UNIVERSITEIT VAN PRETORIA
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FUNCTIONAL REQUIREMENTS

Project: Figbook
CLIENT: FIGTORY ANIMATION

Team: Creativate

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Here's a link to GitHub.
https://github.com/SpheMalo/COS-301-Main-Project.git

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This section discusses for each module of the Figbook system the functional requirements as well as the process designs for the use cases and the domain models which must be maintained within persistent storage by that module.

2.1 Authentication

2.1.1 scope

This section provides the details use case requirements for the use cases offered by the Authentication module.
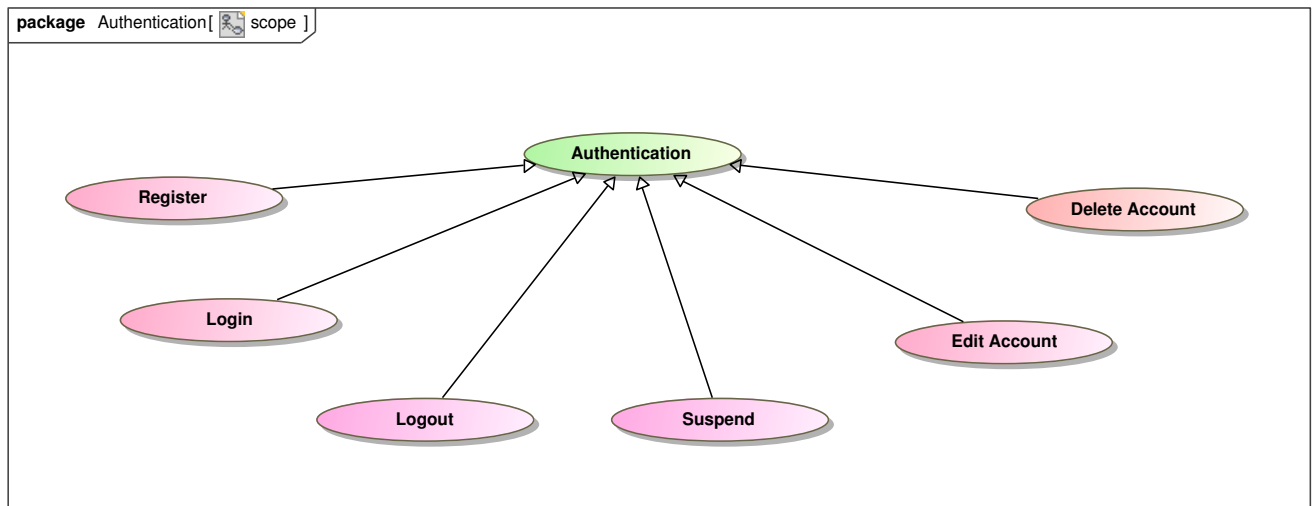

Figure 1: Scope for authentication module

2.1.2 Use Cases

1. **registerAccount priority: critical** This use case creates a user account and is persisted through to database.

   service contract The service contract for the registerAccount service is shown in figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the requested account is created and persisted through to database.
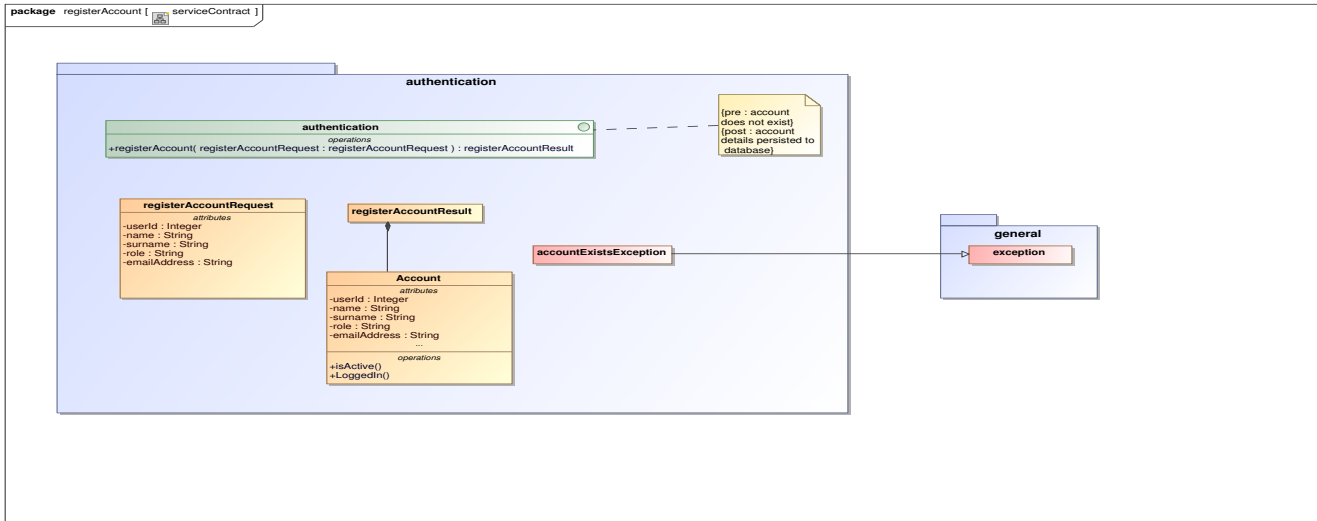

Figure 2: Service contract for logging into a user account

2. **Login - priority: critical** This use case allows a user to log into an existing account.

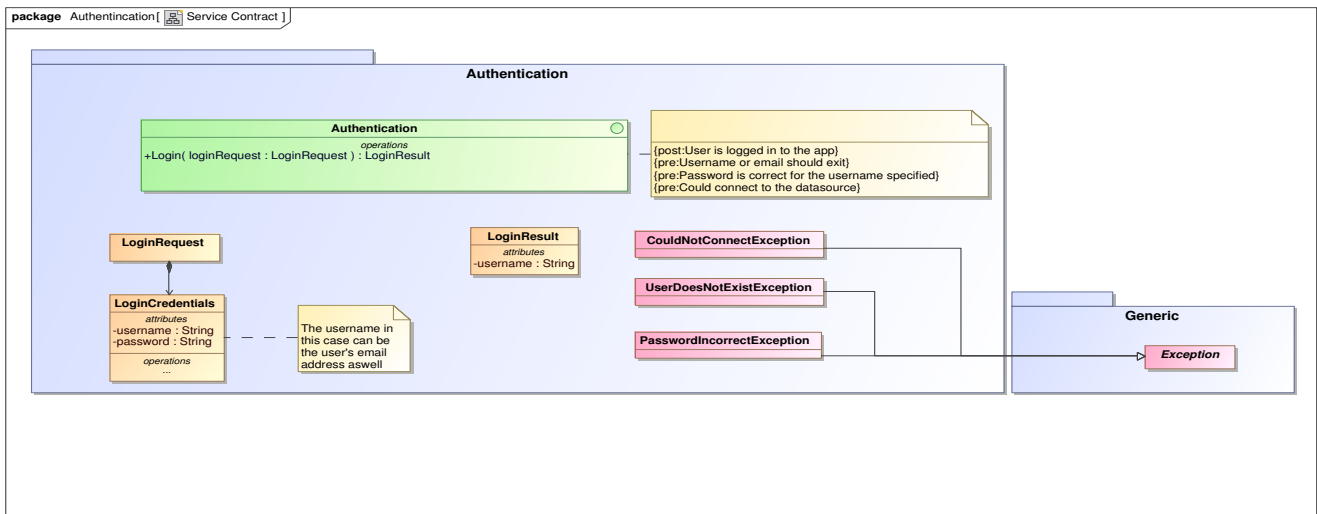   **service contract** The service contract for the login service is shown in figure below.

Figure 3: Service contract for logging into a user account

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3. **Logout - priority: important**

   This use case allows a user to log out of the system safely.

   Service contract: The service contract for logging out is shown below. The preconditions are enforced and the users session is ended, thus logging the user out of the system.
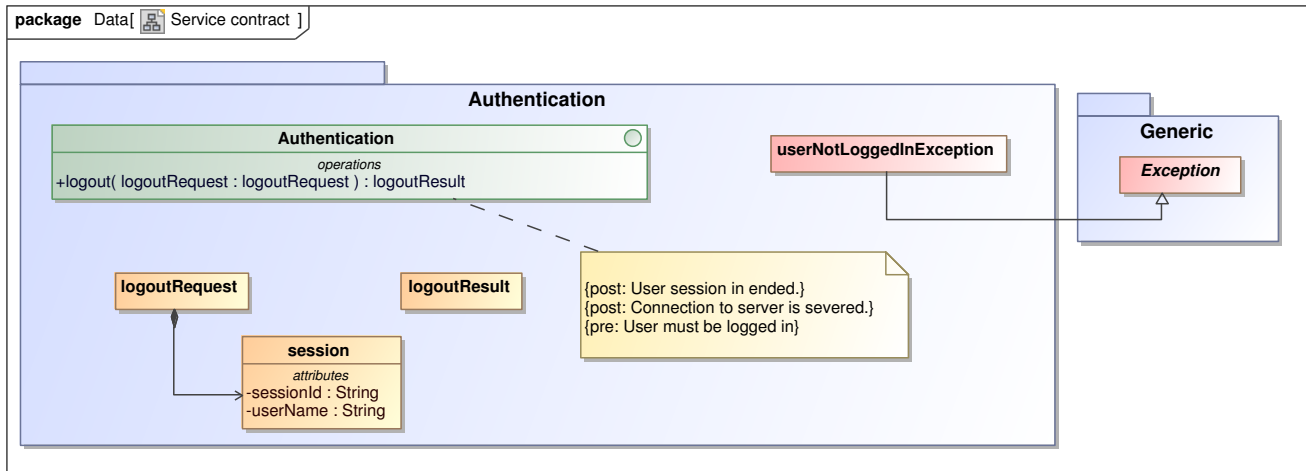
Figure 4: Service contract for logging a user out of the system

4. **EditAccount**

5. **deleteAccount priority: important** This use case creates a user account and is persisted through to database.

   service contract The service contract for the deleteAccount service is shown in figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the account of interest is deleted and changes are persisted through to database.
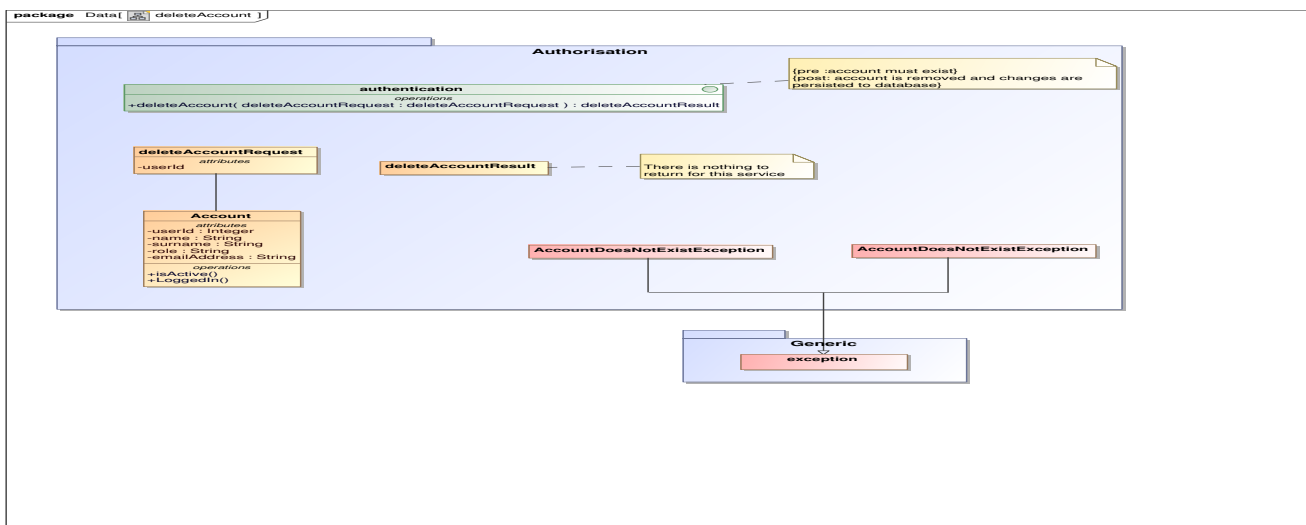

Figure 5: Service contract for deleting a users account

6. **SuspendAccount - priority: important**
   This use case allows the system administrator to suspend a users account for any reason
   he/she may see as appropriate. A suspended account bars the user from logging in and/or
   using the account until the administrator lifts the suspension.
   service contract: The service contract for the suspendAccount service is shown below.
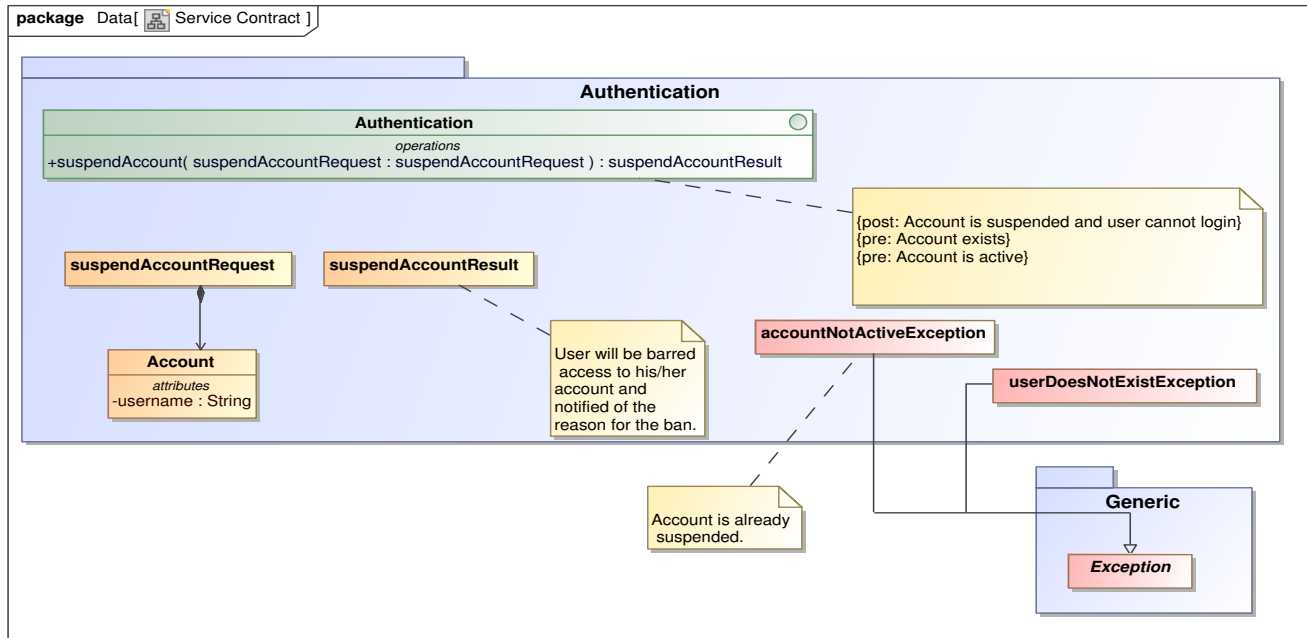

Figure 6: Service contract for suspending a users account

2.2 Manuscript Management

2.2.1 scope

This section provides the detailed service contracts and activity diagrams(where needed) for the use cases offered by the Manuscript Management module.
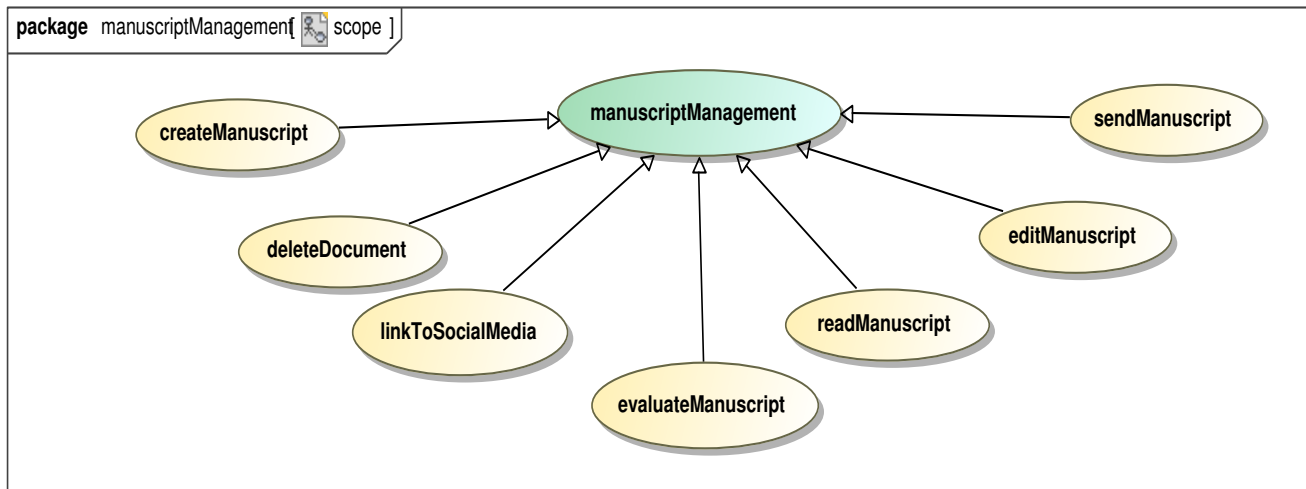

Figure 7: Scope for manuscript management module

2.2.2 Use Cases

1. **Create Manuscript - priority: critical**

   This use case allows an author to create a new project, by creating a new manuscript. The author will be able to give the manuscript a name(title) and specify the privacy setting on it. There may be one or multiple authors collaborating on a manuscript. A manuscript's title should be unique.

   Service Contract: Below is a figure of the createManuscript service contract.
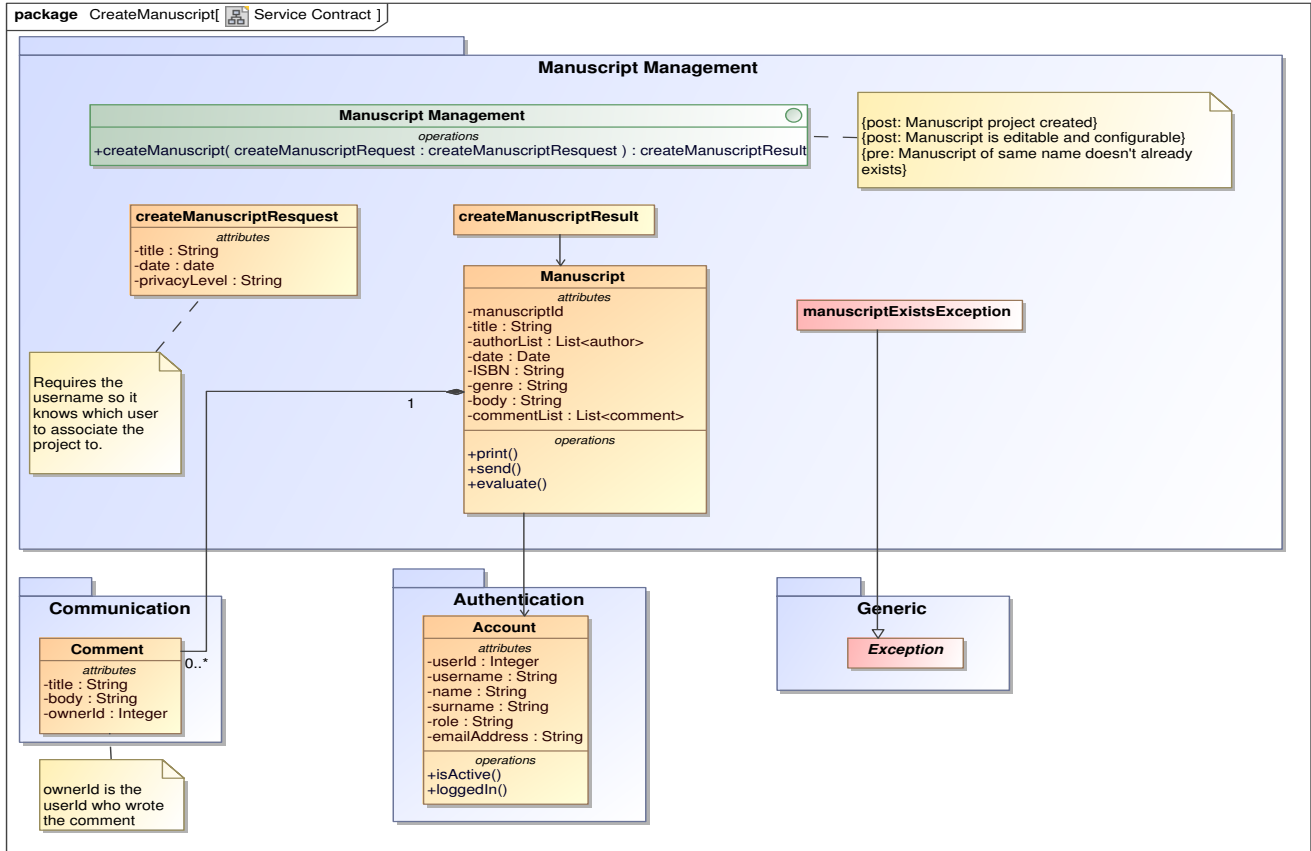

Figure 8: Service contract for creating a new project (manuscript)

2. **Delete Manuscript   priority: important**

   This use case removes an existing manuscript. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the manuscript of interest is deleted and changes are persisted through to database.

   Service Contract: The service contract for the deleteManuscript service is shown in figure below.
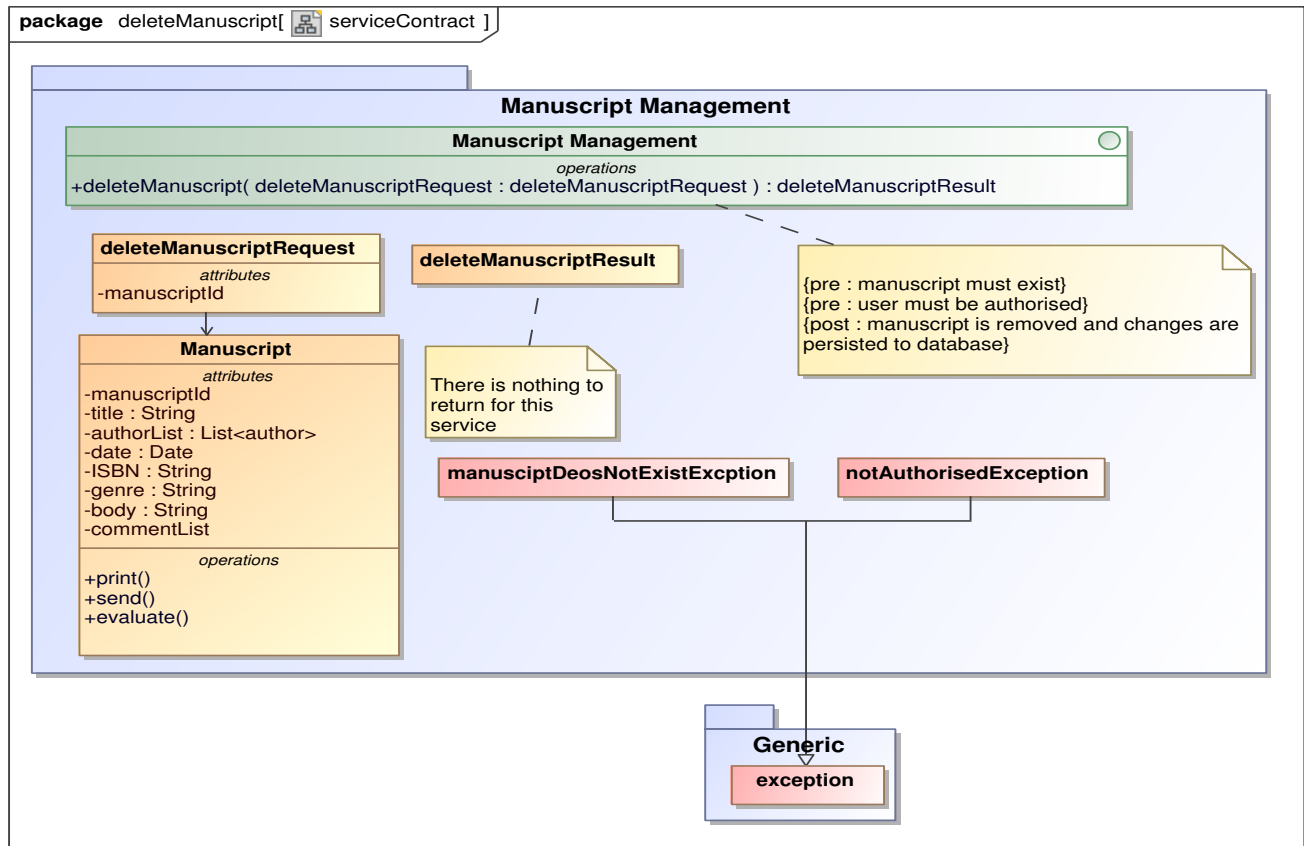

Figure 9: Service contract for deleting a project (manuscript)

3. **Link To Social Media priority: important**

This use case links a project(manuscript) to a social media of choice if conditions are met and creates an automated post on that social media.

Service Contract: The service contract for the linkToSocialMedia service is shown in figure below.
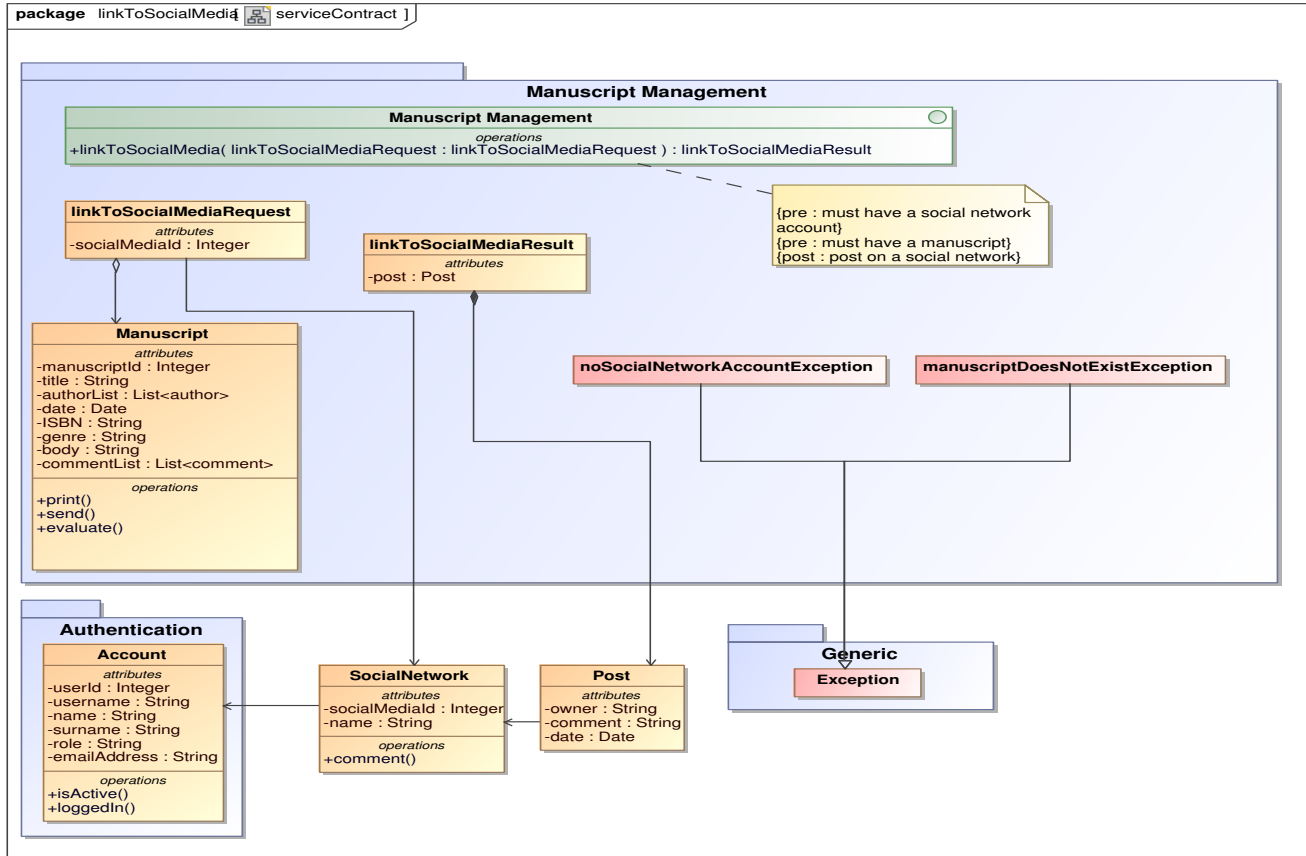

Figure 10: Service contract for linking a project (manuscript) to a social network

4. **Edit Manuscript priority: critical**

   This use case which allows one to edit a manuscript if authorized and afterwards changes
   are persisted to database.

   Service Contract: The service contract for the editManuscript service is shown in figure
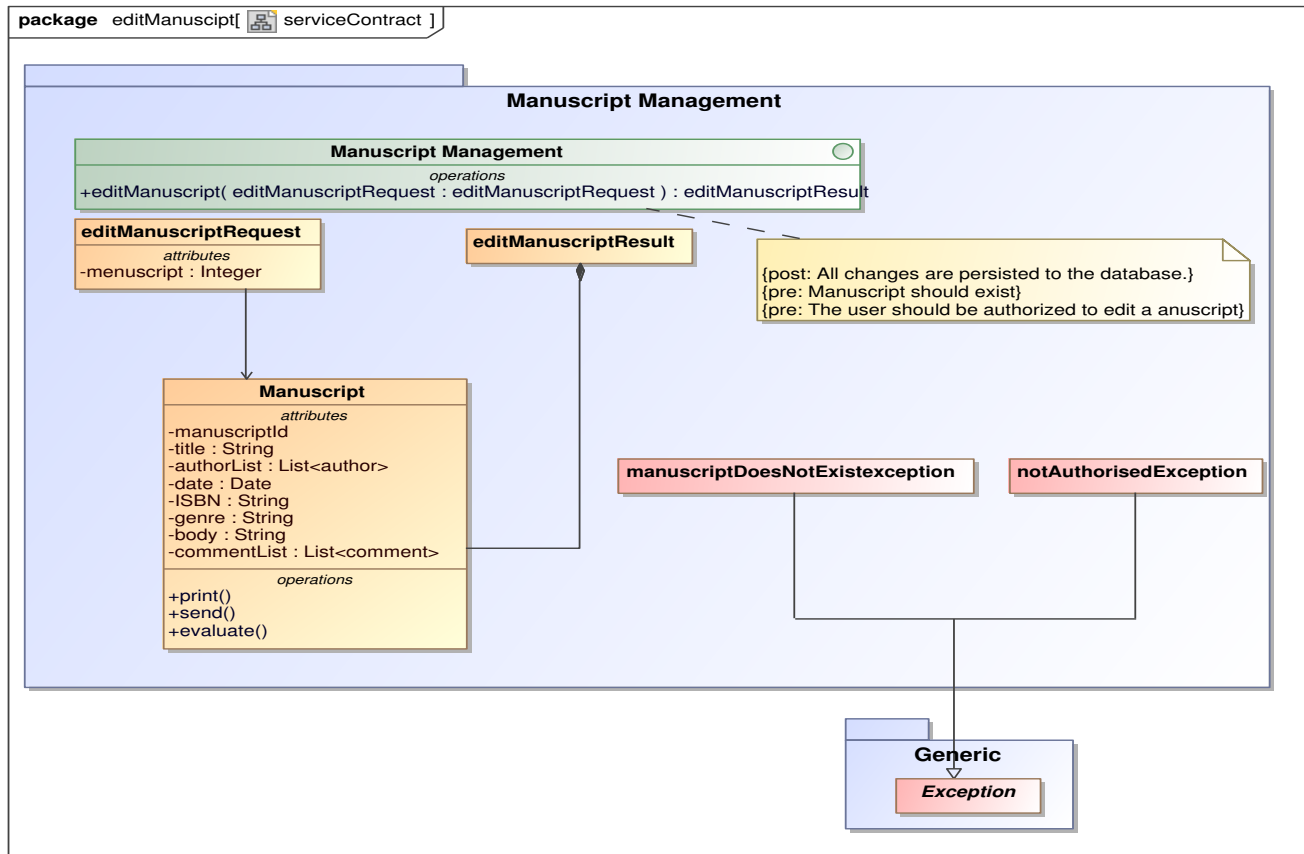   below.

Figure 11: Service contract for editing a project (manuscript)

5. **Evaluate Manuscript - priority: critical**

   This use case allows an agent or an editorial to evaluate the manuscript and to give the according feedback to the author, such as a comment or editorial letter.

   Service Contract: The service contract for the evaluateManuscript service is shown in figure below.
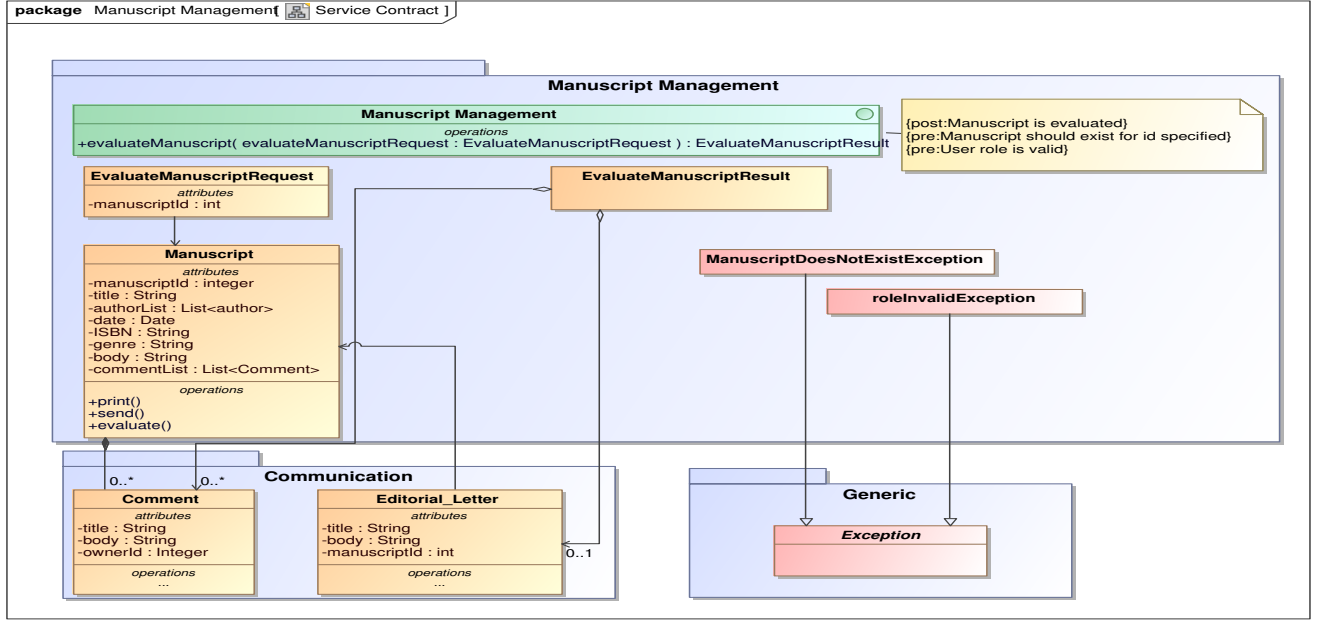

Figure 12: Service contract for evaluating a manuscript

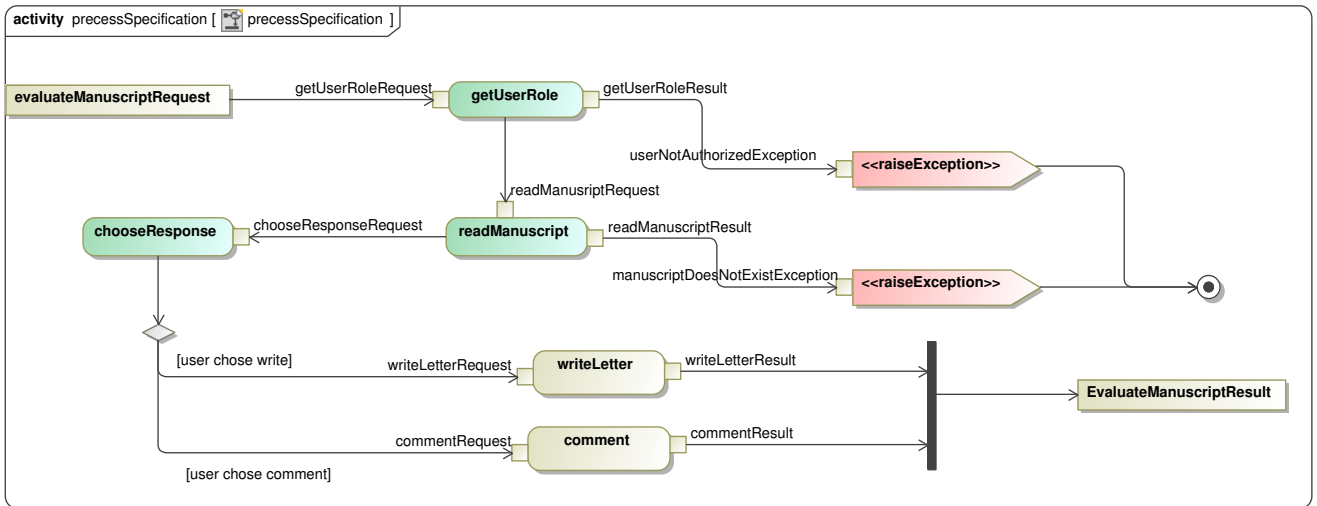   **Process Specification:** The process specification for the evaluateManuscript service is shown in figure below.

Figure 13: Process Specification for evaluating a manuscript

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6. **Read Manuscript - priority: critical**

   The use case grants access to users to view/read a manuscript, under the conditions that the user is authorized and that the manuscript still exists.

   Service Contract: The service contract for the readManuscript service is shown in figure below.
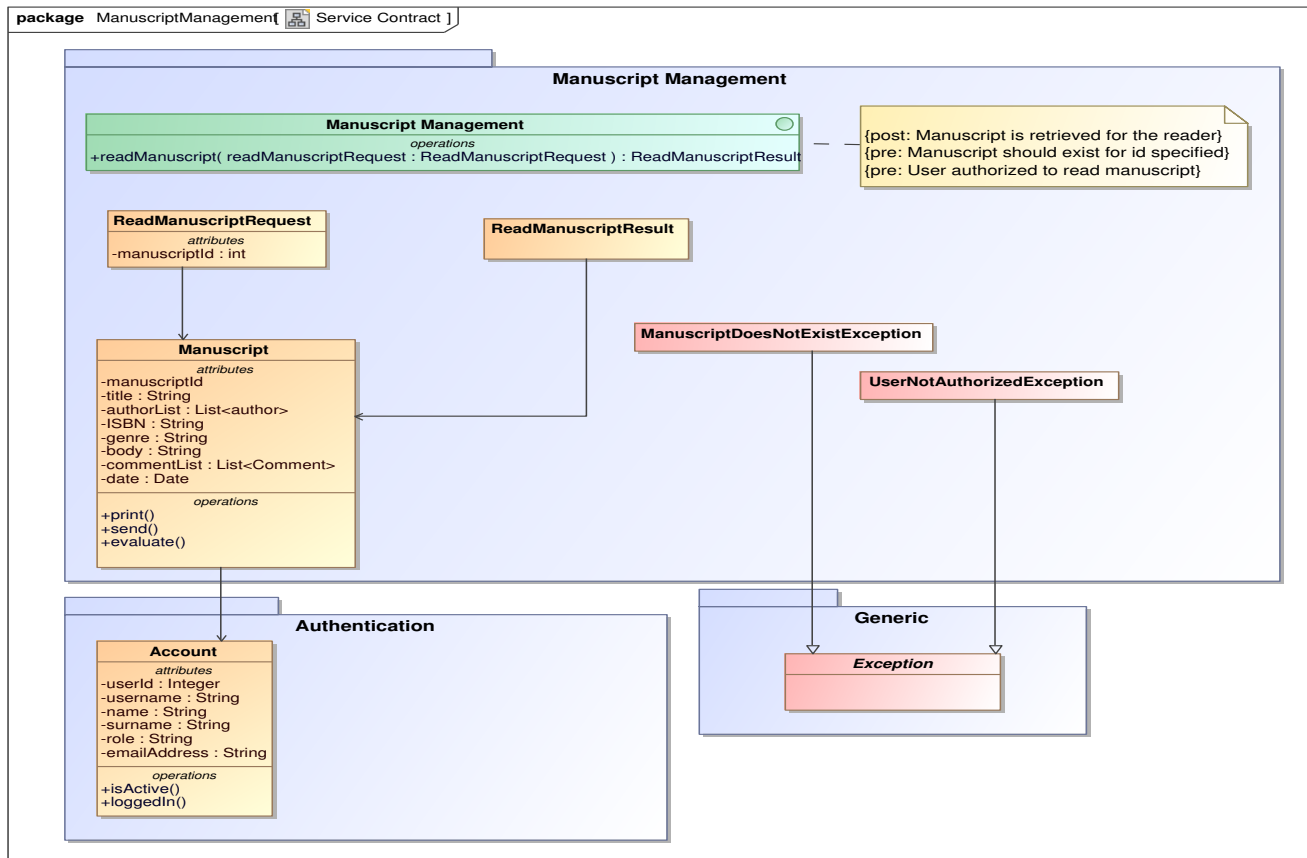

Figure 14: Service contract for reading a manuscript

7. **Send Manuscript - priority: critical**

   This use case allows a user link another user on the system to the manuscript. This allows the recipient to access it and, depending on the privileges afforded by the owner of the manuscript, be able to read/modify it.

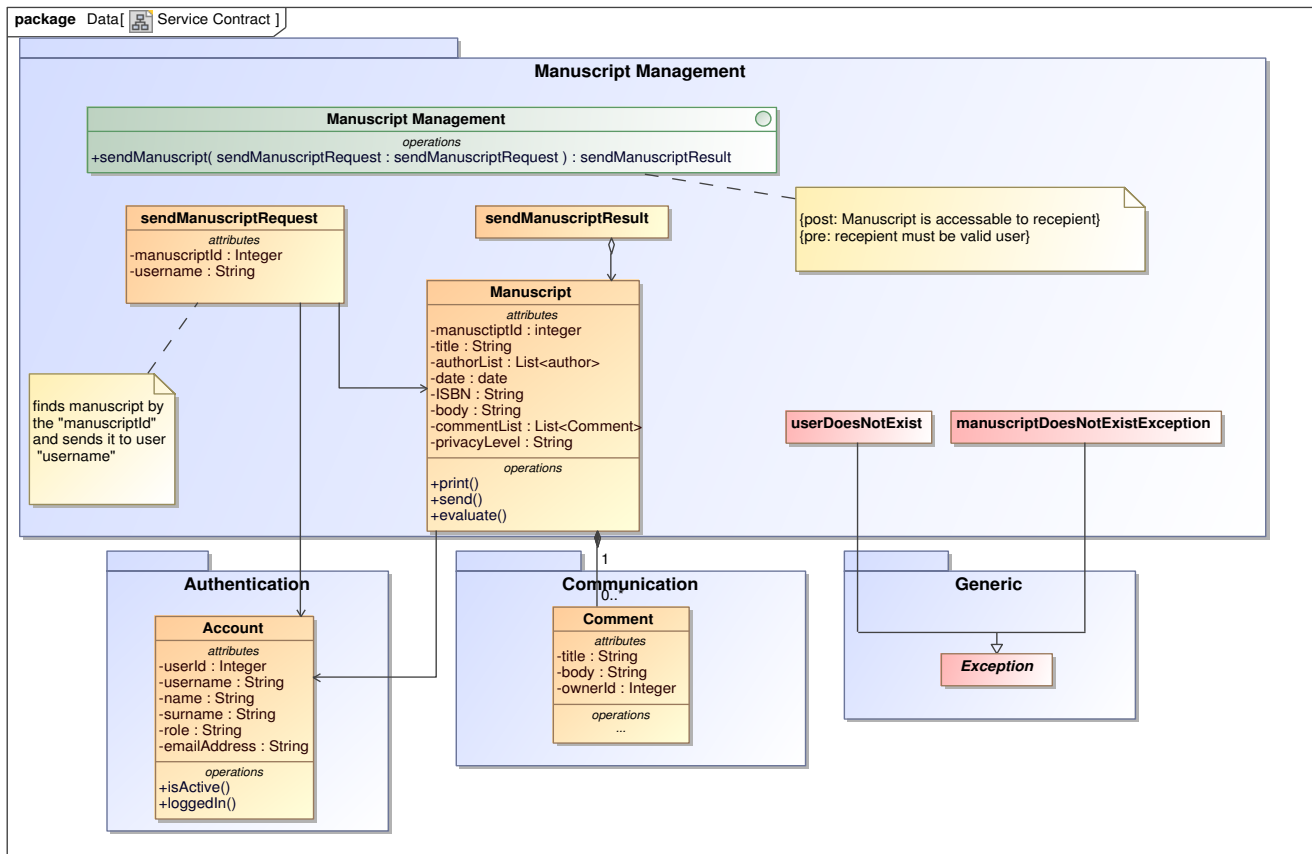   **Service Contract:** Below is a figure of the sendManuscript service contract.

Figure 15: Service contract for sending a manuscript
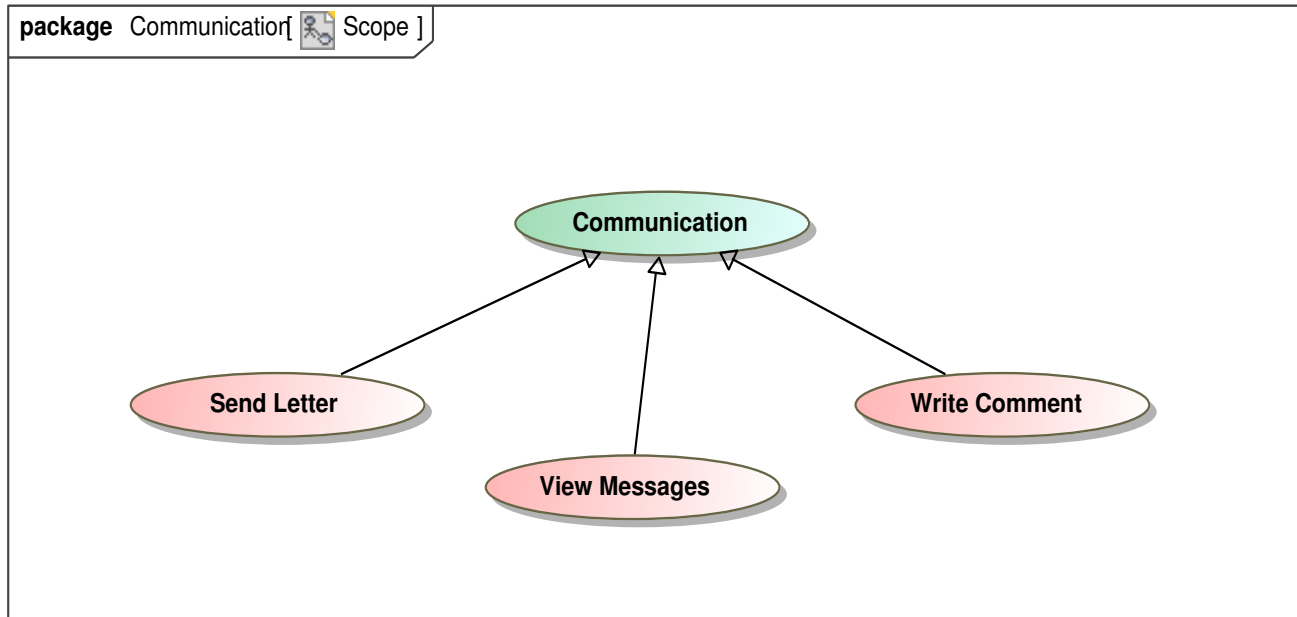
2.3 Communication

Figure 16: Scope of Communication module

2.3.1 scope

This section provides the details use case requirements for the use cases offered by the Authentication module.

2.3.2 Use Cases

1. **Send Letter - priority: critical**

   This use case allow the writing and sending of an appropriate letter to the corresponding user, such as a query letter to the agent. Available letters are: editorial letter, contract offer and query letter

2. **View Letter - priority: critical**

   This use case allows a user to view one of the letters sent to him/her. The letter can be an editorial letter, contract offer or query letter etc.

   service contract: Below is a diagram of a service contract of viewing a letter.
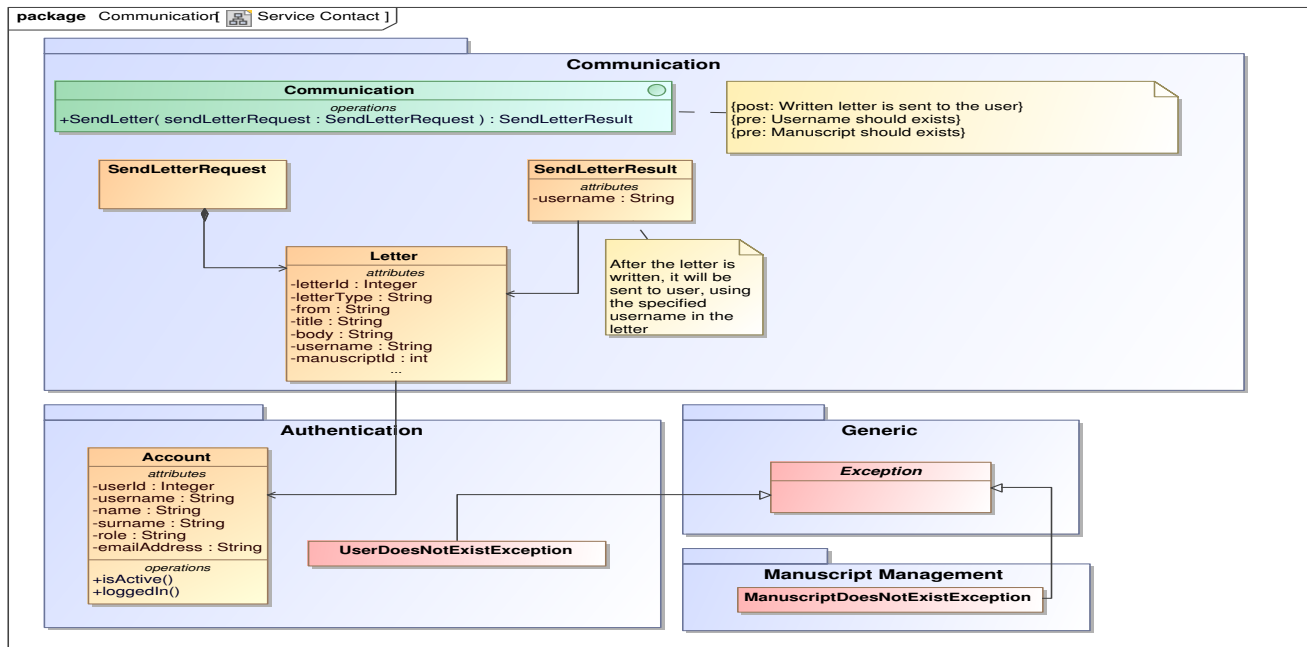
Figure 17: Service contract for sending a letter

3. **Write Comment**

2.4 Reporting

2.4.1 scope

This section provides the details use case requirements for the use cases offered by the Authentication module.

2.4.2 Use Cases

1. **CreateSchedule - priority: important**

   This use case allows a user to create a work schedule for the book that may consist of multiple tasks.

2. **ViewSchedule - priority: important**

   This use case allows a user to view the work schedule for the book.

3. **EditSchedule - priority: important**

   This use case allows a user to make changes to the work schedule of the book.

   service contract: below is the service contract for editing a work schedule

4. **createReport - priority: important**

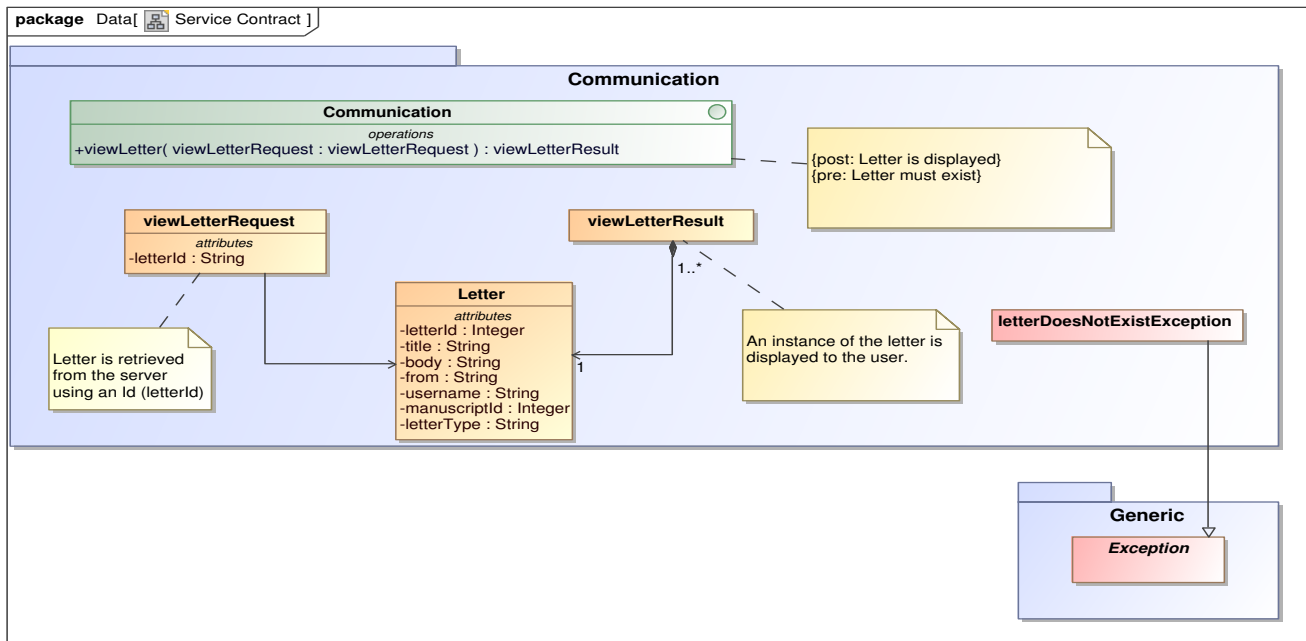   This use case creates a report based on filters and provides it in printable format.

Figure 18: Service contract for viewing a letter

service contract: The service contract for the createReport service is shown in figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the report is created and return in a printable format.

5. **viewReport - priority: important**

   This use case allows users to view a generated report, on the system (before exporting to say, a pdf for example).

   service contract: Below is the service contract for viewing a report.

6. **exportReport**

   priority: important This use case which allows one to export a manuscript

   service contract:

2.5   Design

2.5.1   scope

This section provides the details use case requirements for the use cases offered by the Authentication module.

2.5.2   Use Cases
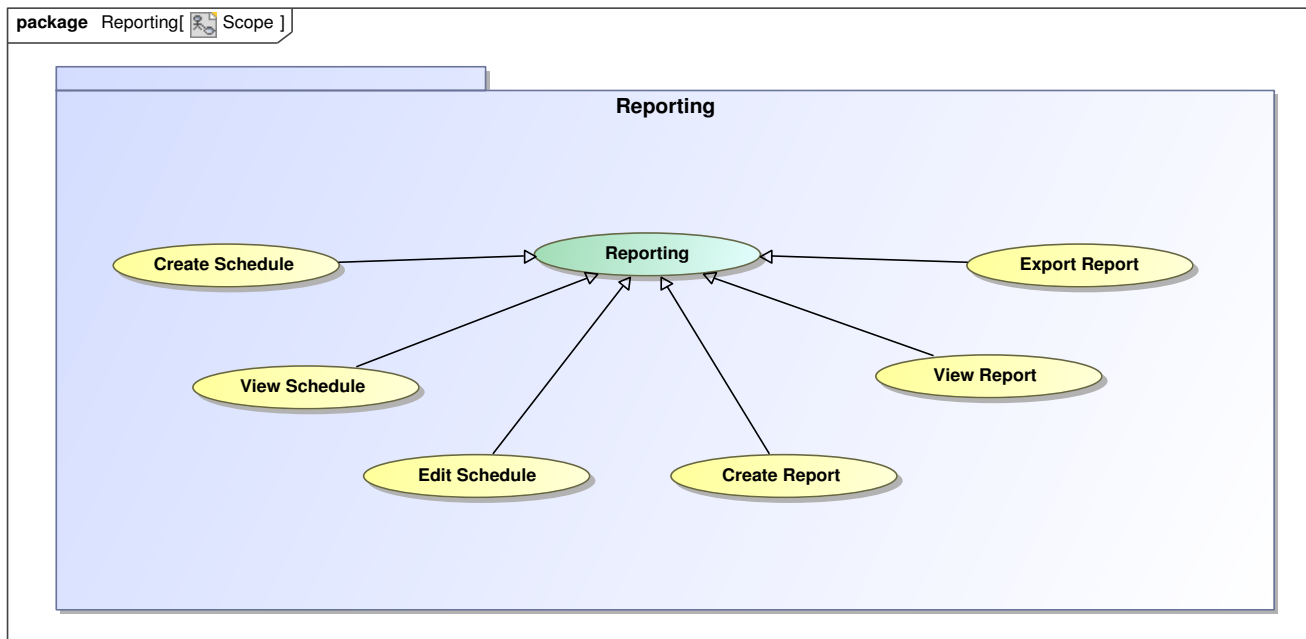
1. **structurePages - priority: critical**

Figure 19: Scope of Reporting module

This use case which allows one to structure the manuscript.
service contract:

2. **createTemplate - priority: nice to have**

This module allows a user to create a template design for the book.
service contract: Below is the service contract for creating a template.

3. **createBookCover - priority: critical**

This use case which allows create a book cover for a manuscript.
service contract:

4. **uploadGraphic - priority: important**

This use case allows a user to open any graphic they choose. This may be a new font, or image they wish to use, or a completed cover for the book. Size and format of a graphic are restricted however.
service contract: Below is the service contract for uploading a graphic.
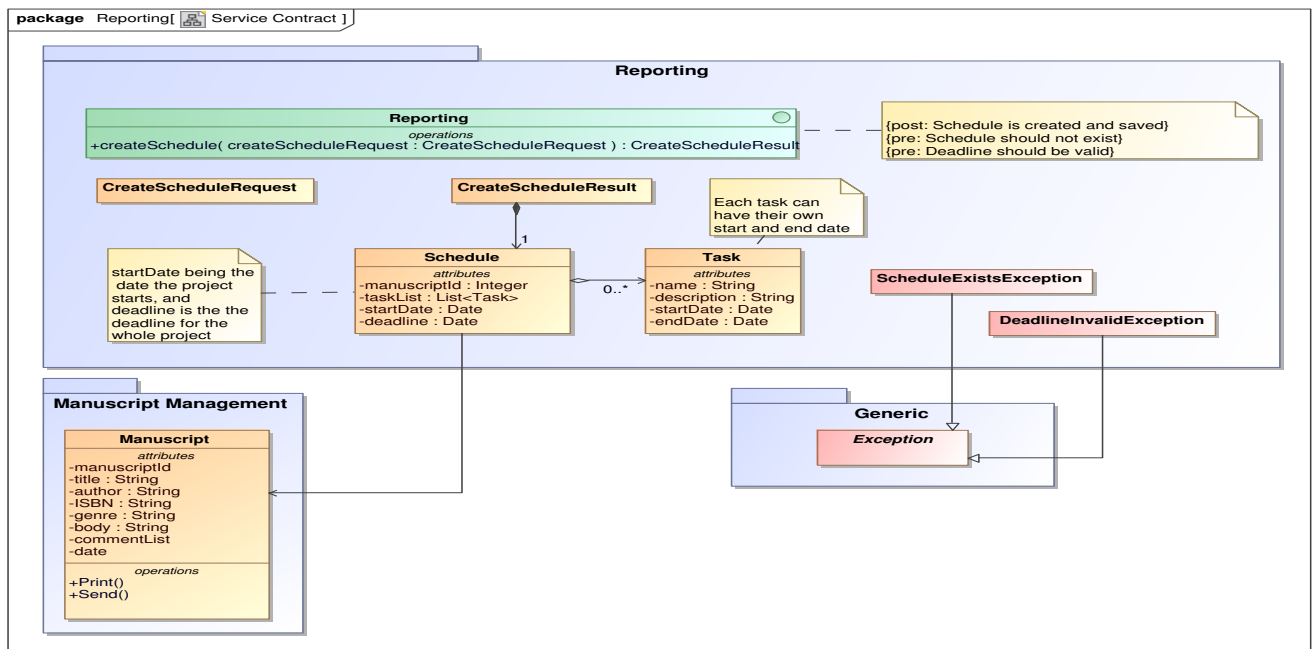
Figure 20: Service contract for creating a work schedule
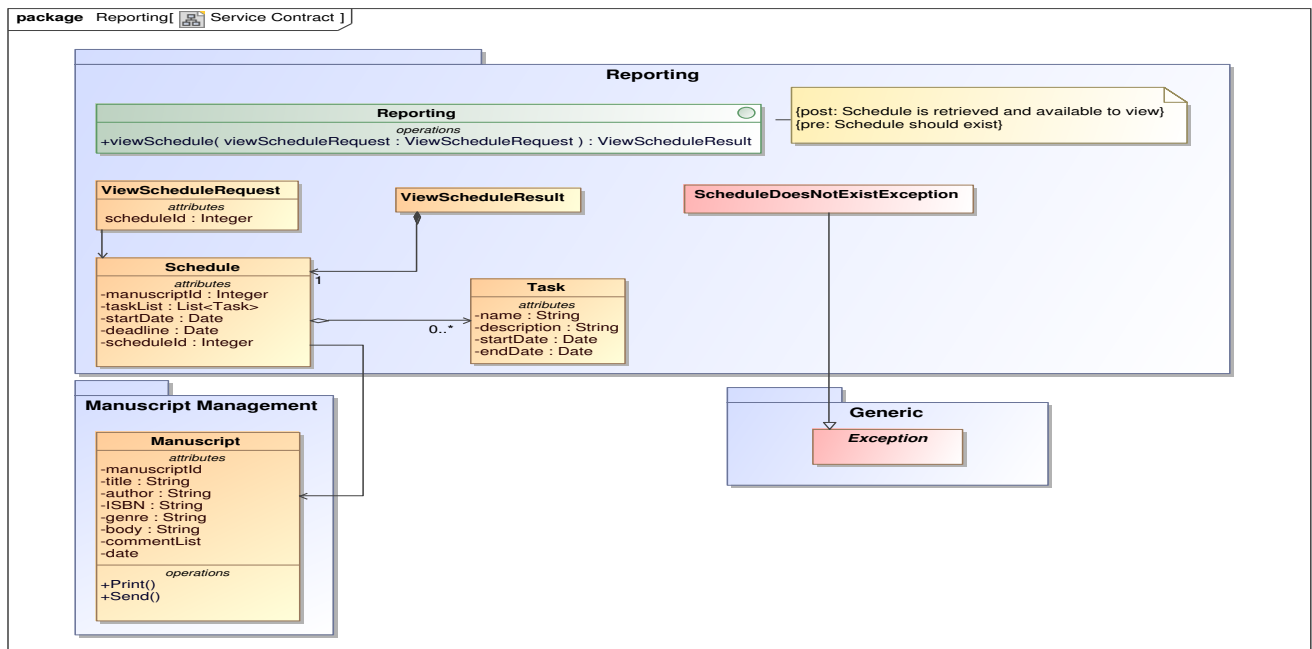

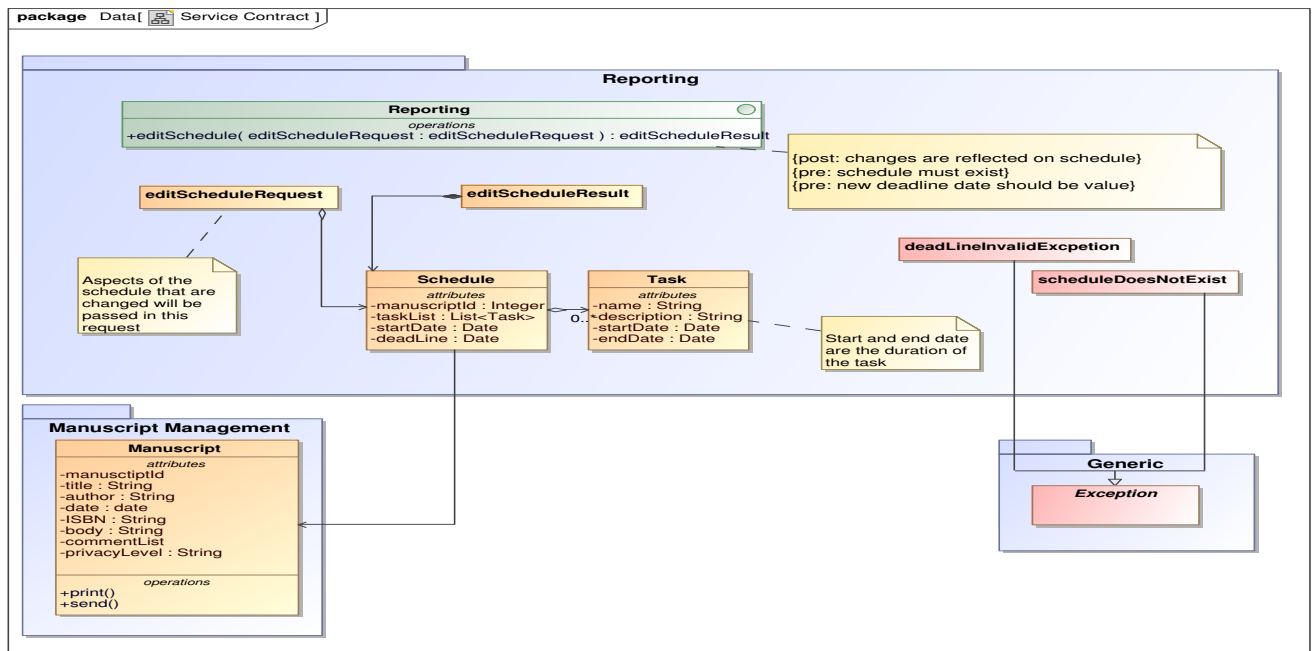Figure 21: Service contract for viewing a work schedule

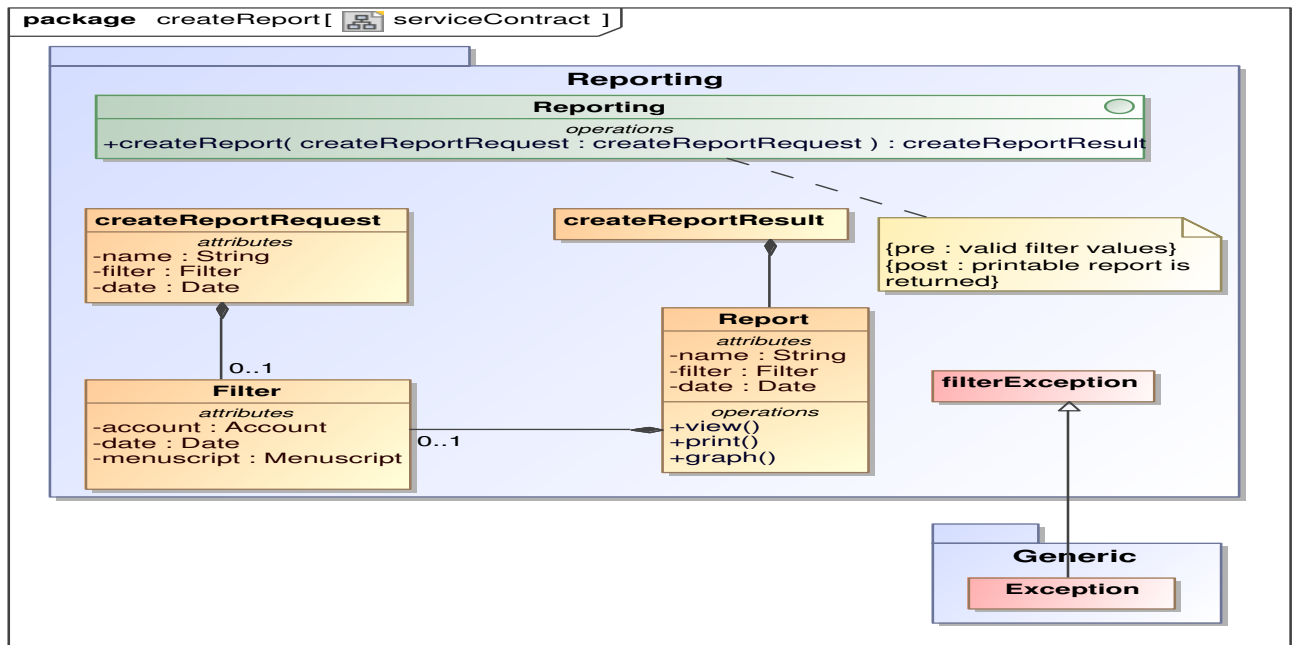Figure 22: Service contract for editing a work schedule

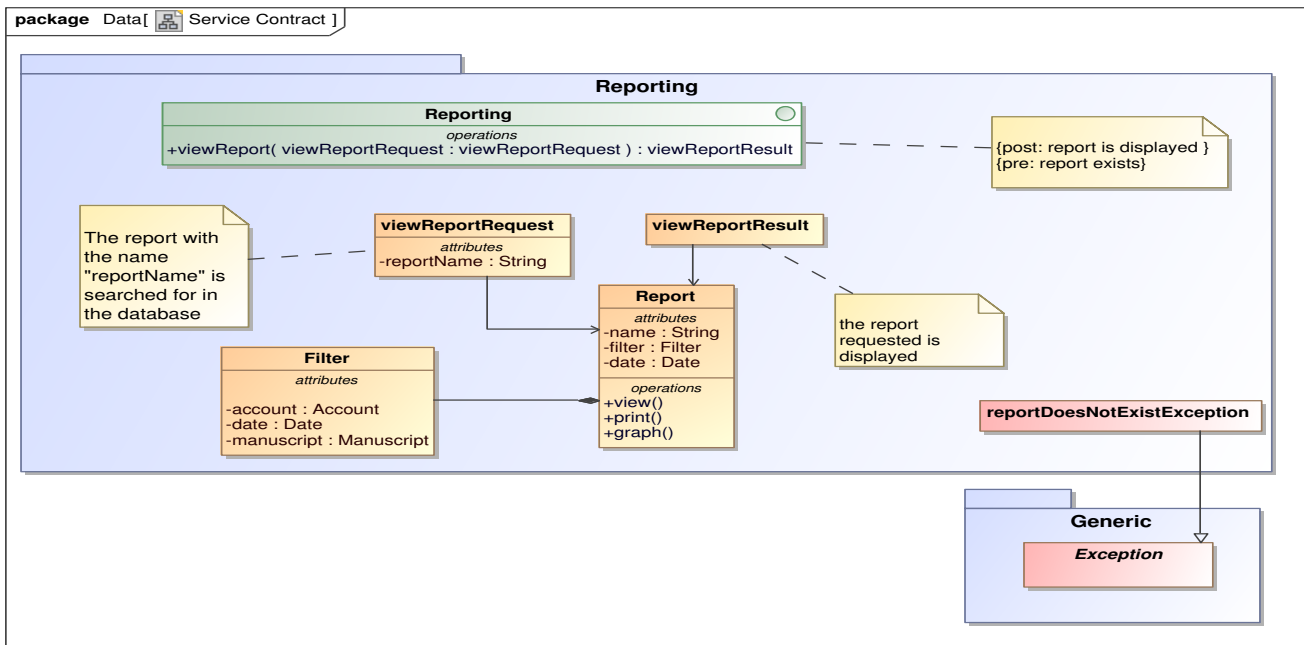Figure 23: Service contract for creating a report

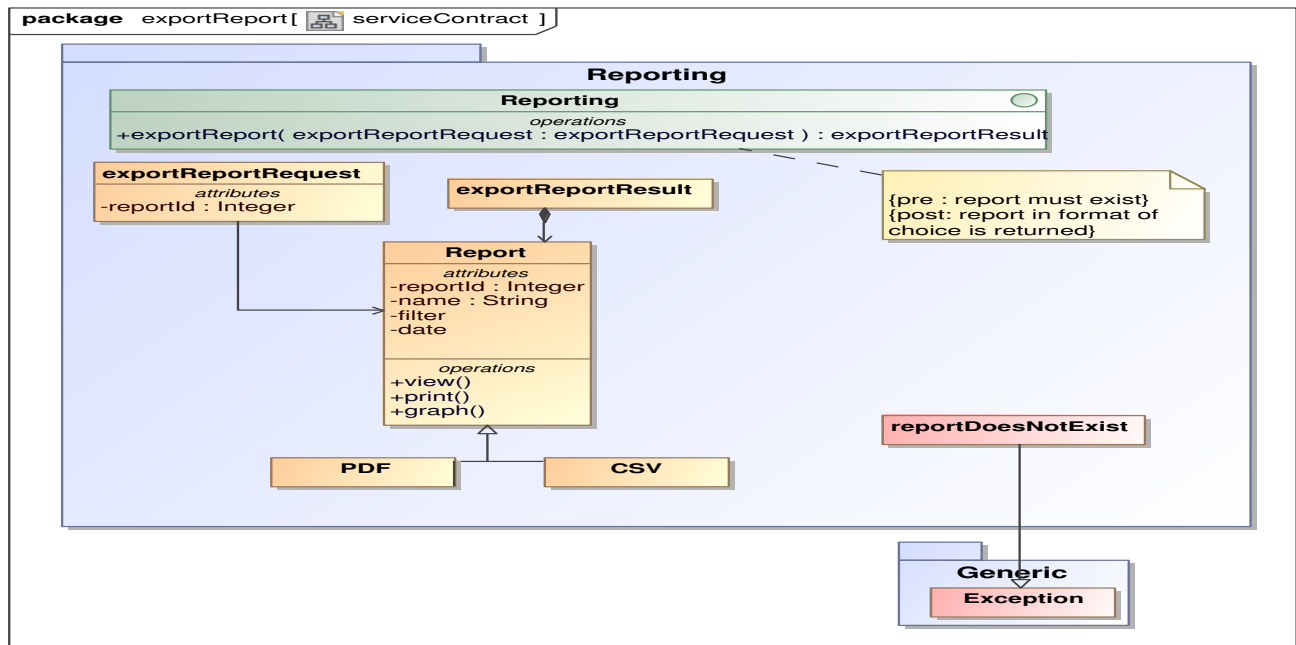Figure 24: Service contract for viewing a report
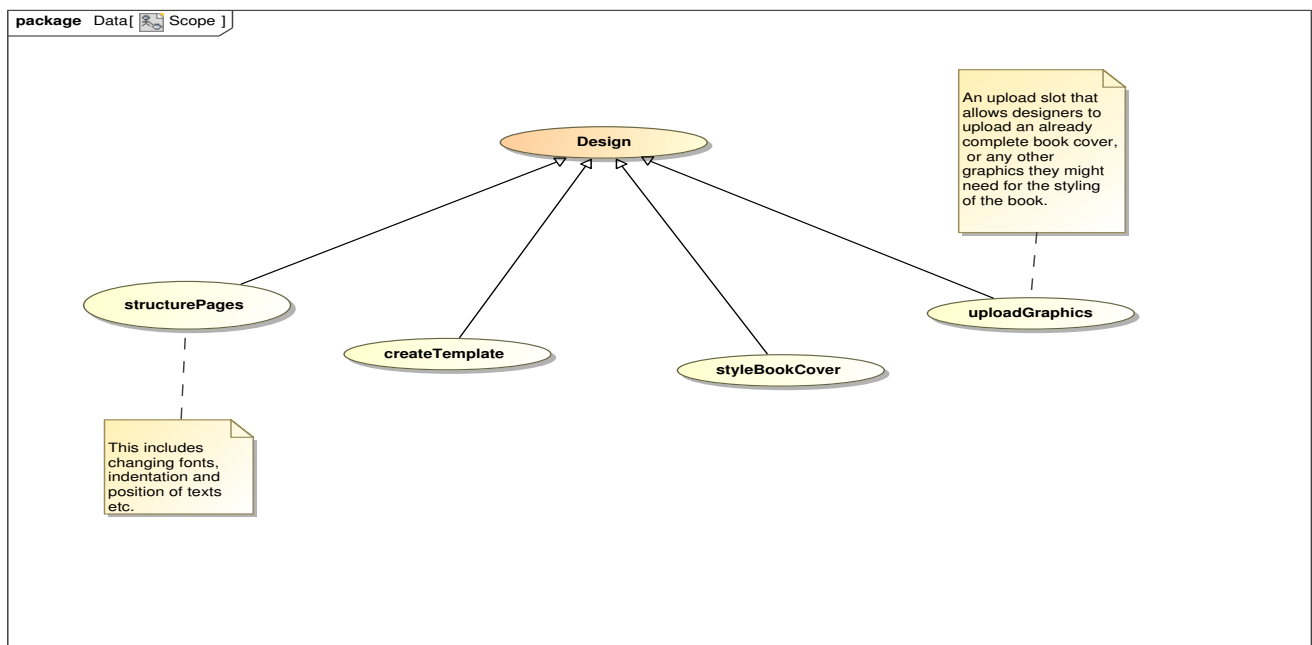

Figure 25: Service contract for exporting a report
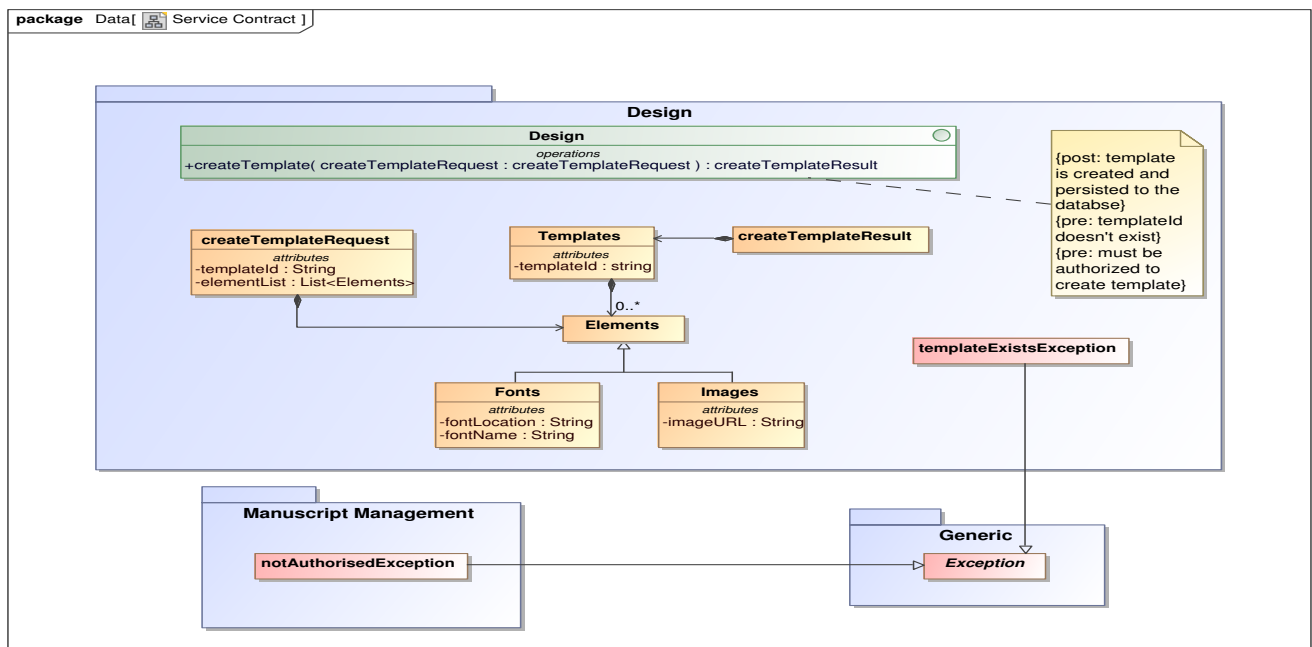
Figure 26: Scope of Design module

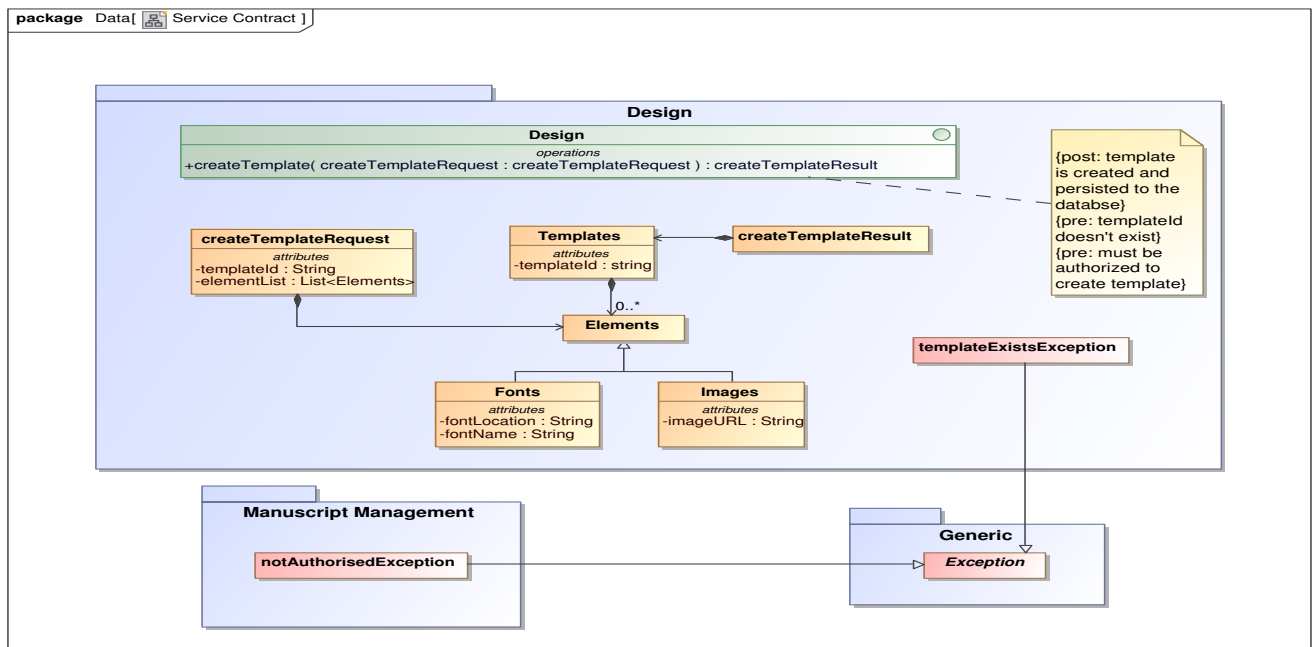Figure 27: Service contract for structuring a menuscript

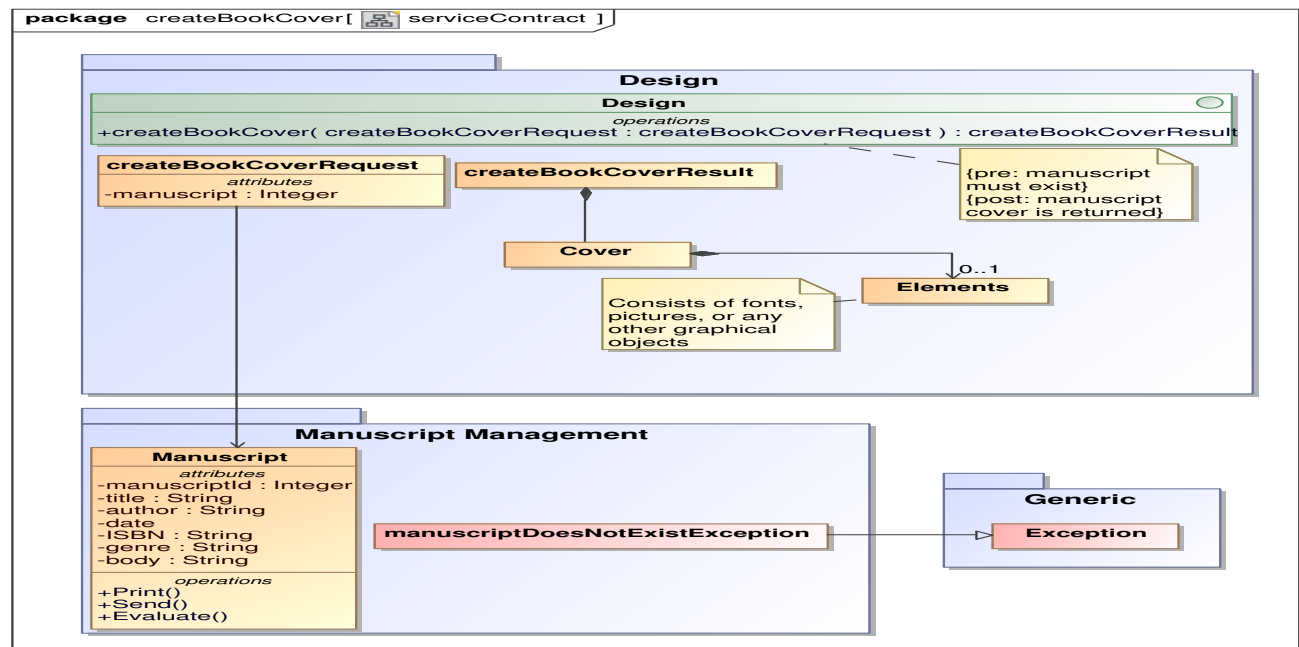Figure 28: Service contract for creating a template design
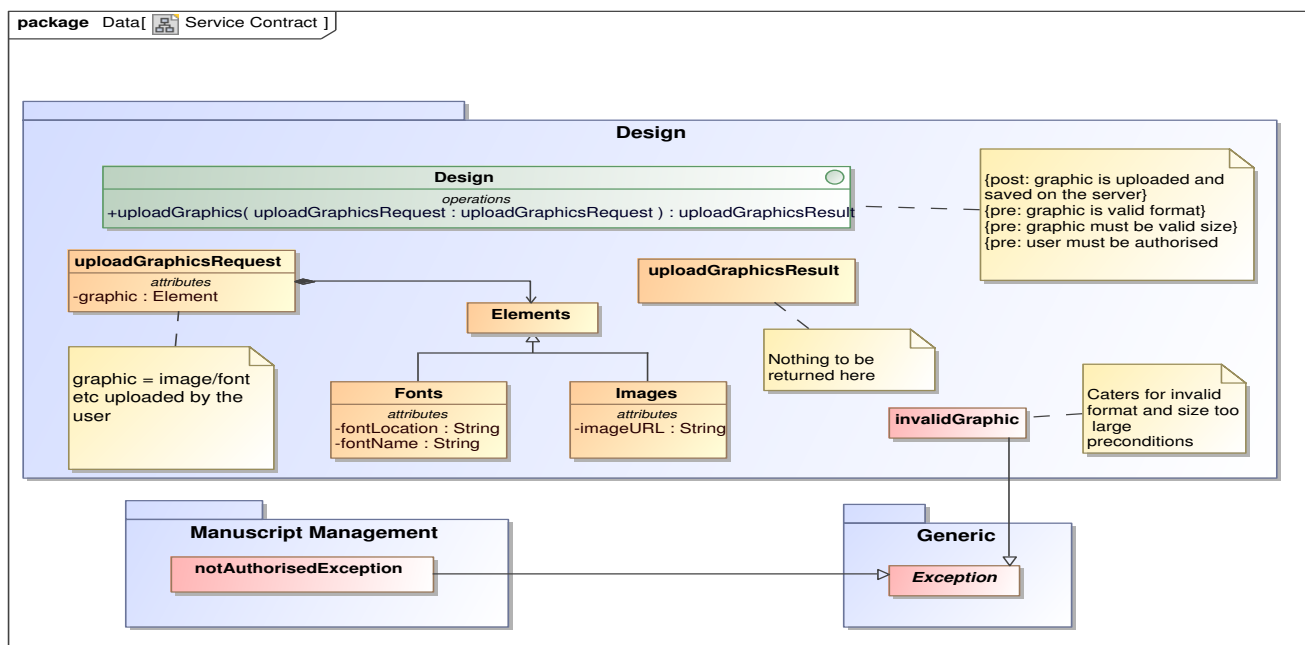

Figure 29: Service contract for creating a book cover

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Figure 30: Service contract for uploading a graphic