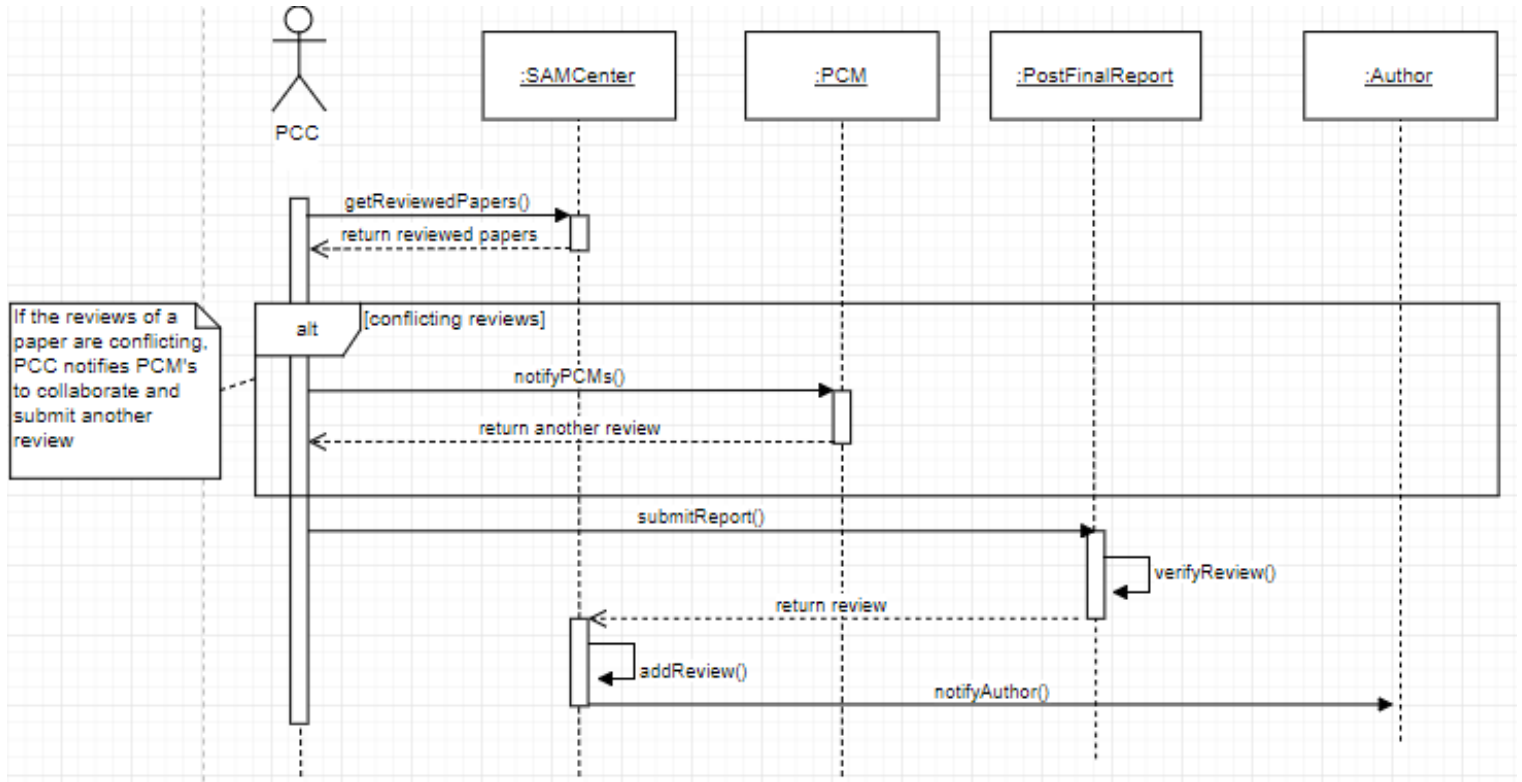


Just like the class diagram, this sequence diagram has been split up into two parts for clarity purposes. The figure on the next page contains the rest of the sequence diagram



part 2 of sequence diagram

VII.III Generate Report



Use Case Specification Document

Use cases:

Use Case Name	Main Actor(s):
1. Register	Author, Admin, PCC, PCM
2. Sign-In	Author, PCC, PCM, Admin
3. Manage User Accounts	Admin
4. Manage Templates	Admin
5. Manage Deadlines	Admin
6. Manage Reminders and Notifications	Admin
7. Submit Paper	Author, PCC
8. Assign Paper	PCC,PCM
9. Choose Papers	PCM, PCC
10. Review Paper	PCM
11. Generate Report	PCC

Use Case ID:	1		
Use Case Name:	Register		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Author, PCM, PCC
Description:	This use case will allow the users to create an account in the SAM 2018 system.
Trigger:	User requests to register.
Preconditions:	Registration page is displayed.
Post-conditions:	User is registered.
Normal Flow:	<ol style="list-style-type: none"> 1. The user requests for registration. 2. The system responds by providing the user a registration form asking for the following info: <ol style="list-style-type: none"> 2.1. UserName 2.2. Type of user <ol style="list-style-type: none"> 2.2.1. Author 2.2.2. Program Committee Member 2.2.3. Program Committee Chair 3. The system processes the form and creates an account for the user.
Alternate Flow	<ol style="list-style-type: none"> 1. Already Registered: If there is a prior registration for an entered email address, then the following steps occur: <ol style="list-style-type: none"> 1.1. The system informs the user that the email id provided is already in use. 1.2. The normal flow continues at step 3
Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	

Use Case ID:	2		
Use Case Name:	Sign-In		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Author, PCC, PCM, Admin
Description:	This use case will allow the actors to have access to the SAM 2018 system.
Trigger:	User requests to sign-in.
Preconditions:	Sign in page is displayed.
Post-conditions:	User has access to the SAM 2018 system.
Normal Flow:	<ol style="list-style-type: none"> 1. System requests user to enter the following information <ol style="list-style-type: none"> a. User account type <ol style="list-style-type: none"> i. Author ii. Program Committee Member iii. Program Committee Chair b. Enter name 2. User enters requested information and submits
Alternate Flow	<i>User enters wrong information :</i> <ol style="list-style-type: none"> 1. System informs user that information entered is invalid and goes back to Normal Flow step 1
Exceptions:	The administrator will login with username provided and it will need non registration.
*Includes:	Register
Priority:	High
*Supplemental Information:	Frequency of Use : Every time the user wants to access the system

Use Case ID:	3		
Use Case Name:	Manage User Accounts		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Admin
Description:	This use case will allow the Admin to set up and manage all the user accounts.
Trigger:	Admin user requests the system to manage an account.
Preconditions:	<ul style="list-style-type: none"> • User needs to have admin rights. • User must be signed in. • The Manage User Account page is displayed.
Post-conditions:	The user is able to add, modify and delete any user account type (PCC, Author, PCM).
Normal Flow:	<ol style="list-style-type: none"> 1. Administrator requests to see the existing accounts. 2. System displays all existing accounts (author, PCC and PCM) 3. Administrator selects an account to manage and make the necessary modifications, such as change the account type, change the account name, etc. 4. System saves the information and notifies the modified account owner. 5. System provides confirmation notification if the change to the administrator
Alternate Flow	<ol style="list-style-type: none"> 1. User requests to delete an account. <ol style="list-style-type: none"> a. System prompts the user to provide a reason. b. User writes and submits the reason. 2. Normal flow continue at step 4.

Exceptions:	1. The account the administrator is modifying is logged in at the system. 2. System notifies the administrator to wait for the account to go idle state.
*Includes:	
Priority:	High
*Supplemental Information:	

Use Case ID:	4		
Use Case Name:	Manage Templates		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Admin
Description:	This use case allows the Admin user to review and setup templates
Trigger:	User requests to manage templates.
Preconditions:	<ul style="list-style-type: none"> • User needs to have admin rights. • User must be signed in. • Manage Template page is displayed.
Post-conditions:	The user is able to review and setup templates
Normal Flow:	<ol style="list-style-type: none"> 1. User requests to set up a template. 2. System displays available templates. 3. The administrator sets up the following templates: <ol style="list-style-type: none"> 3.1 Submission paper file type: <ol style="list-style-type: none"> 3.1.1 Word 3.1.2 PDF 3.2 Submission paper information: <ol style="list-style-type: none"> 3.2.1 Title 3.2.2 Author 3.2.3 Contact author info 3.2.4 Version 3.2.5 Format of the paper 4. User submits the changes above. 5. system processes the changes and performs necessary updates
Alternate Flow	
Exceptions:	
*Includes:	

Priority:	High
*Supplemental Information:	Frequency of Use: Whenever the admin wants to make add/delete/modify any template/notification

Use Case ID:	5		
Use Case Name:	Manage Deadlines		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Admin
Description:	This use case allows the Admin user setup deadlines
Trigger:	The user clicks on the “Manage Deadlines” option
Preconditions:	<ul style="list-style-type: none"> • User needs to have admin rights. • User must be signed in.
Post-conditions:	Admin has modified the deadlines
Normal Flow:	<ol style="list-style-type: none"> 1. Admin requests to modify the deadlines 2. The system displays the existing deadlines and their values 3. The admin modifies the necessary deadlines and submits them 4. The system processes the request and changes the deadlines
Alternate Flow	
Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	Frequency of Use: Whenever the admin wants to add/delete or make changes to deadlines

Use Case ID:	6		
Use Case Name:	Manage Reminders and Notifications		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Admin
Description:	This use case allows the Admin user to send reminders and notifications to other users.
Trigger:	User requests to manage reminders and notifications.
Preconditions:	<ul style="list-style-type: none"> • User needs to have admin rights. • User must be signed in. • Notification and reminder templates must be created. • Deadlines needs to be defined. • Manage Reminders and Notifications page is displayed.
Post-conditions:	Admin is able to set up reminders and notifications.
Normal Flow:	<ol style="list-style-type: none"> 1. User requests to create the following notifications and reminders: <ol style="list-style-type: none"> 1.1. Remind a PCC every day that an unassigned paper needs attention 1.2. Remind a PCM every day after the review deadline has expired that a review is needed 1.3. Remind a PCC to enter a rating every day since all reviews have been entered 1.4. Notify the PCC when a new paper or newer version of the previously submitted paper has been submitted 1.5. Notify author if the paper does not adhere to the submission format 1.6. Notification about any changes to user account

	<ul style="list-style-type: none"> 1.7. Notify a PCM that a paper has been assigned to him/her for review 1.8. Notify a PCC that all reviews have been entered and prompt for a rating 1.9. Notify submitter of review results once the PCC has entered a rating and the review notification deadlines have passed <p>2. System stores the information.</p>
Alternate Flow	
Exceptions:	
*Includes:	Manage Deadlines
Priority:	High
*Supplemental Information:	

Use Case ID:	7		
Use Case Name:	Submit Papers		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	Authors, PCM
Description:	This use case allows the user to submit multiple papers or multiple paper versions of the same paper
Trigger:	User requests to submit paper(s).
Preconditions:	<ul style="list-style-type: none"> • User must be signed in. • User should have at least one paper to submit. • The paper submission date is still within the deadline • The paper to be submitted follows the submission file type guidelines(PDF or word file) • The paper submission template must be defined. • Submit paper page is displayed.
Post-conditions:	User is able to submit papers.
Normal Flow:	<ol style="list-style-type: none"> 1. The author requests to submit a paper. 2. The system displays the options to submit the paper with the available submission file types (PDF, Microsoft Word). 3. The author chooses one file type option and submits the paper. 4. The system asks the author to fill out following information <ol style="list-style-type: none"> 4.1. Title of the paper. 4.2. List of authors. 4.3. Contact author. 4.4. Version

	<ol style="list-style-type: none"> 5. The user fills out the information requested and submits to the system 6. The system saves the information and notifies the PCC and the author about the submission.
Alternate Flow	<p>Paper submission cancellation</p> <ol style="list-style-type: none"> 3.1 The user cancels the request to submit the paper. 3.2 The system prompts the user to confirm that he wants to cancel process. 3.3 The user confirms the cancel process in which case this use case ends and the system displays the homepage <p>Deadline Past</p> <ol style="list-style-type: none"> 3.1 The author attempts to submit a paper after the deadline 3.2 The system informs the author the submission is too late and the use case ends
Exceptions:	
*Includes:	
Priority:	Medium
*Supplemental Information:	Frequency of Use : Every time the author wants to submit a paper

Use Case ID:	8		
Use Case Name:	Assign Papers		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	PCC
Description:	This use case allows the PCC to notify and assign papers to PCMs.
Trigger:	This use case starts when the PCC clicks on the “Assign Paper” option.
Preconditions:	<ul style="list-style-type: none"> • The PCC must be signed-in. • The PCC should have the papers to be assigned. • The PCMs must have chosen the papers that they want to review in order for the PCC to assign papers to PCMs based on their choices. • PCC should have access to all contents for each of the submissions.
Post-conditions:	The PCC is able to assign papers to PCMs.
Normal Flow:	<ol style="list-style-type: none"> 1. The PCC requests the papers that need to be assigned 2. The system displays the assignable papers to the PCC 3. The PCC selects an unassigned paper and assigns it to three PCMs based on the choices of papers they are interested in. 4. The system notifies the PCM's chosen for review

Alternate Flow	<p>Paper Assigned to PCM who is also Author</p> <ol style="list-style-type: none"> 1. PCC attempts to assign a PCM to review a paper that the PCM has written 2. System notifies PCC of such error and normal flow continues at step 3.
Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	

Use Case ID:	9		
Use Case Name:	Choose Paper		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	PCM
Description:	This use case allows the PCM to choose papers from the submitted papers..
Trigger:	This use case starts when the PCM clicks on the “Choose Paper” option.
Preconditions:	<ul style="list-style-type: none"> • The user must be signed-in. • The user must be able to view the list of submitted papers.
Post-conditions:	The PCM is able to choose the list of papers he/she is interested in.
Normal Flow:	<ol style="list-style-type: none"> 1. The PCM clicks on the “Choose Paper” option. 2. The system displays the Choose Paper page with the list of submitted papers only having the below content: <ol style="list-style-type: none"> 2.1. Paper title. 2.2. Author name. 3. The PCM selects a list of papers he/she is interested in, based on the above information and hits submit. 5. The system stores the data submitted by the user
Alternate Flow	
Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	

Use Case ID:	10		
Use Case Name:	Review and Rate Paper		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	PCM
Description:	This use case allows the PCM to review papers assigned to them by the PCC
Trigger:	This use case starts when the PCM clicks on the “Review and Rate Paper ” option.
Preconditions:	<ul style="list-style-type: none"> • The user must be signed-in. • The user should be assigned papers to review and rate by the PCC
Post-conditions:	The PCM has reviewed the papers he/she has been assigned.
Normal Flow:	<ol style="list-style-type: none"> 1. The PCM clicks on the “Review Paper” option. 2. The system displays the Review Paper page with the assigned papers along with the template for reviewing the papers 3. The PCM reviews the paper according to the template and submits. 4. The system stores the review submitted by the PCM and sends it to the PCC along with notifications.
Alternate Flow	
Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	Frequency of use : Each time the user is assigned papers to rate

Use Case ID:	11		
Use Case Name:	Generate Report		
Created By:	Team 5	Last Updated By:	
Date Created:		Date Last Updated:	

Actors:	PCC
Description:	This use case allows the PCC to review and subsequently rate papers received from PCMs for the final time
Trigger:	The user clicks on the “Generate Report” option.
Preconditions:	<ul style="list-style-type: none"> • The user must be signed-in. • The user should have a list of received papers from PCMs
Post-conditions:	The PCC is able to review and rate the papers he/she has received from the PCMs for a final rating
Normal Flow:	<ol style="list-style-type: none"> 1. The PCC clicks on the “Generate Report” option. 2. The system displays the Generate Report page which consists of the list of papers submitted by the PCMs after reviewing them. 3. The PCC rates and provides final review on each paper. 4. The system stores the review submitted by the PCC and sends out necessary notifications.
Alternate Flow	<p>Reviews presenting conflicting views: The user identifies that there is a reviewing conflict</p> <ol style="list-style-type: none"> 1. The user sends notification to the 3 PCMs assigned for that paper: <ol style="list-style-type: none"> 1.1. To read each other’s reviews 1.2. To discuss their viewpoints 1.3. To modify their reviews accordingly 2. Normal flow continues at step 3

Exceptions:	
*Includes:	
Priority:	High
*Supplemental Information:	Frequency of use : Each time the user is assigned papers to rate