

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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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.

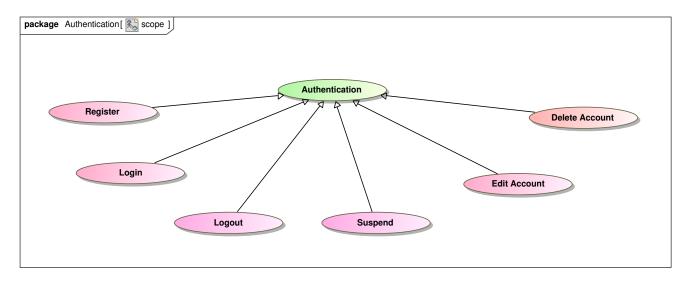


Figure 1: Scope for authentication module

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.

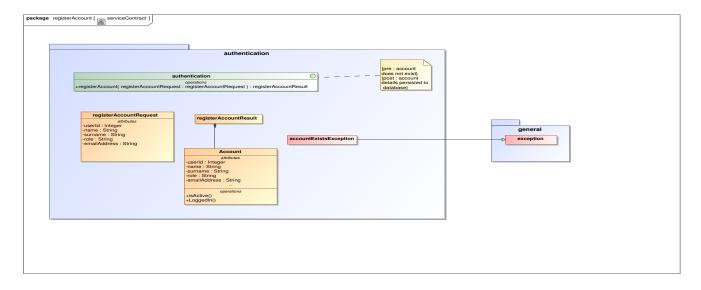


Figure 2: Service contract for logging into a user account

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.

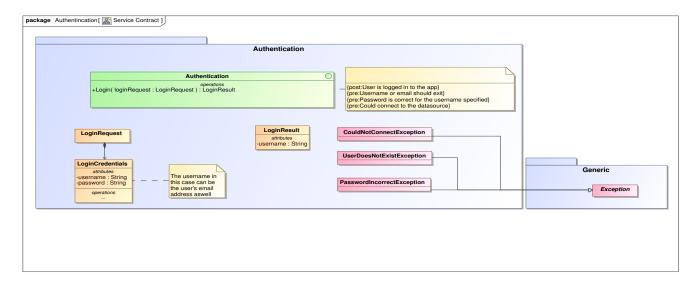


Figure 3: Service contract for logging into a user account

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.

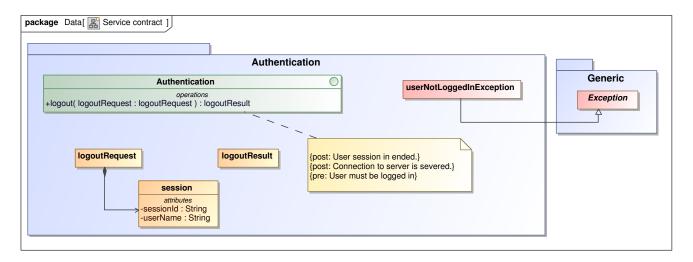


Figure 4: Service contract for logging a user out of the system

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.

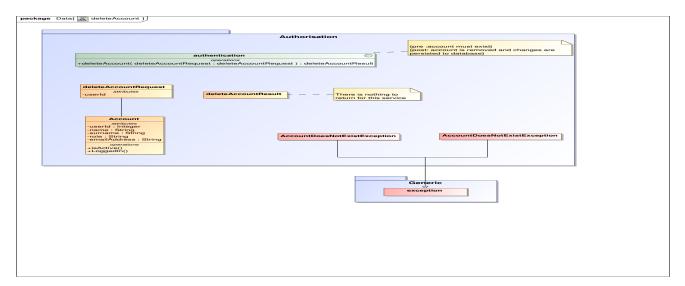


Figure 5: Service contract for deleting a users account

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.

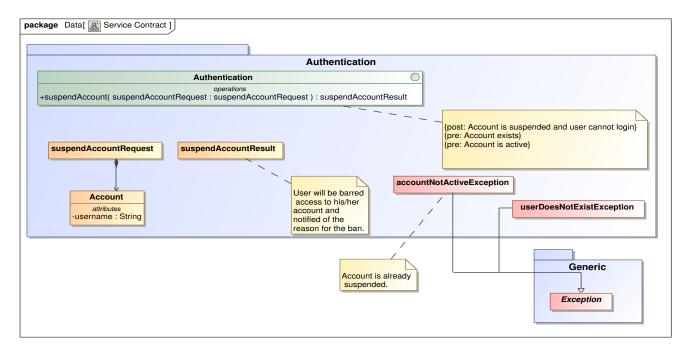


Figure 6: Service contract for suspending a users account

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.

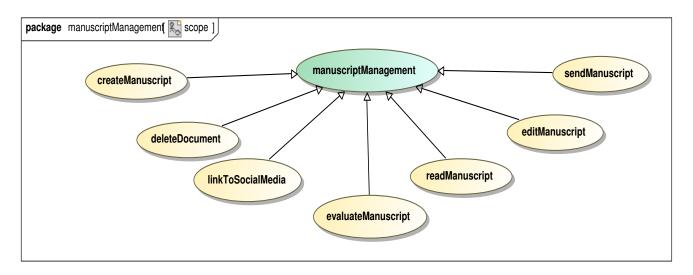


Figure 7: Scope for manuscript management module

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.

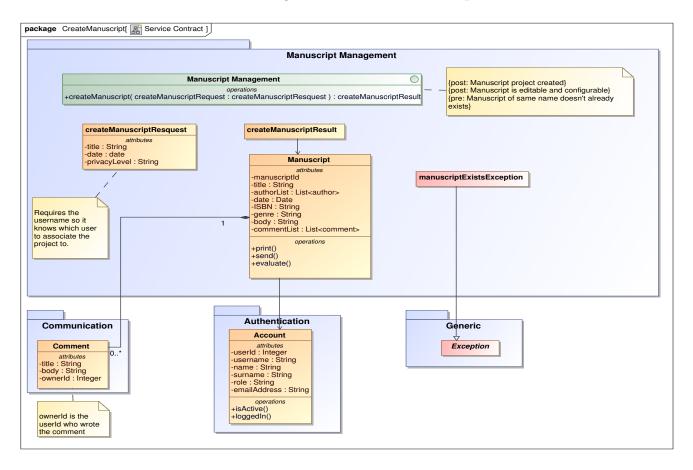


Figure 8: Service contract for creating a new project (manuscript)

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.

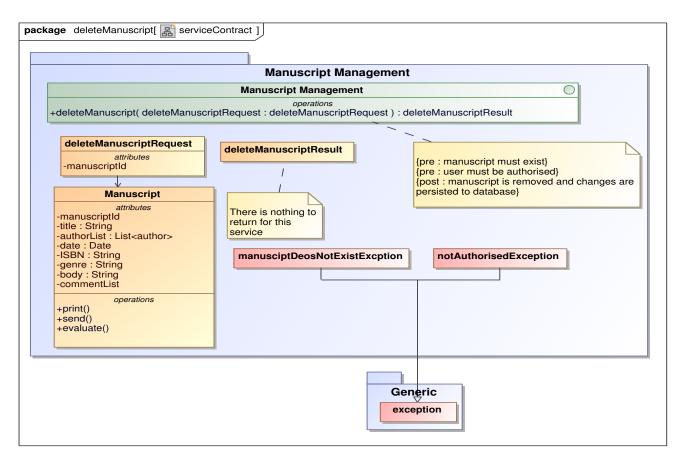


Figure 9: Service contract for deleting a project (manuscript)

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.

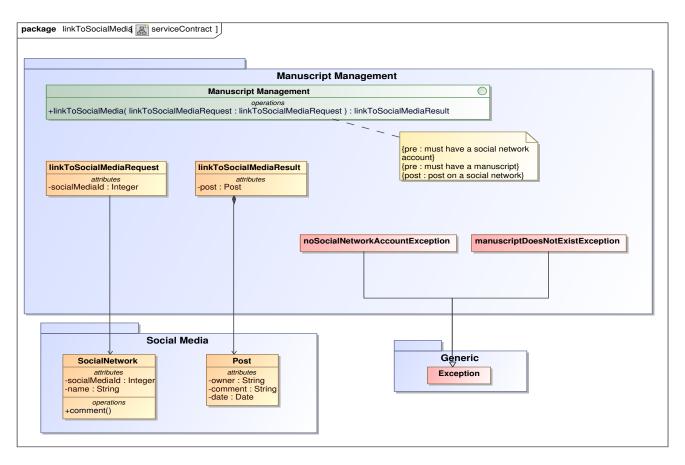


Figure 10: Service contract for linking a project (manuscript) to a social network

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.

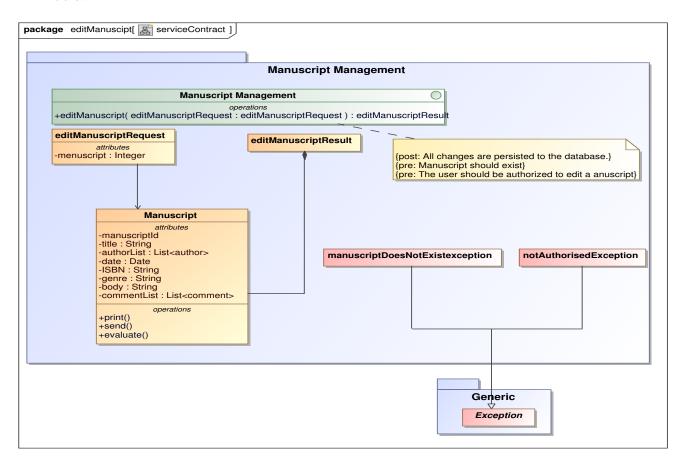


Figure 11: Service contract for editing a project (manuscript)

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.

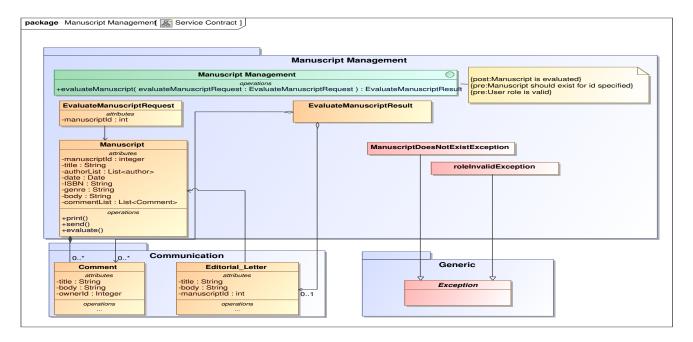


Figure 12: Service contract for evaluating a manuscript

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

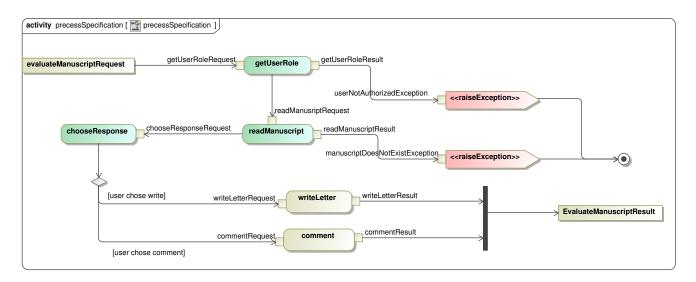


Figure 13: Process Specification for evaluating a manuscript

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.

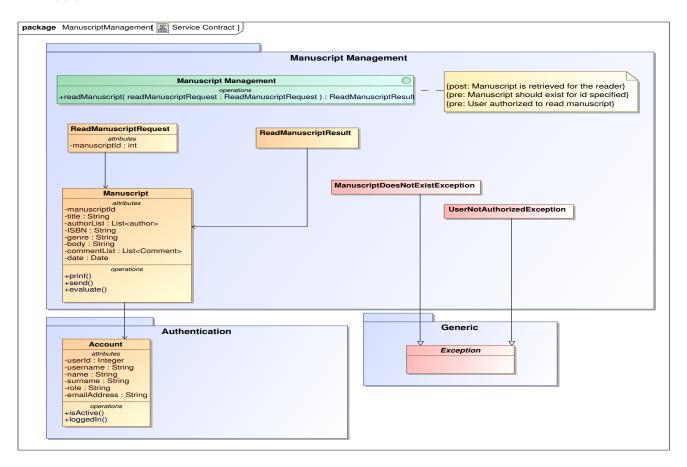


Figure 14: Service contract for reading a manuscript

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.

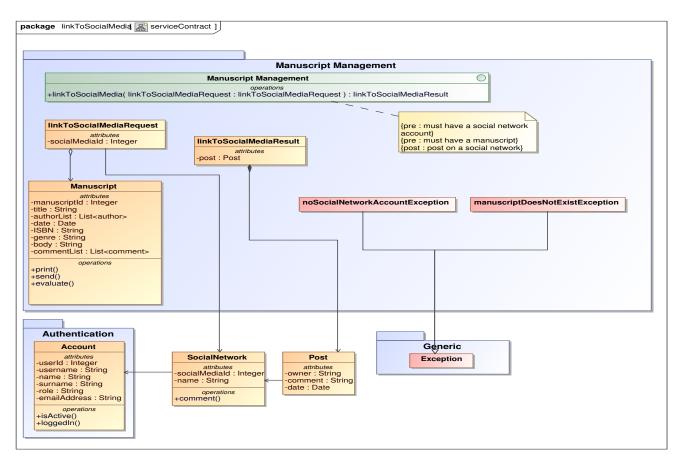


Figure 15: Service contract for sending a manuscript

2.3 Communication

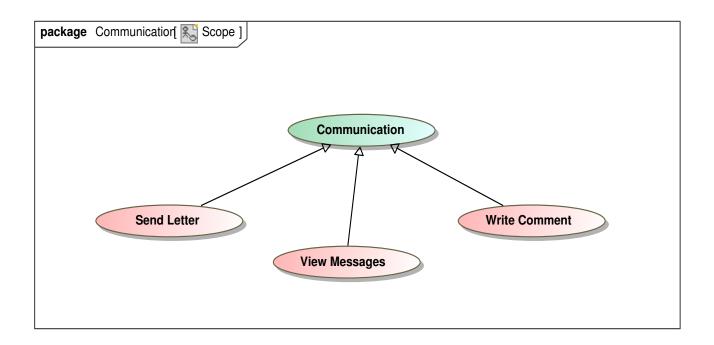


Figure 16: Scope of Communication module

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.

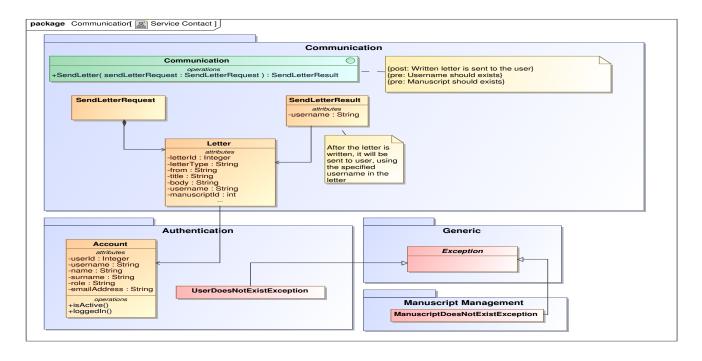


Figure 17: Service contract for sending a letter

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.

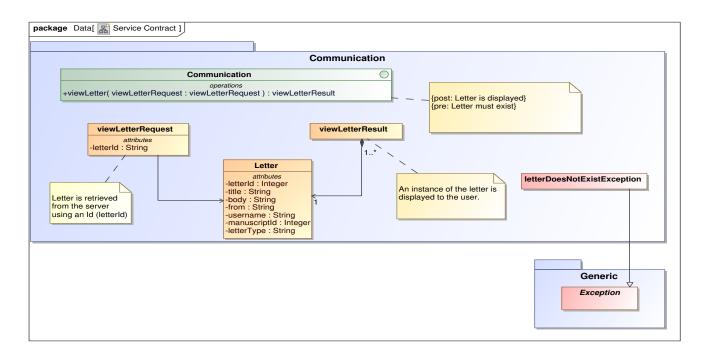


Figure 18: Service contract for viewing a letter

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

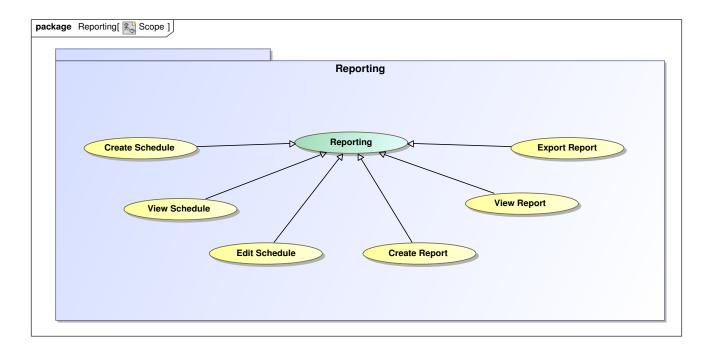


Figure 19: Scope of Reporting module

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.

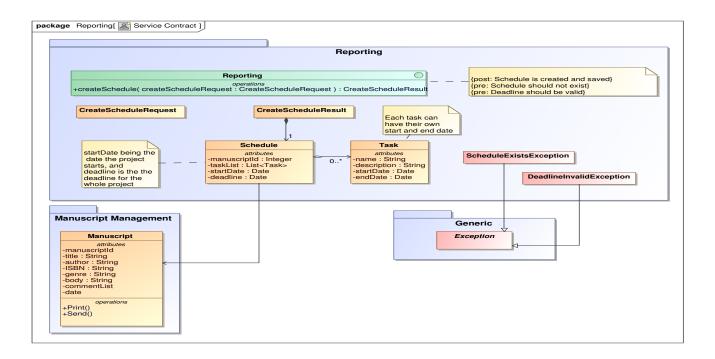


Figure 20: Service contract for creating a work schedule

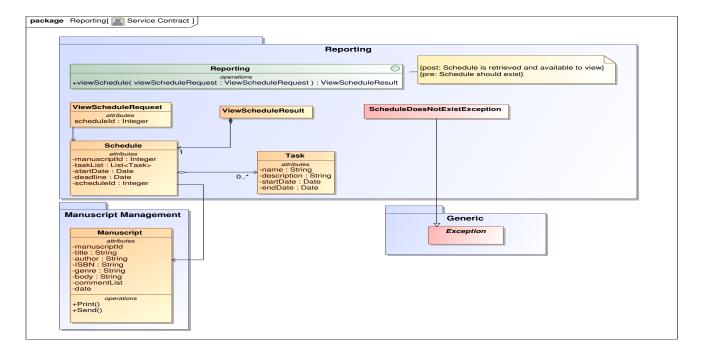


Figure 21: Service contract for viewing a work schedule

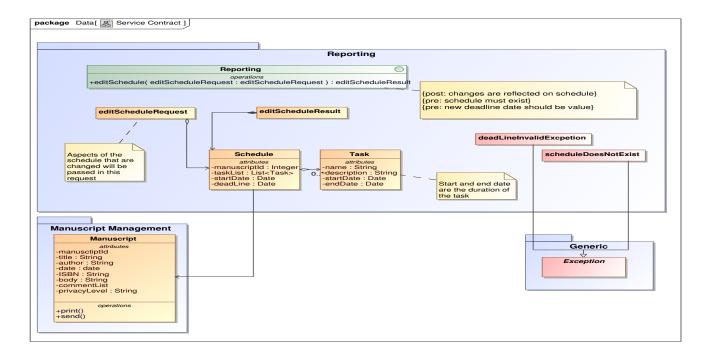


Figure 22: Service contract for editing a work schedule

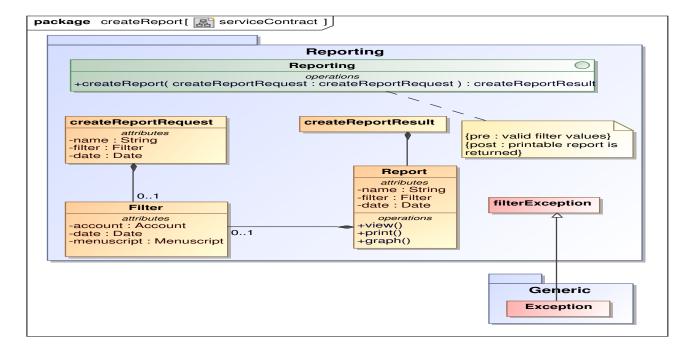


Figure 23: Service contract for creating a report

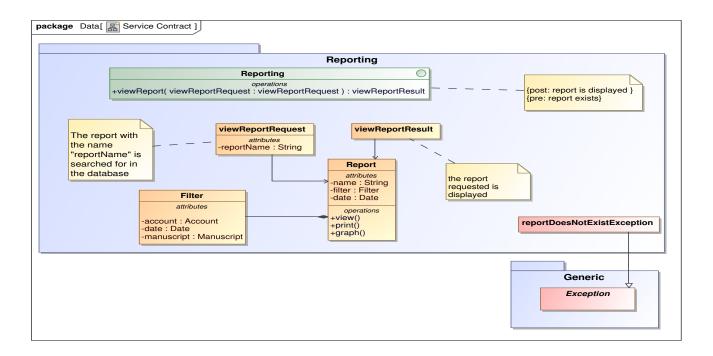


Figure 24: Service contract for viewing a report

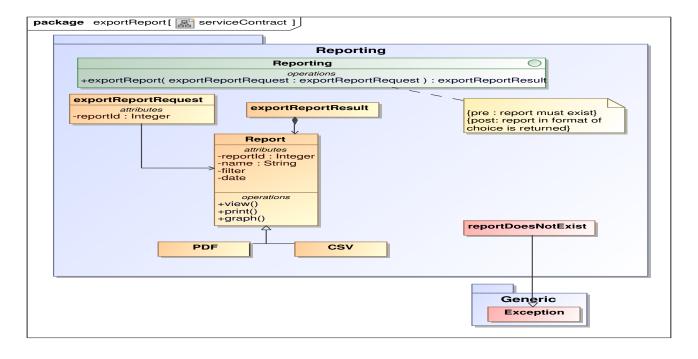


Figure 25: Service contract for exporting a report

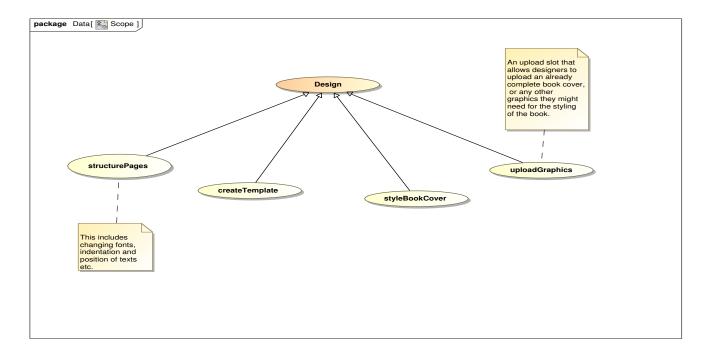


Figure 26: Scope of Design module

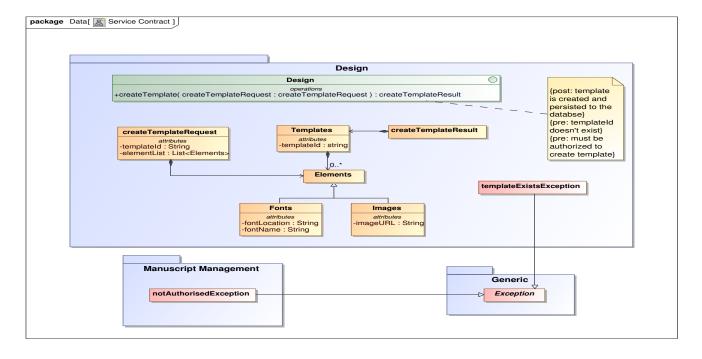


Figure 27: Service contract for structuring a menuscript

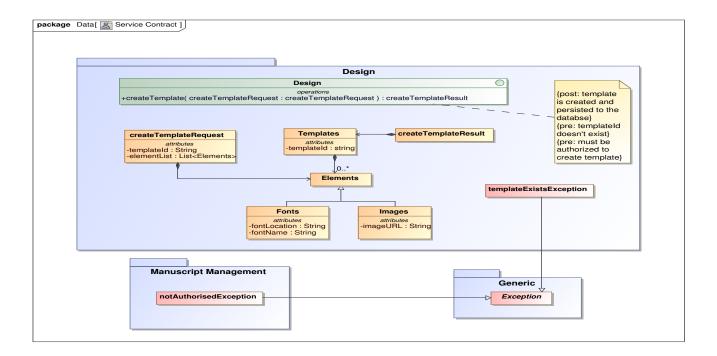


Figure 28: Service contract for creating a template design

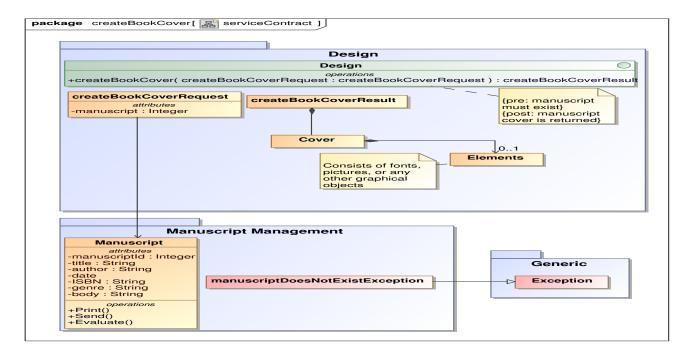


Figure 29: Service contract for creating a book cover

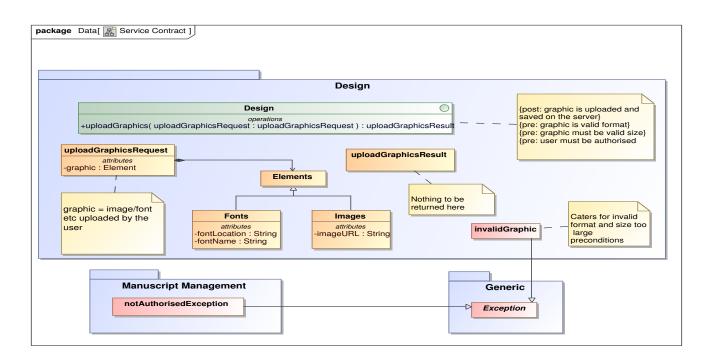


Figure 30: Service contract for uploading a graphic