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UNIVERSITY OF 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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1 Vision and scope

1.1 Project Background

1.2 Project vision

1.3 Project scope

2 Application requirements and design

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.

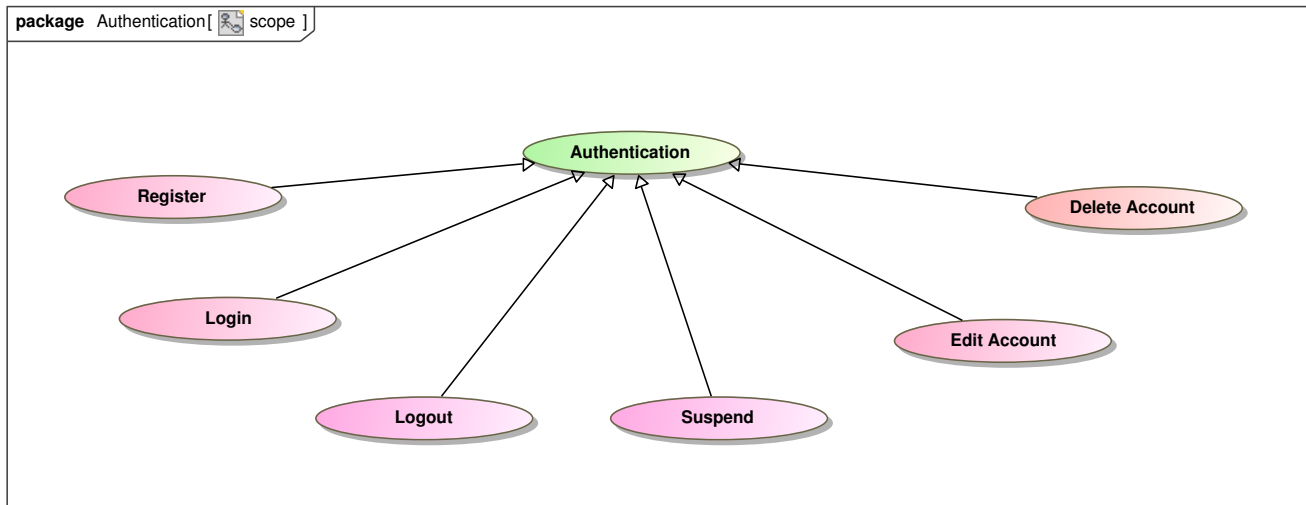


Figure 1: Scope for authentication module

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.

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.

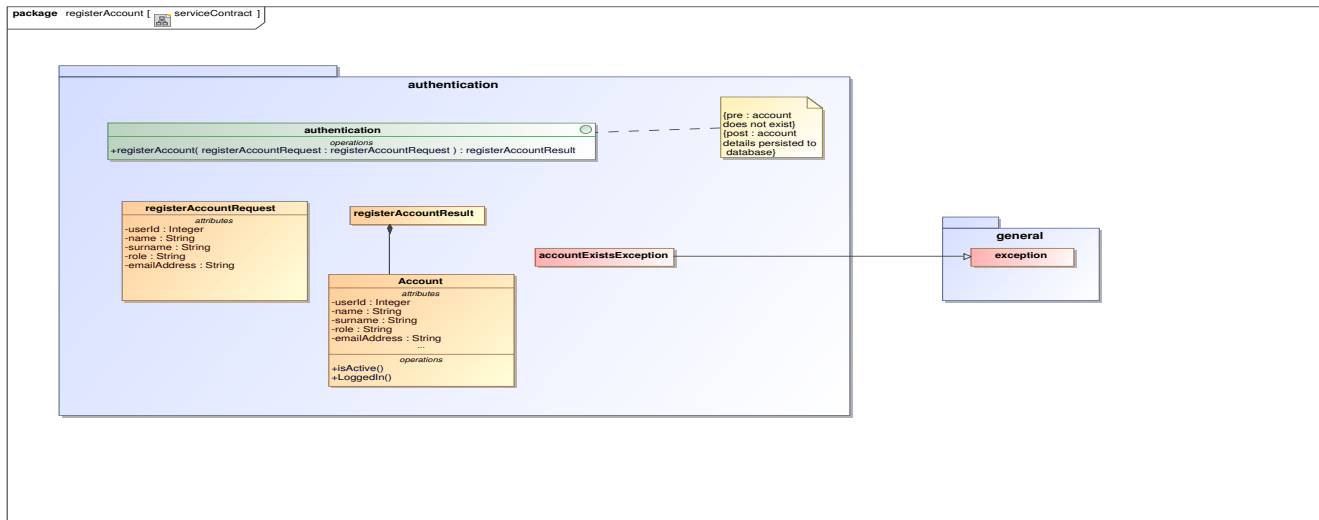


Figure 2: Service contract for logging into a user account

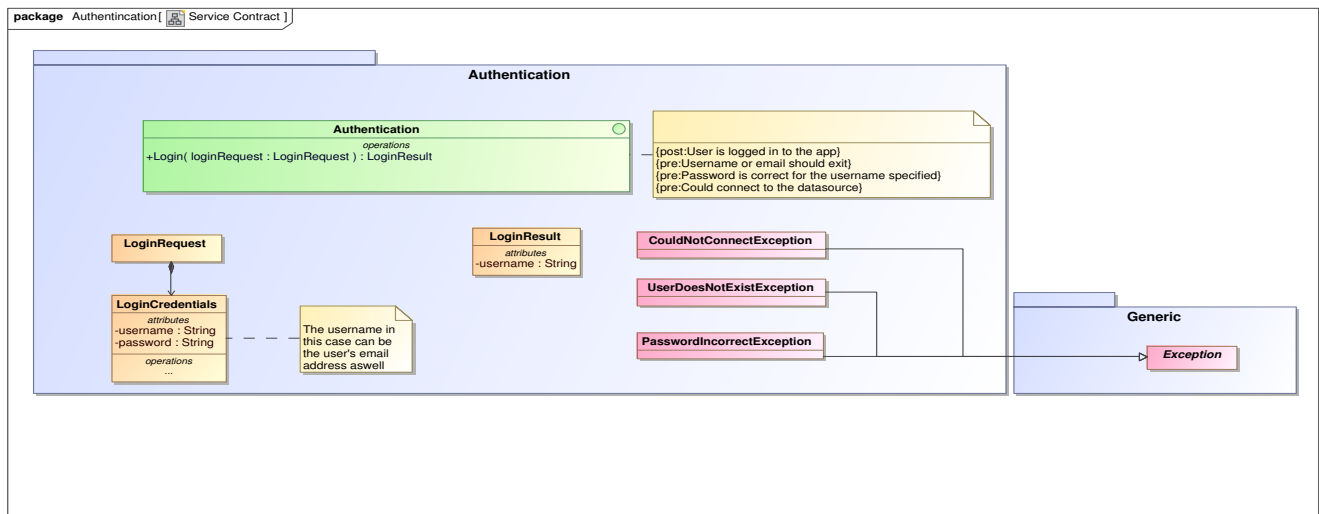


Figure 3: Service contract for logging into a user account

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.

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.

6. SuspendAccount - priority: important

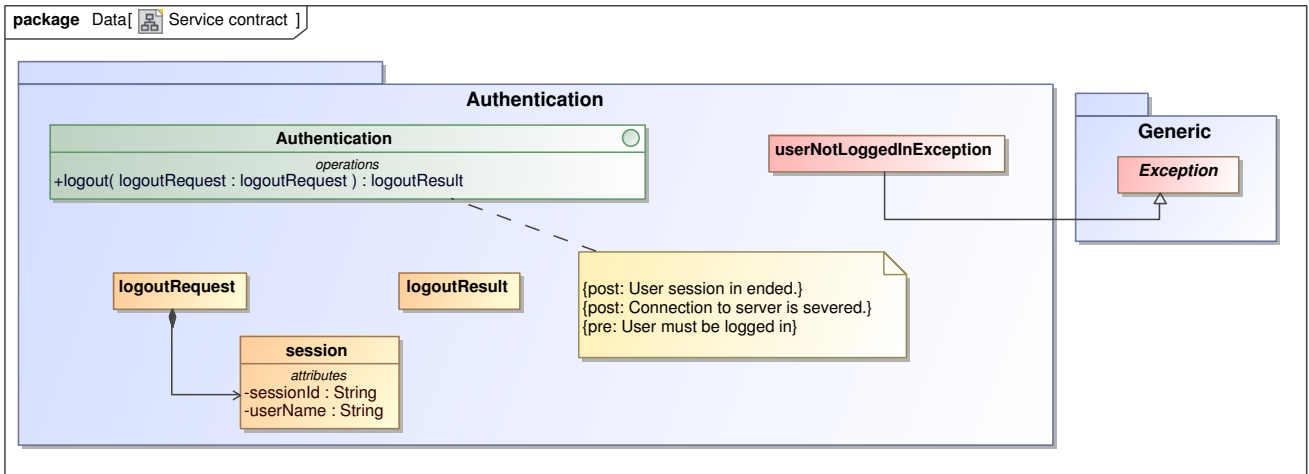


Figure 4: Service contract for logging a user out of the system

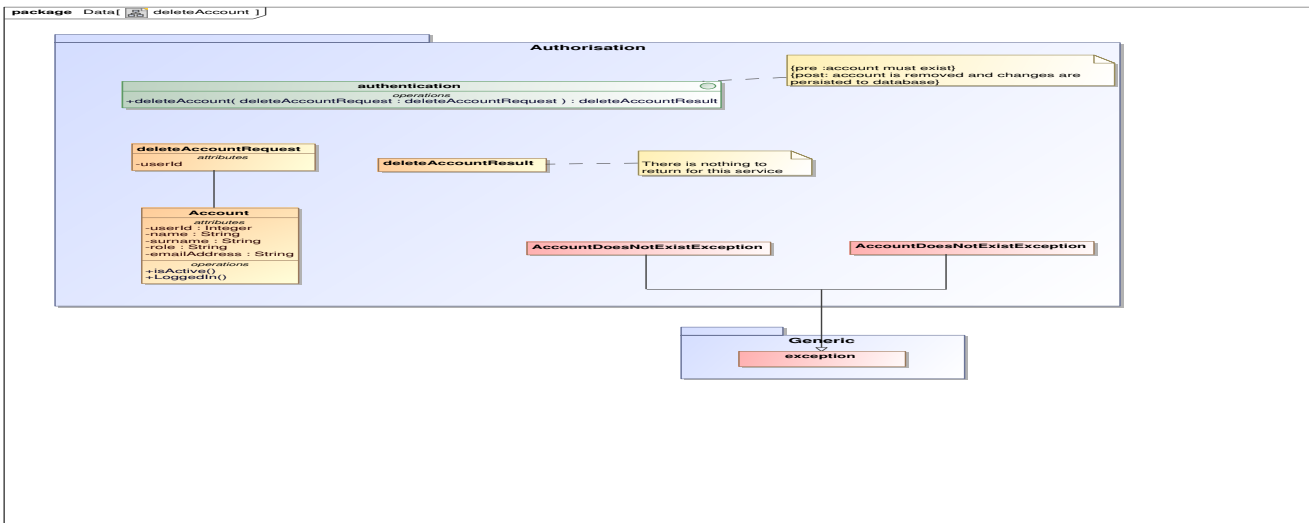


Figure 5: Service contract for deleting a users account

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.

2.2 Manuscript Management

2.2.1 scope

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

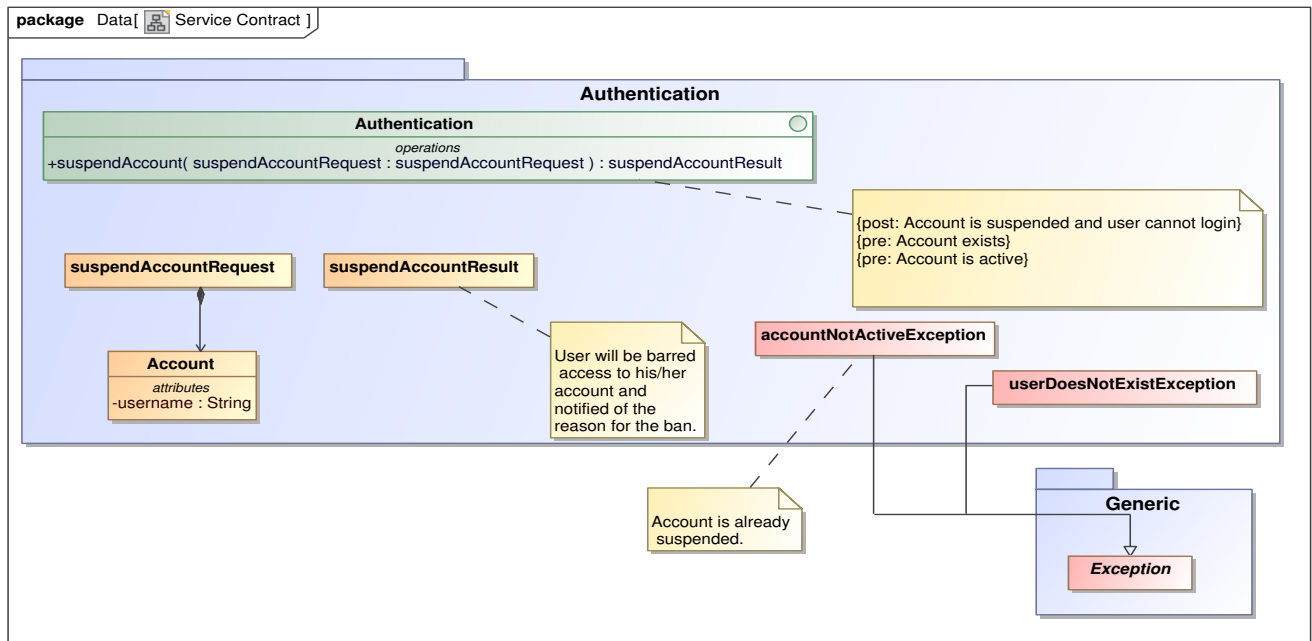


Figure 6: Service contract for suspending a users account

2.2.2 use cases

1. Create Manuscript - priority: critical

This use case creates a new project. It allows the user to give the manuscript a name and specify the privacy setting on it.

service contract: below is a figure of the createManuscript service contract.

2. deleteManuscript priority: important

This use case which removes manuscript and persists changes to the database.

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

3. linkToSocialMedia priority: important

important This use case which link manuscript to social media and create an automated post

service contract: The service contract for the linkToSocialMedia service is shown in figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and a post for the manuscript of interest is created.

4. editManuscript priority: important

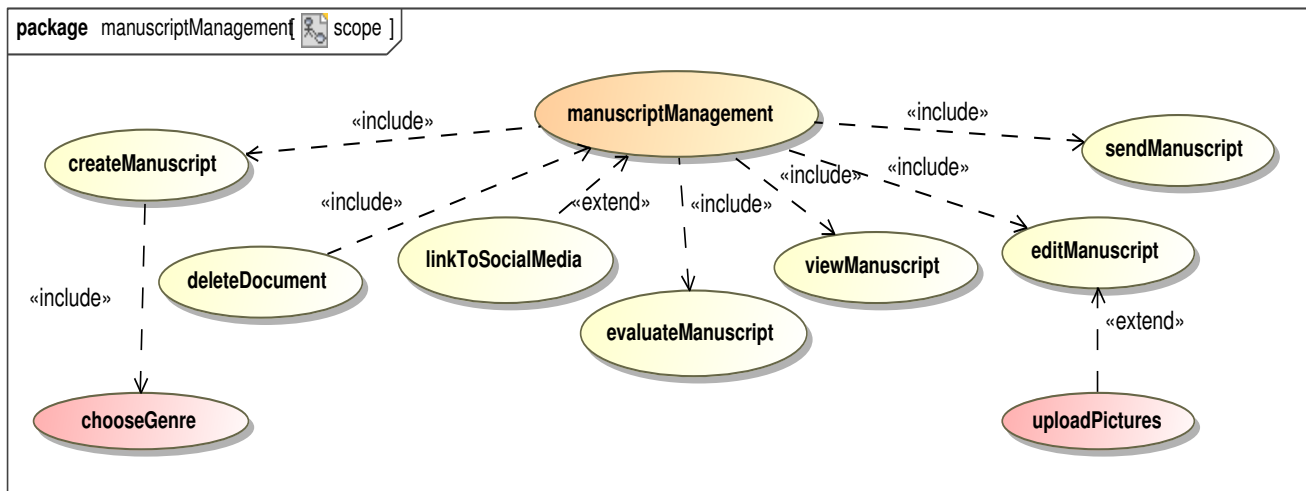


Figure 7: Scope for manuscript management module

This use case which allows one to edit manuscript and changes are persisted to database.

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

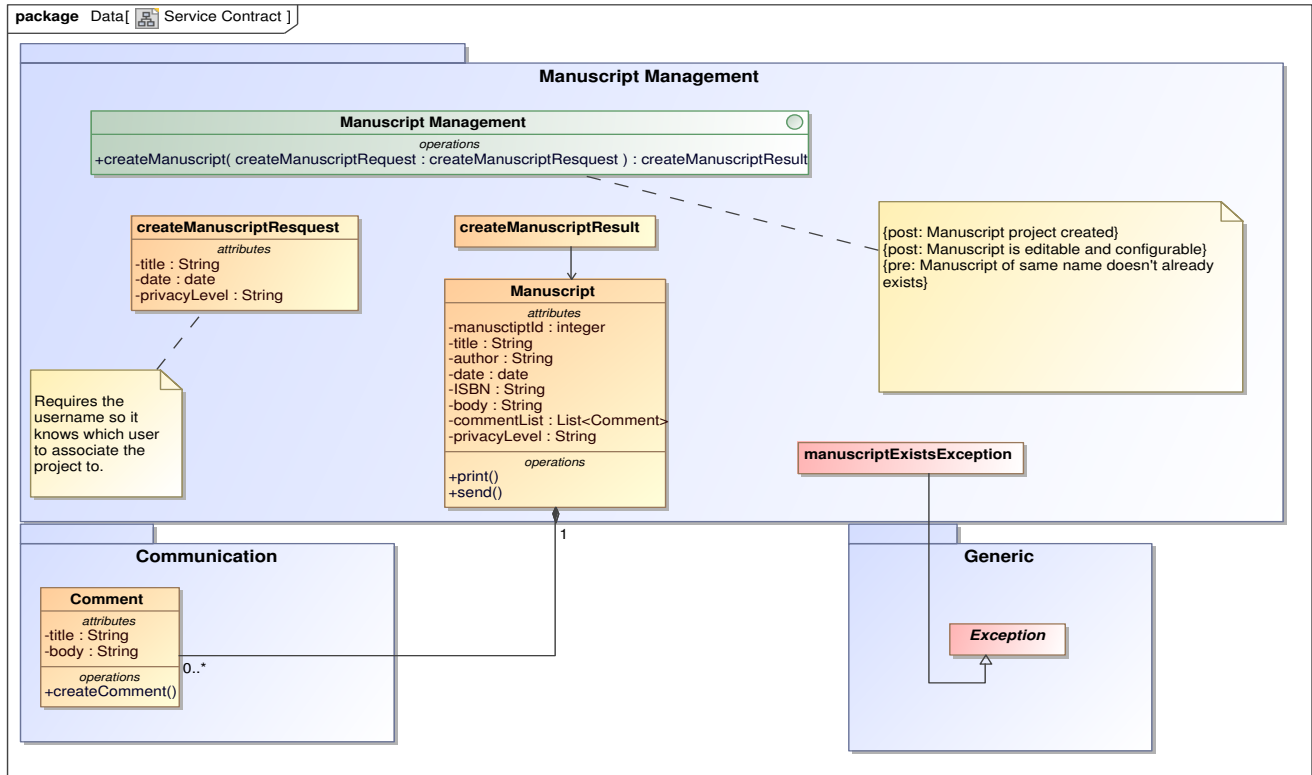


Figure 8: Service contract for creating a new project (manuscript)

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.

6. Read Manuscript - priority: critical

This use case grants access to users to view/read the 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.

2.3 Communication

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

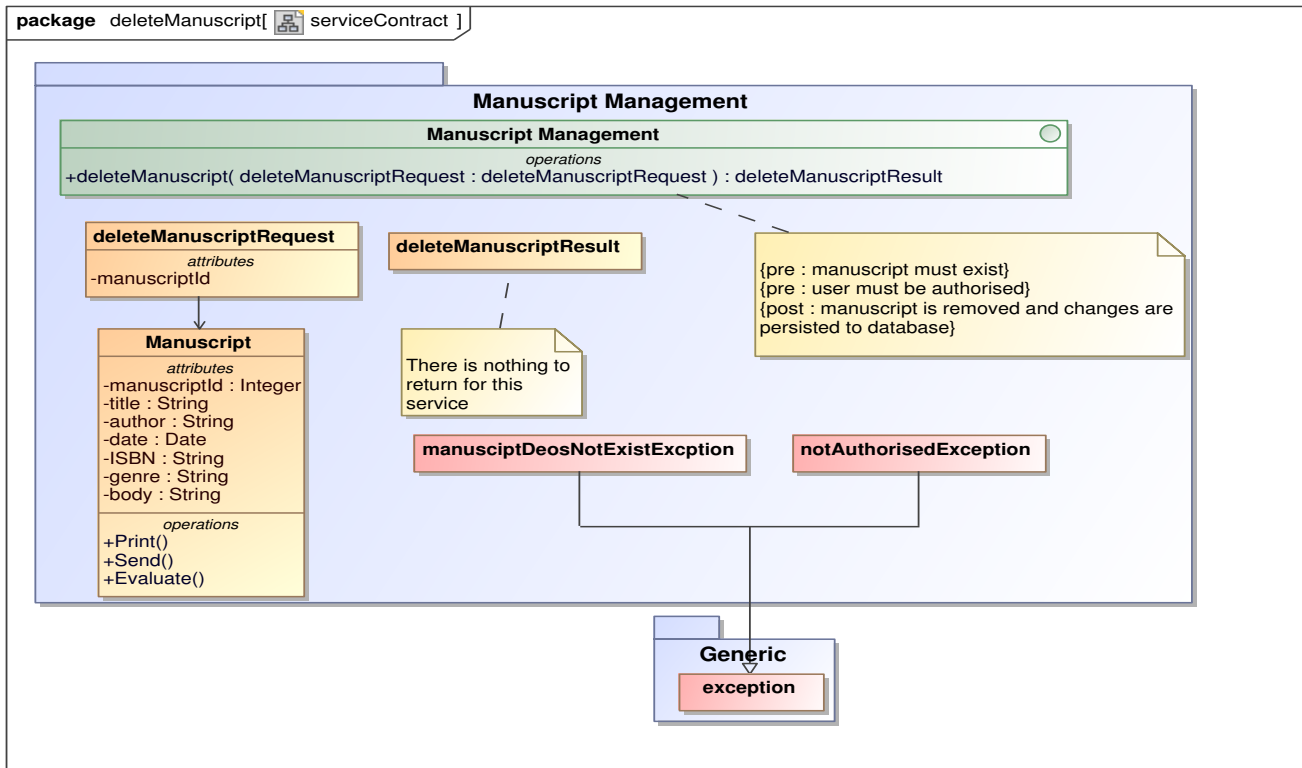


Figure 9: Service contract for deleting a project (manuscript)

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.

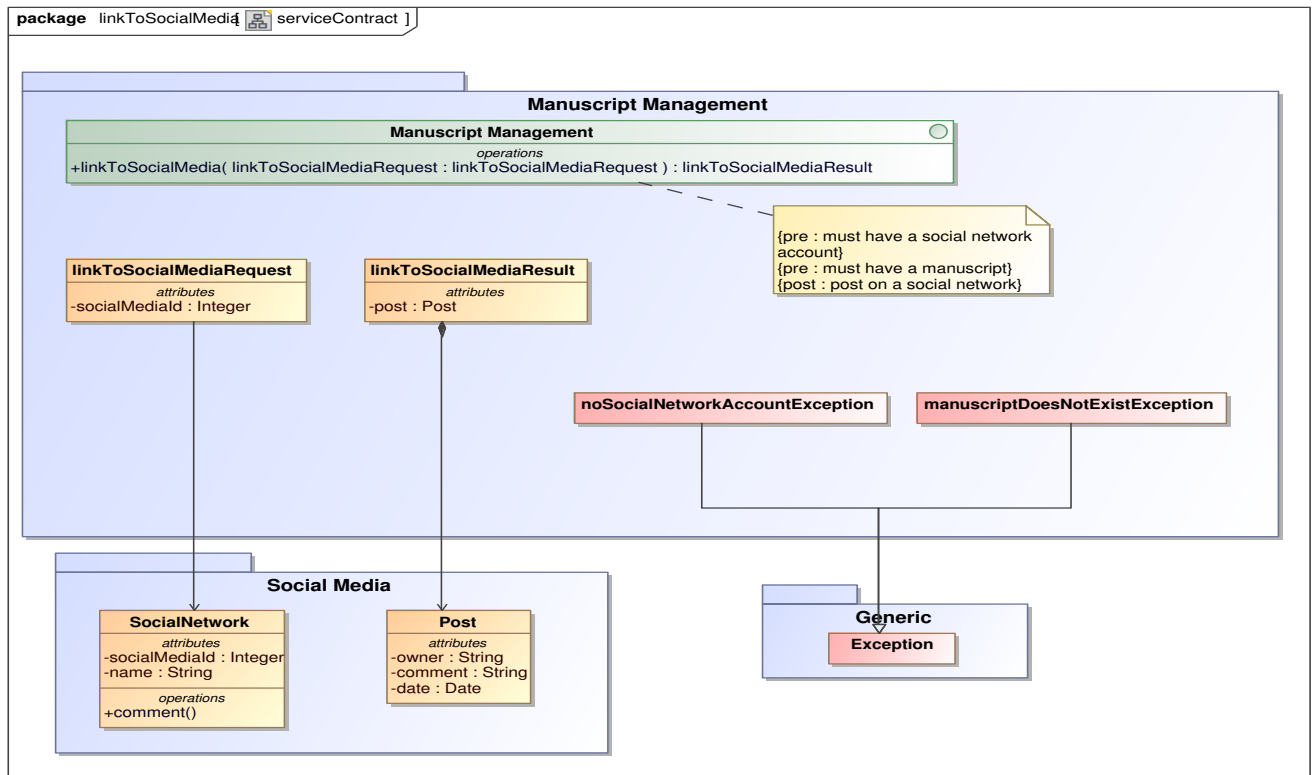


Figure 10: Service contract for linking a project (manuscript) to a social network

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

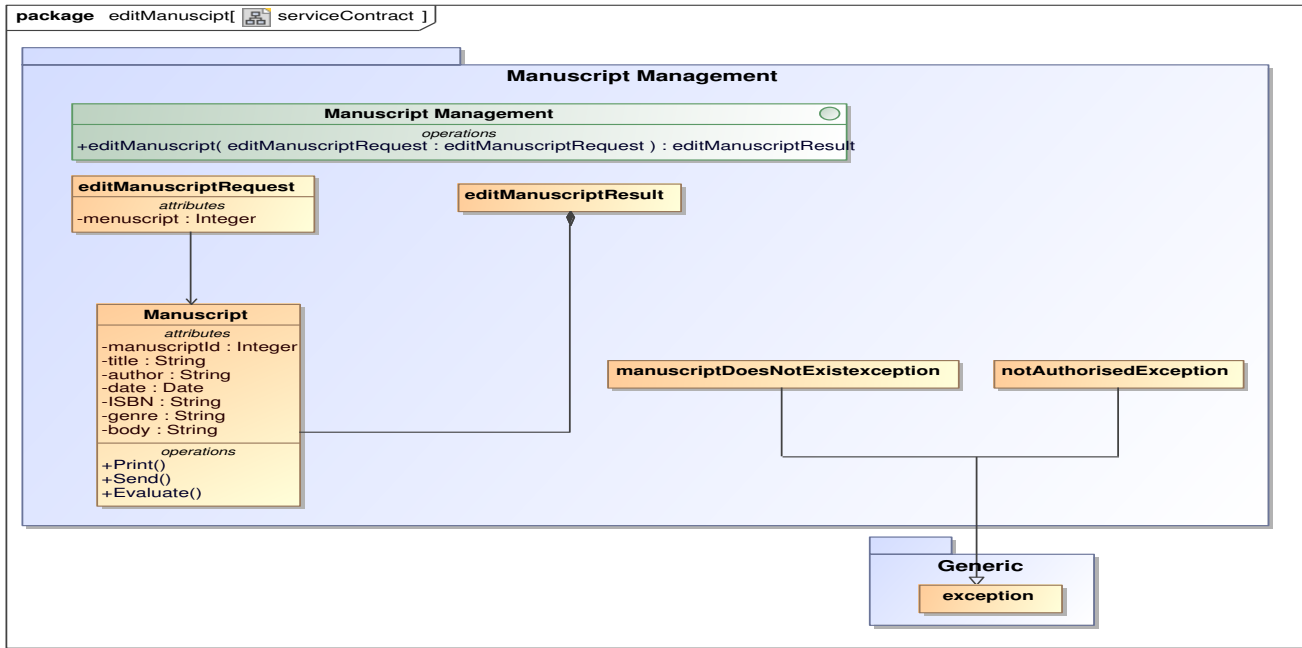


Figure 11: Service contract for editing a project (manuscript)

4. createReport - priority: important

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

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.

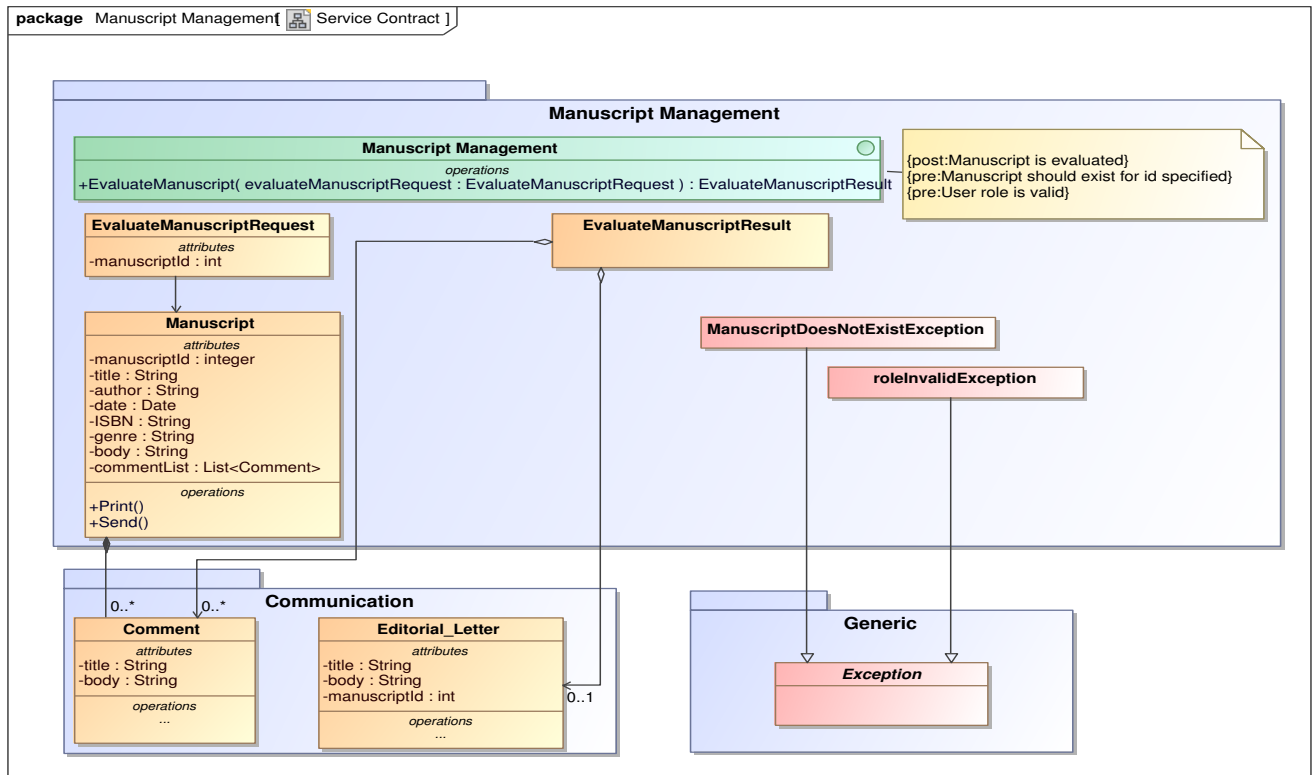


Figure 12: Service contract for evaluating a manuscript

2.5.2 use cases

1. structurePages - priority: critical

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.

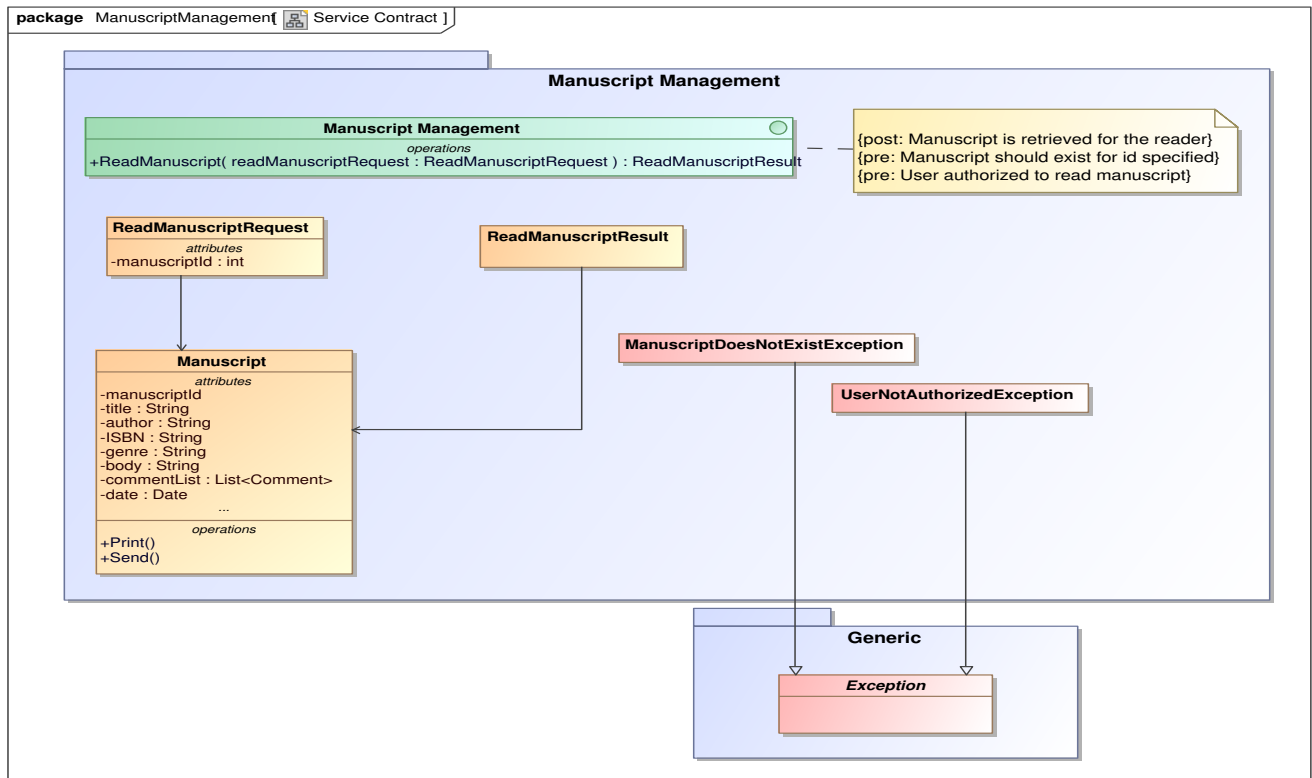


Figure 13: Service contract for reading a manuscript

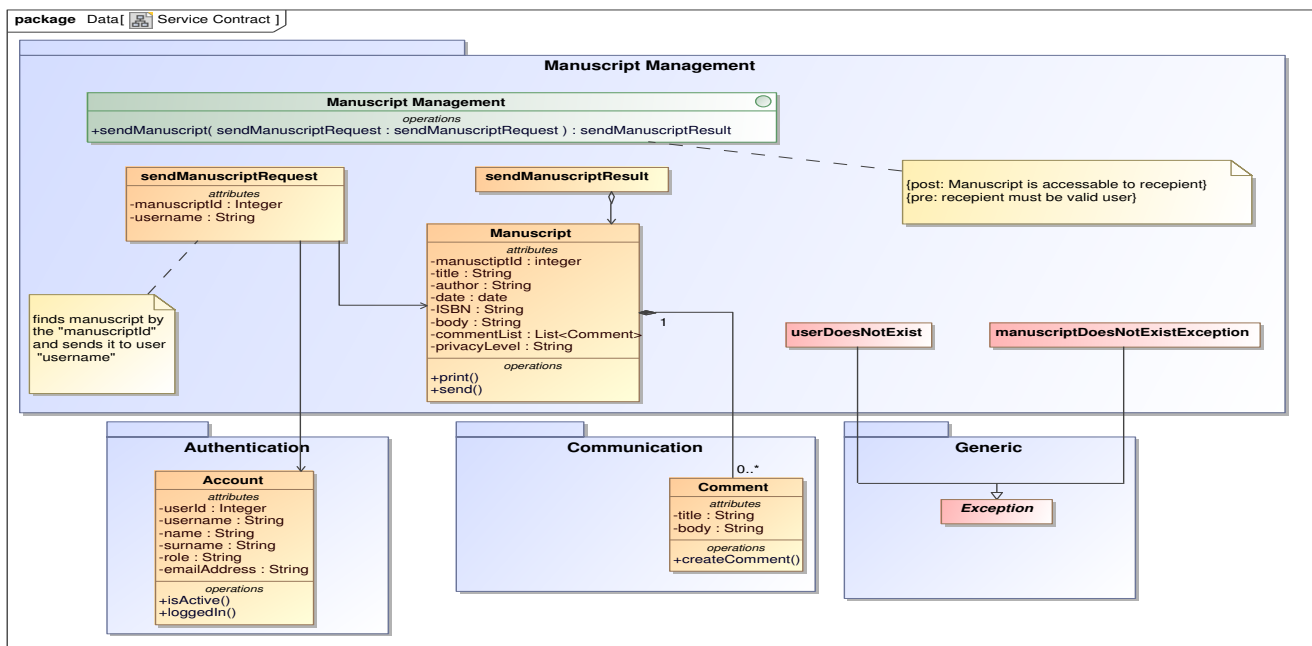


Figure 14: Service contract for sending a manuscript

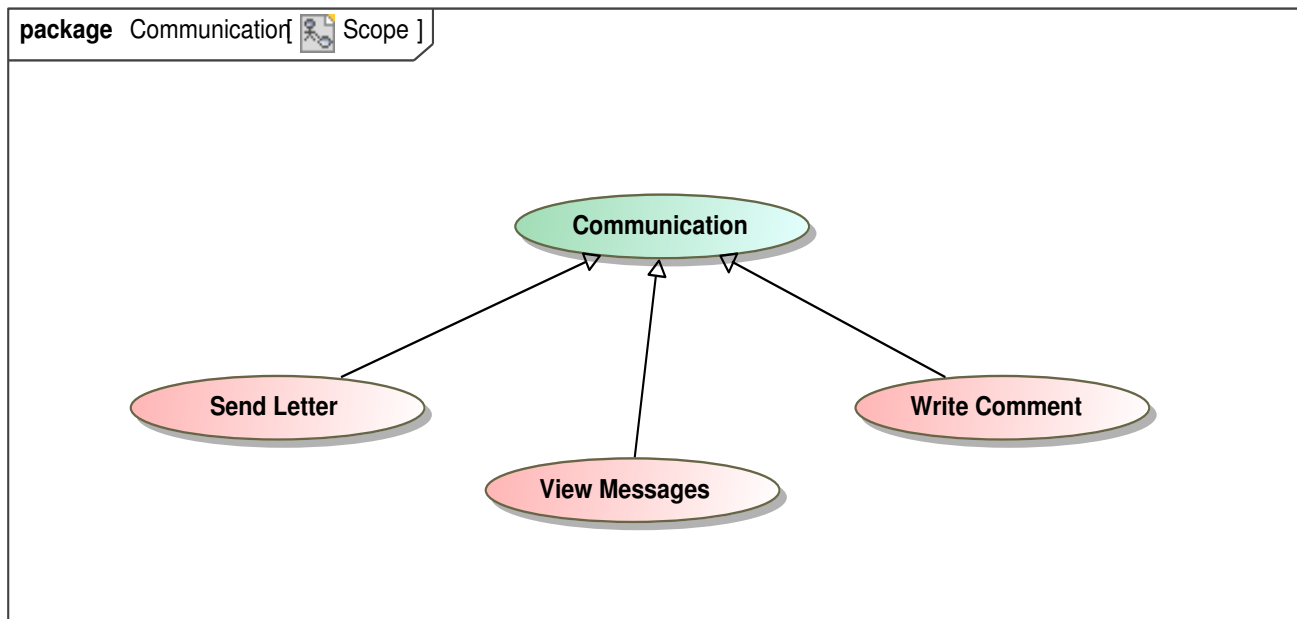


Figure 15: Scope of Communication module

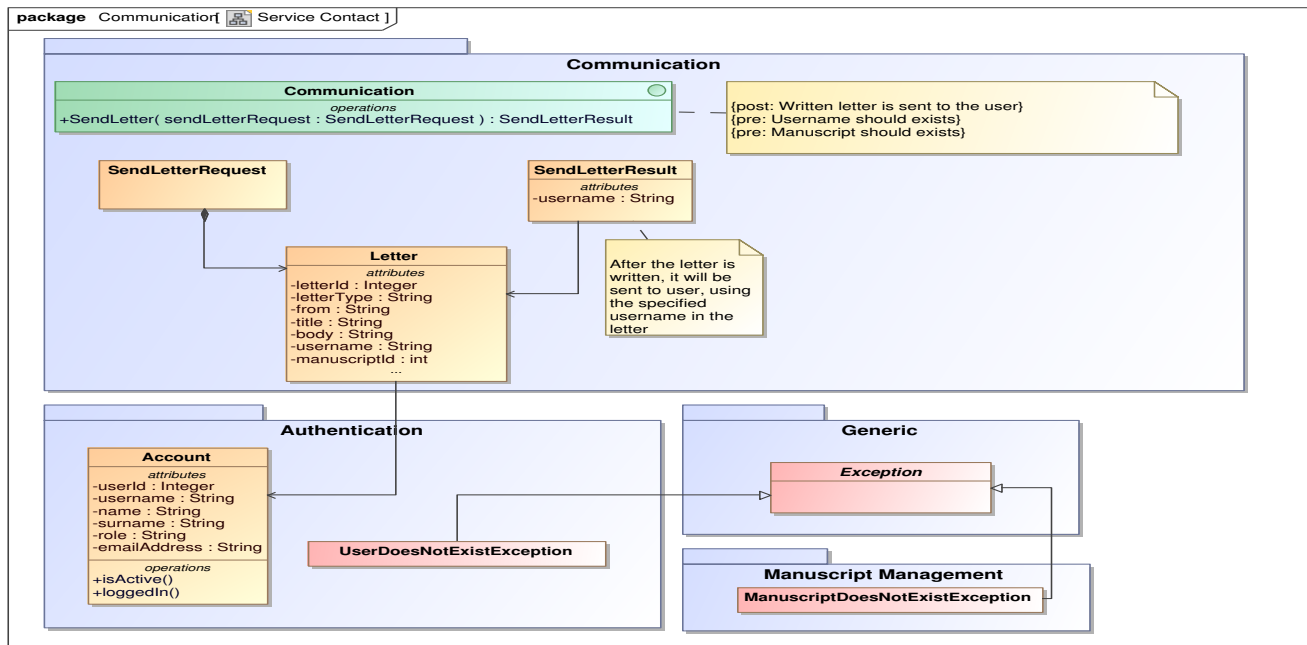


Figure 16: Service contract for sending a letter

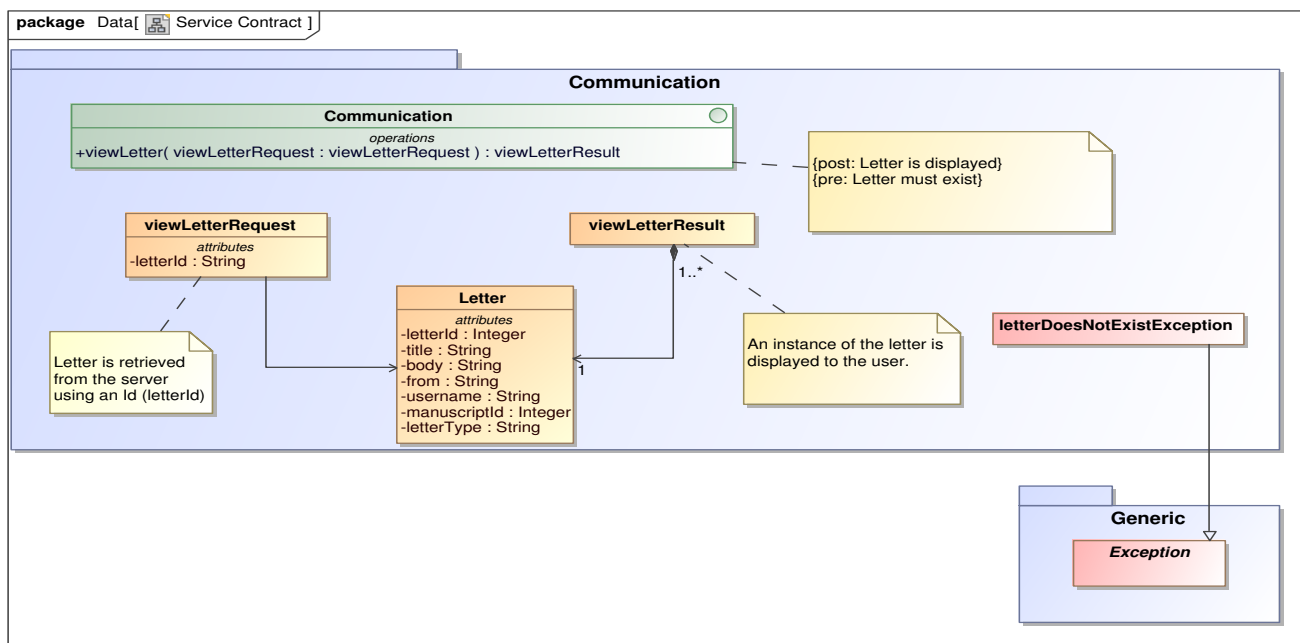


Figure 17: Service contract for viewing a letter

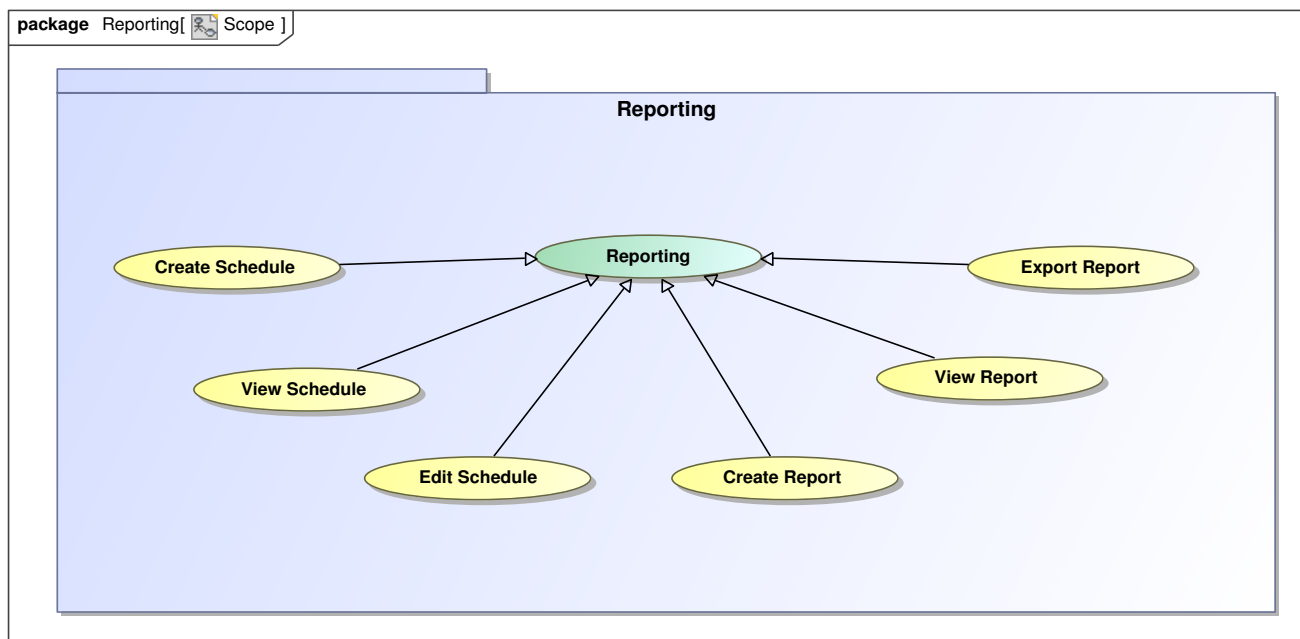


Figure 18: Scope of Reporting module

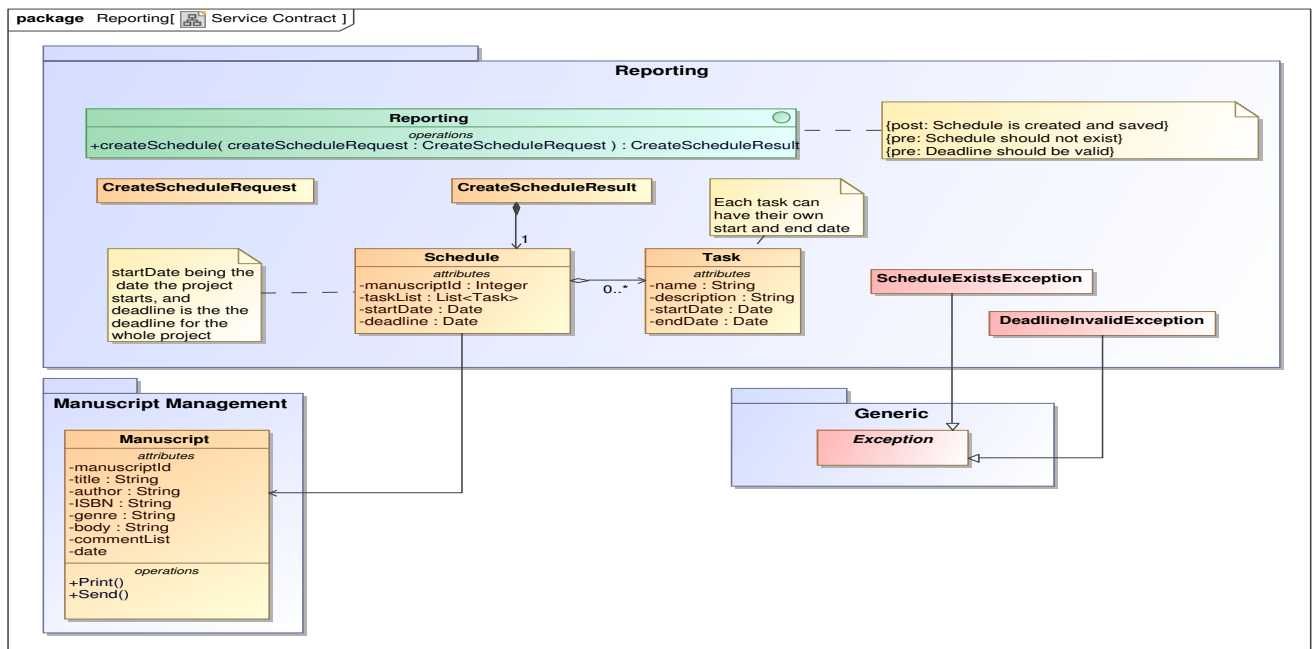


Figure 19: Service contract for creating a work schedule

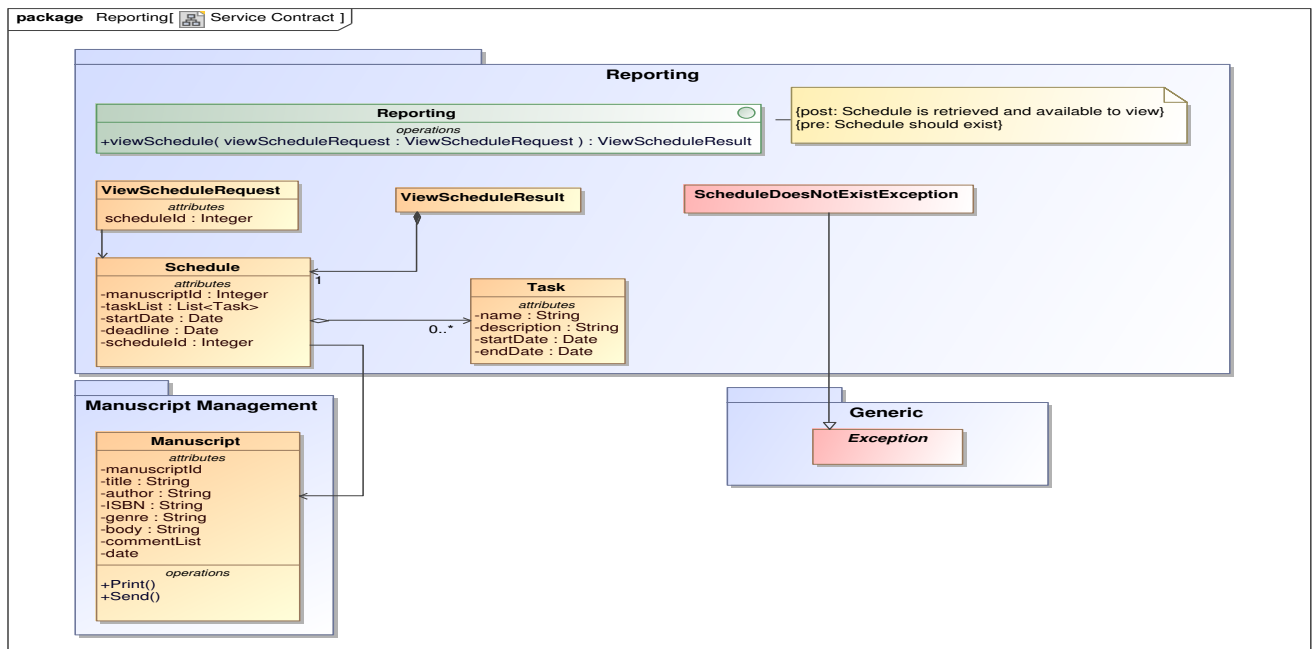


Figure 20: Service contract for viewing a work schedule

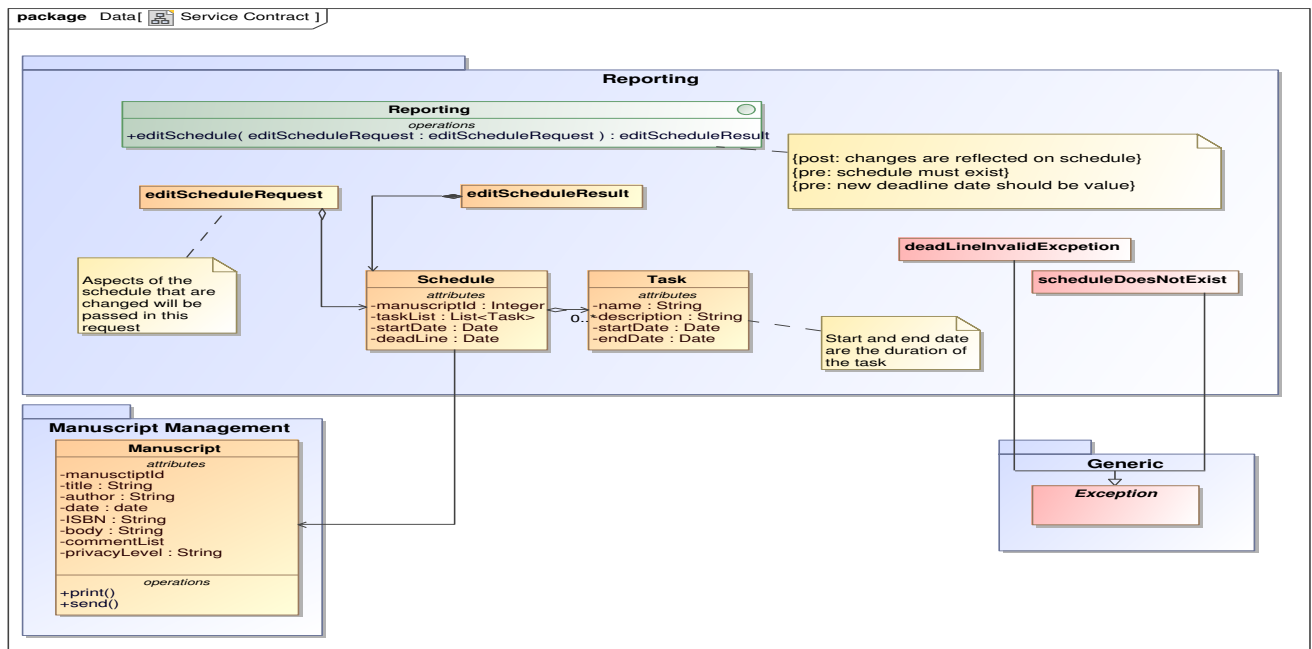


Figure 21: Service contract for editing a work schedule

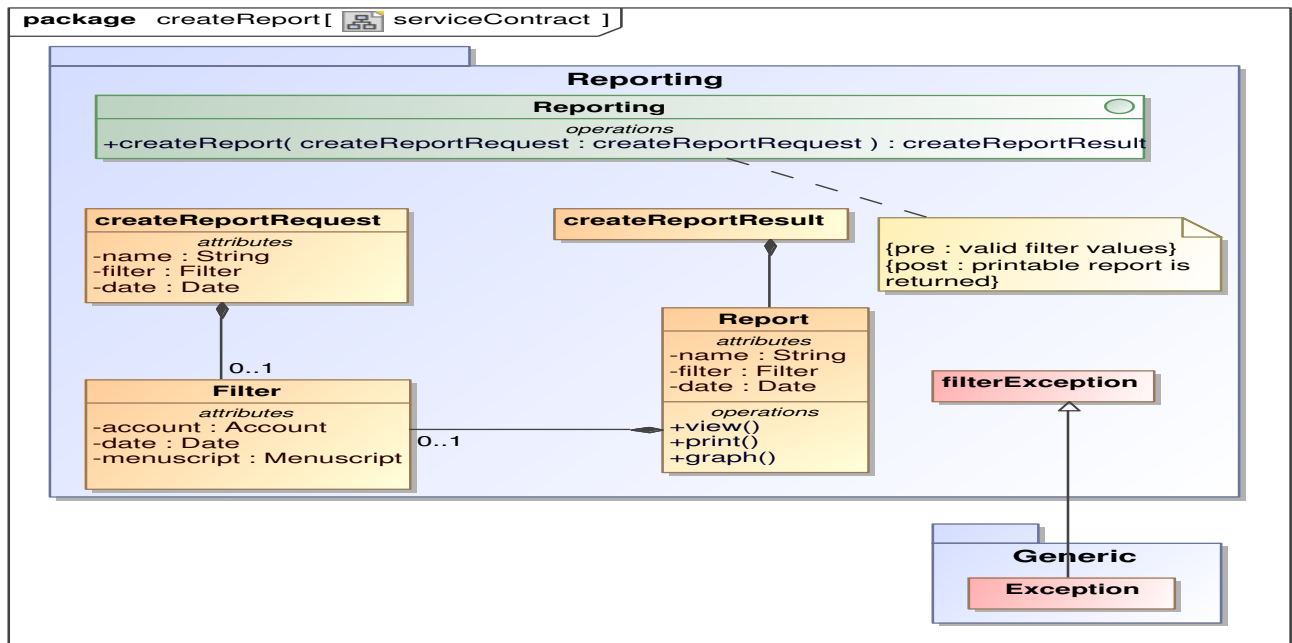


Figure 22: Service contract for creating a report

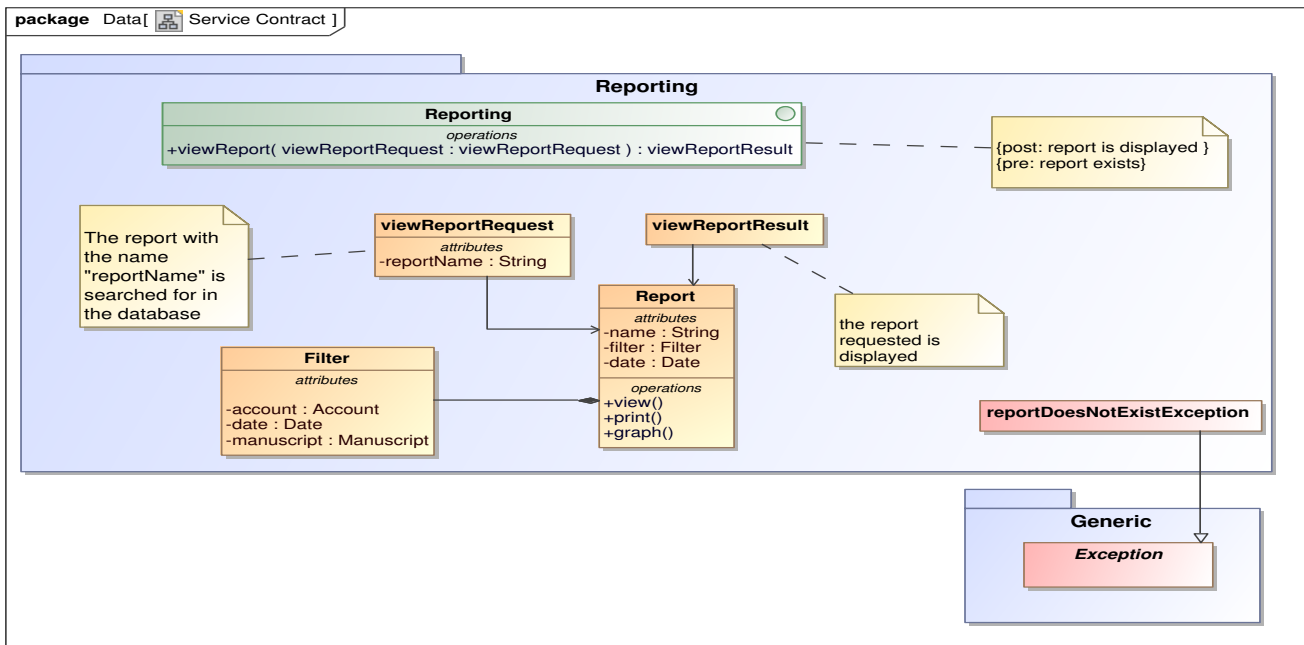


Figure 23: Service contract for viewing a report

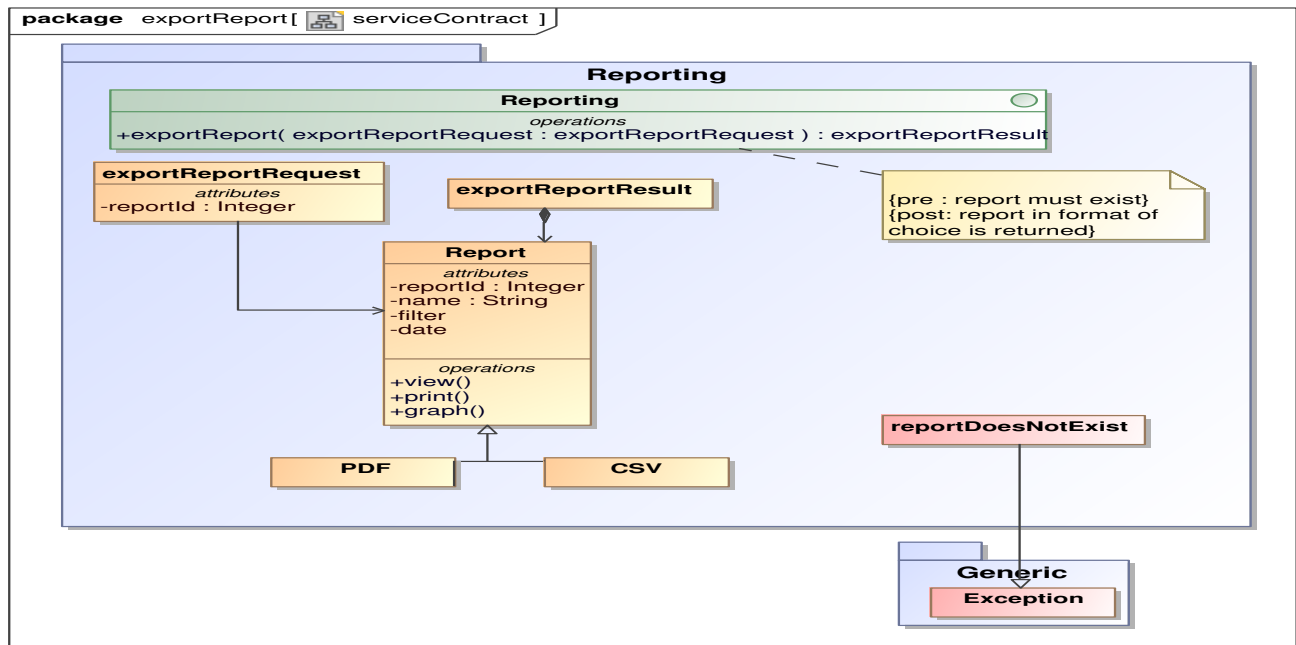


Figure 24: Service contract for exporting a report

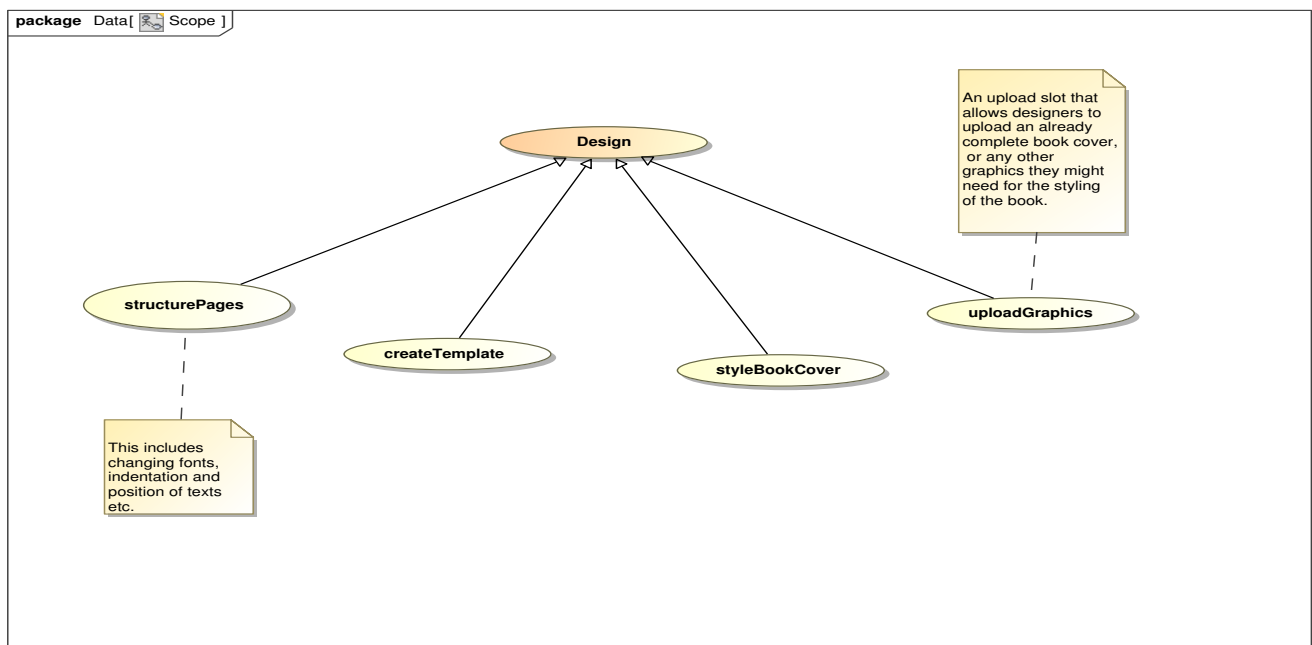


Figure 25: Scope of Design module

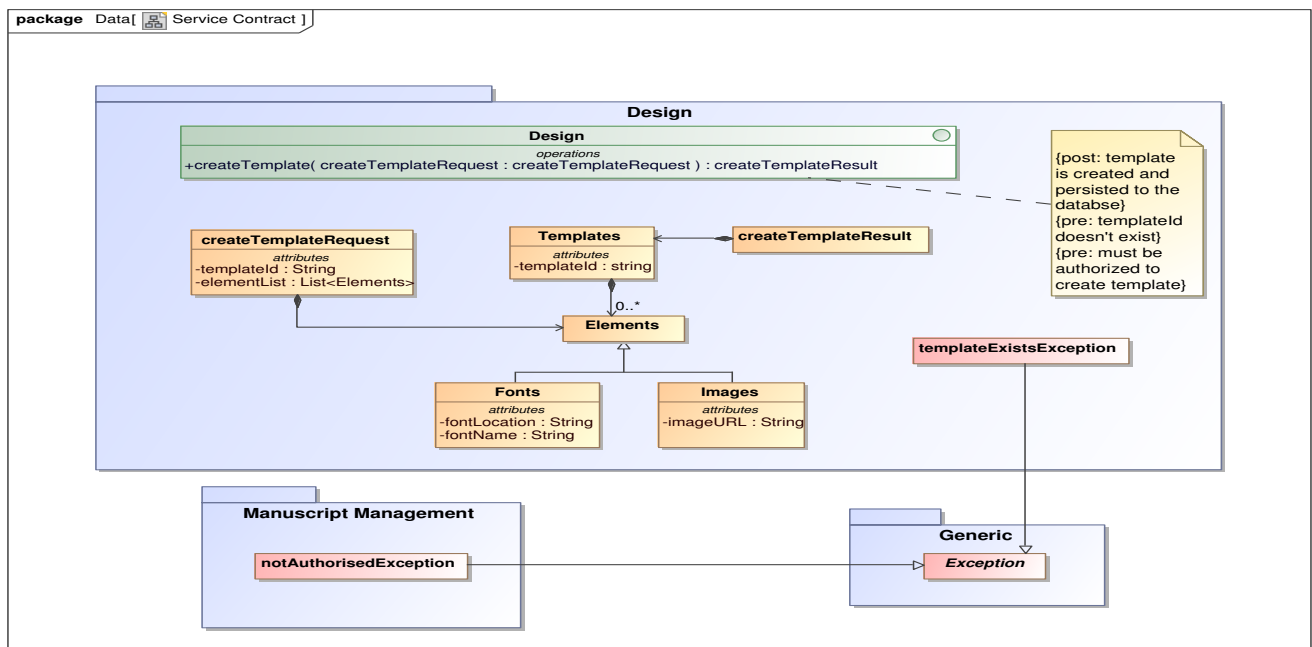


Figure 26: Service contract for structuring a manuscript

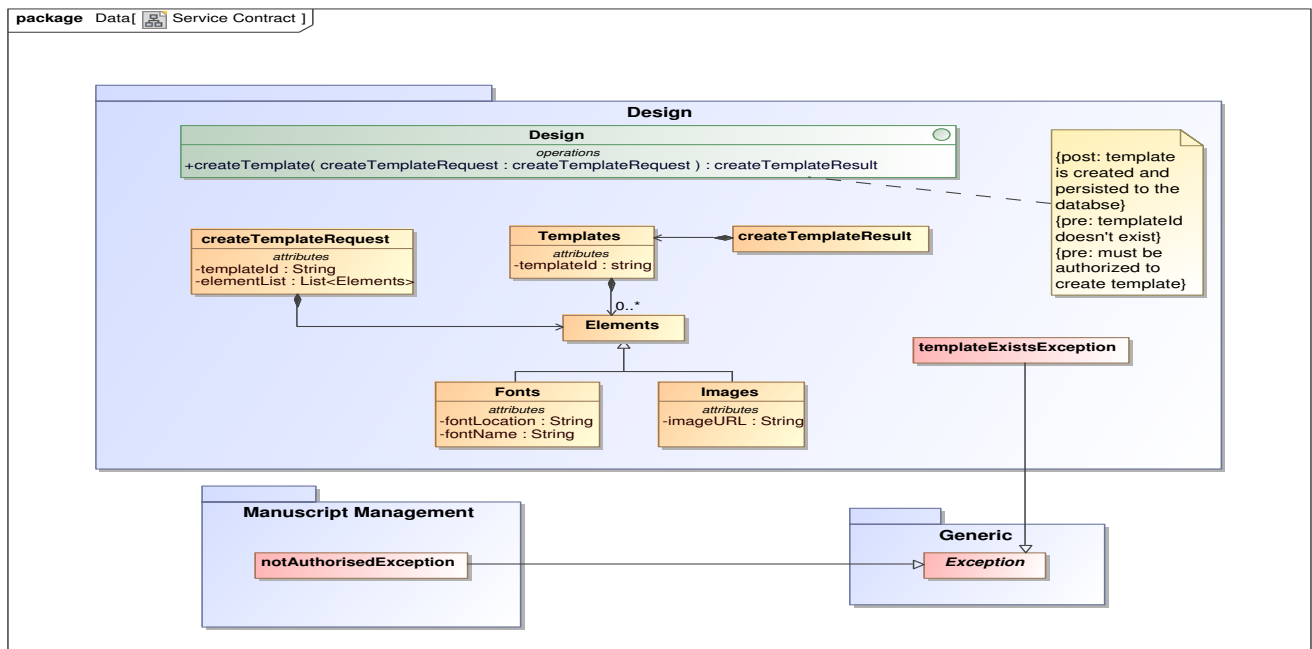


Figure 27: Service contract for creating a template design

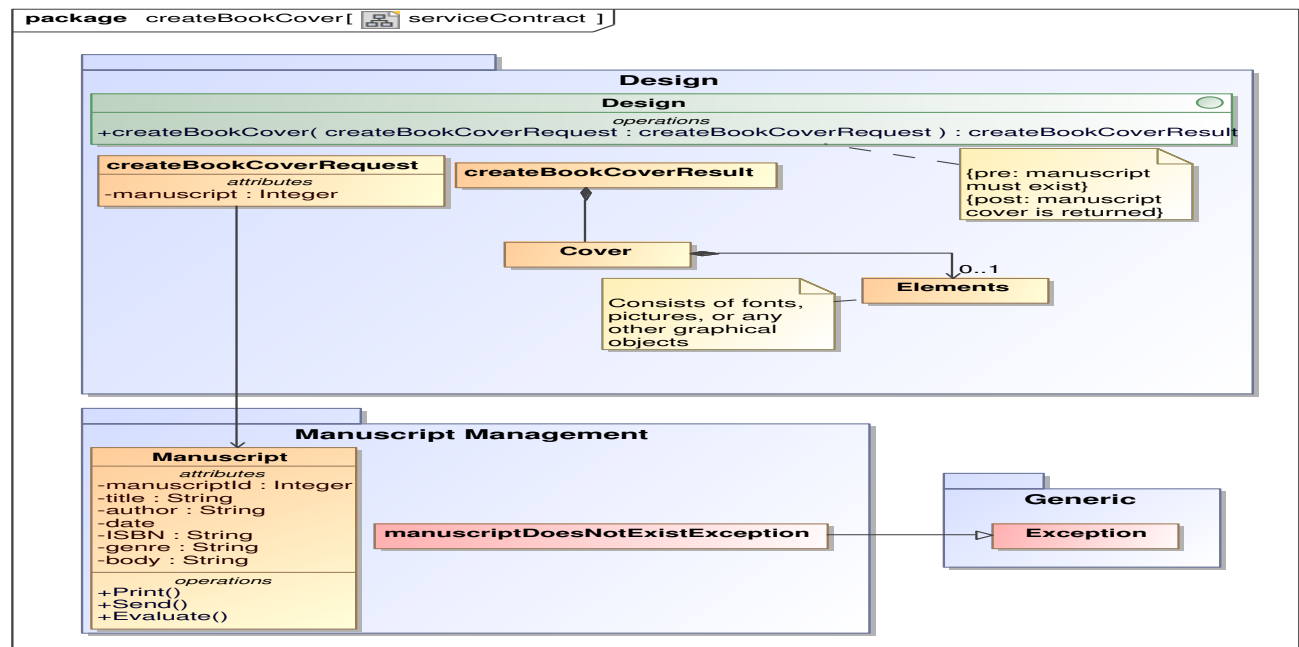


Figure 28: Service contract for creating a book cover

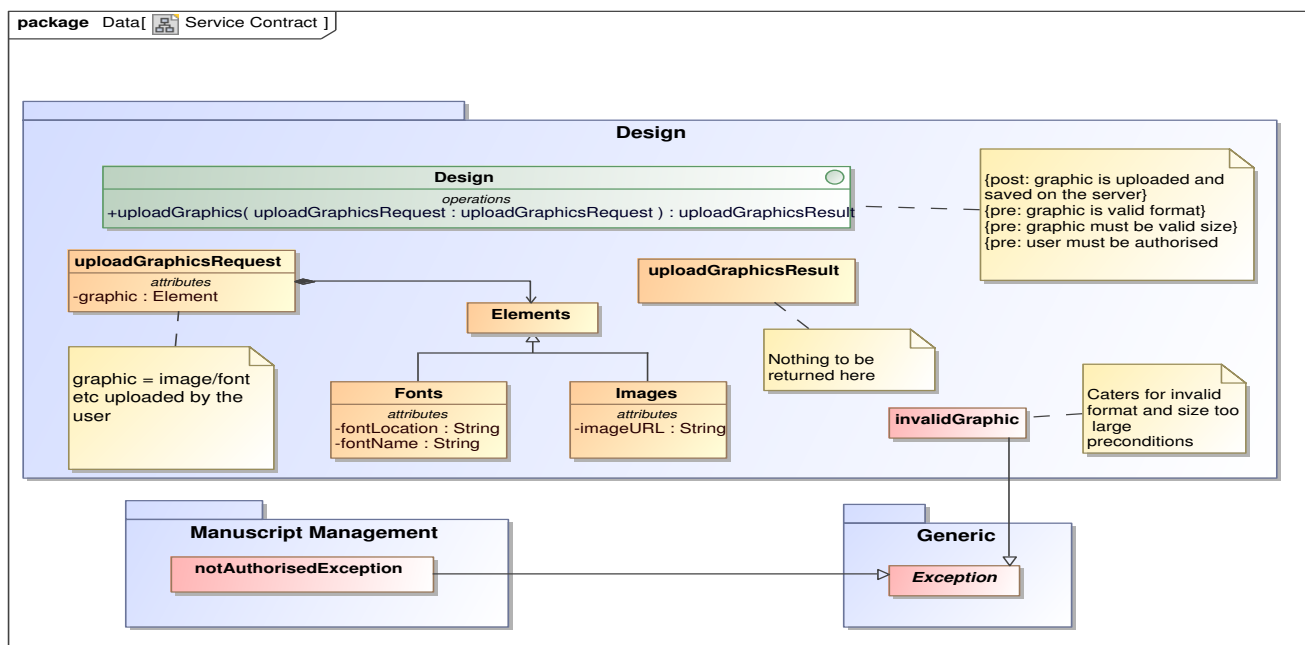


Figure 29: Service contract for uploading a graphic