

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 module takes care of everything involving the users account. This includes functionality like logging in and out of the system, editing of user accounts etc. Further description is provided in the use cases below

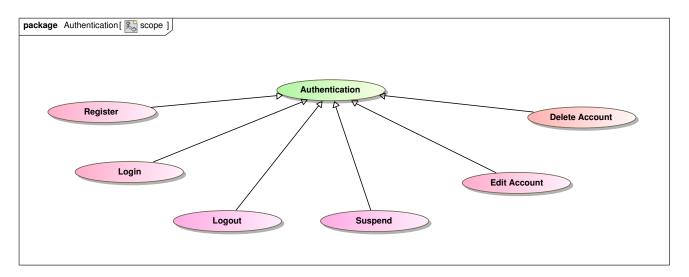


Figure 1: Scope for authentication module

#### 2.1.2 Use Cases

1. registerAccount priority: critical This use case creates a user account that gets persisted to database.

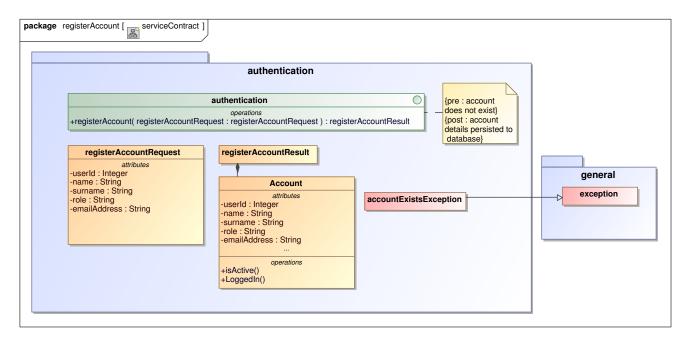


Figure 2: Service contract for registering new user account

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.

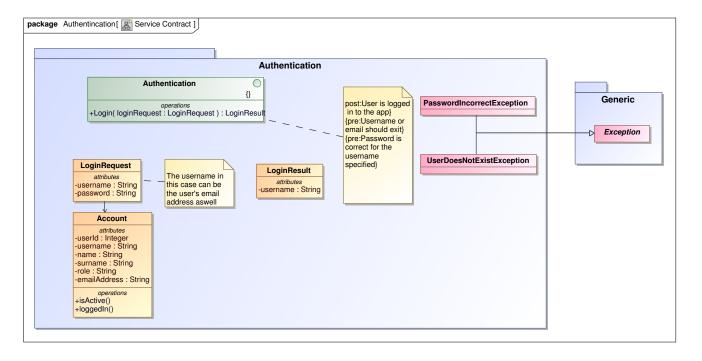


Figure 3: Service contract for logging into a user account

# 3. Logout - priority: important

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

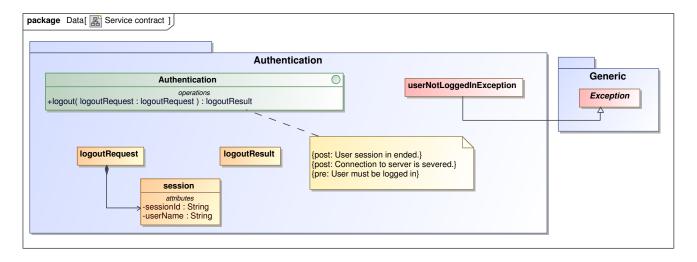


Figure 4: Service contract for logging a user out of the system

# 4. editAccount - priority: important

This allows a user to make changes to their profile details. They will be allowed to edit the details they added when creating the account.

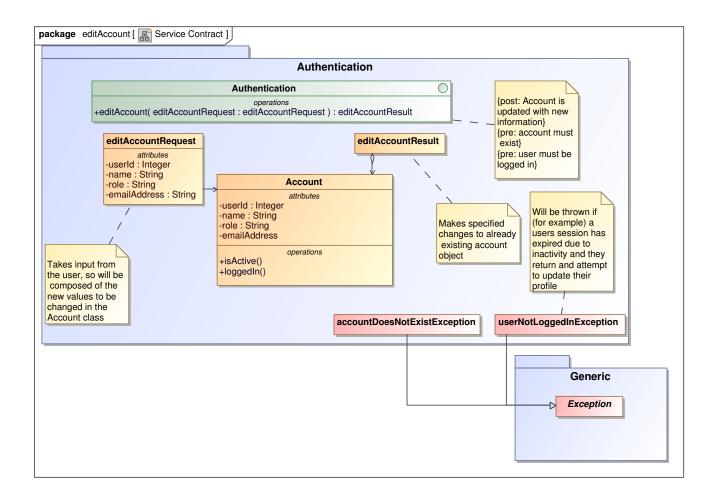


Figure 5: Service contract for editing a users account

5. **deleteAccount priority: important** This use case creates a user account that gets persisted to database.

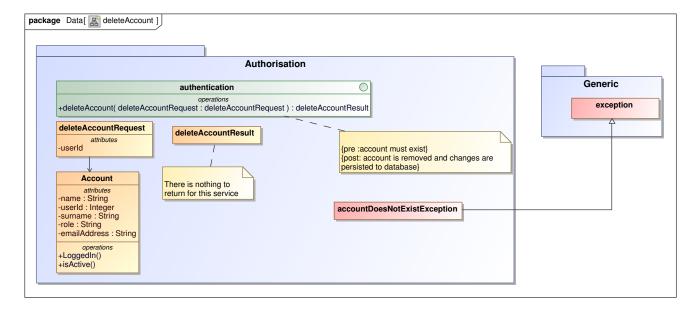


Figure 6: Service contract for deleting a users account

# 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.

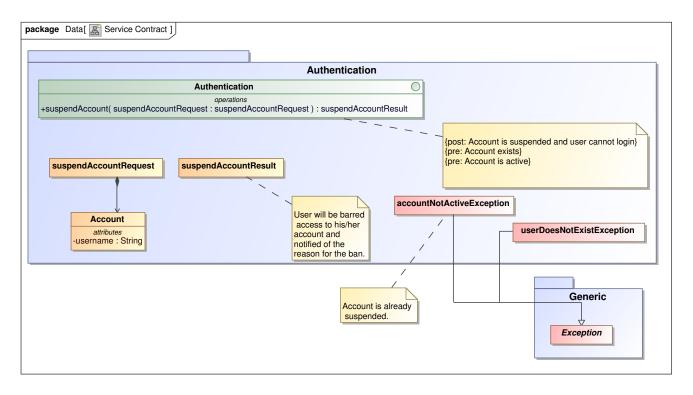


Figure 7: Service contract for suspending a users account

**Domain Model:** The Authentication module will keep Account objects in the database. Any part of the system that checks for user authorisation will check against the account table to see if that particular user has authorisation to do whatever it is they are attempting to do.

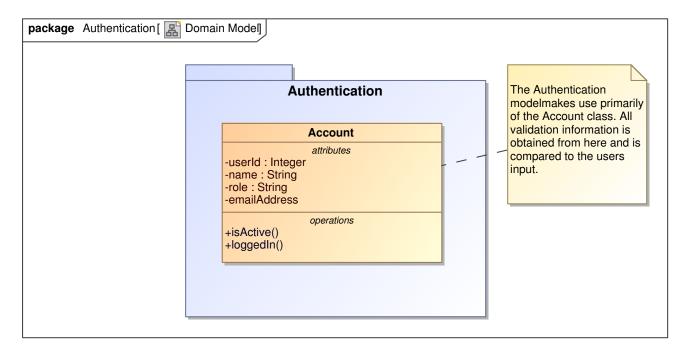


Figure 8: Domain model of Authentication module

# 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.

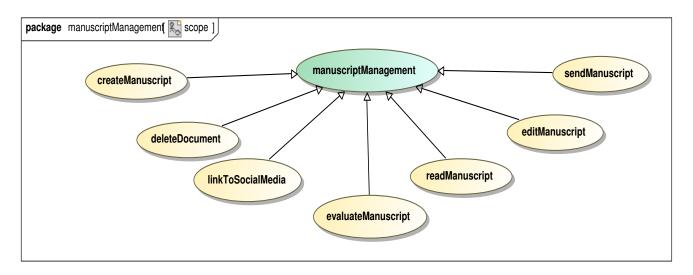


Figure 9: Scope for manuscript management module

#### 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.

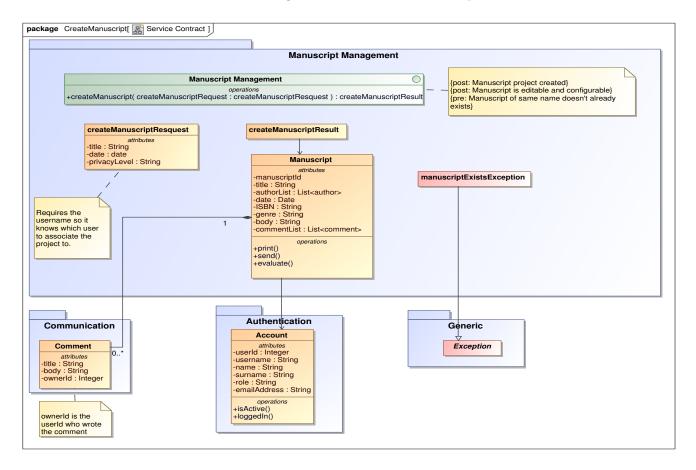


Figure 10: Service contract for creating a new project (manuscript)

# 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.

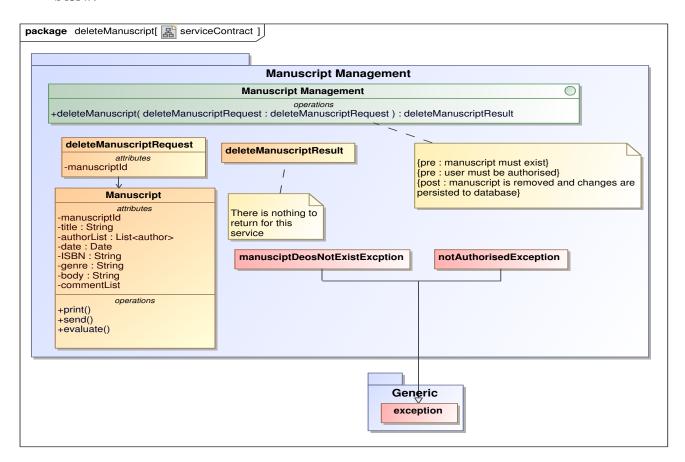


Figure 11: Service contract for deleting a project (manuscript)

# 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.

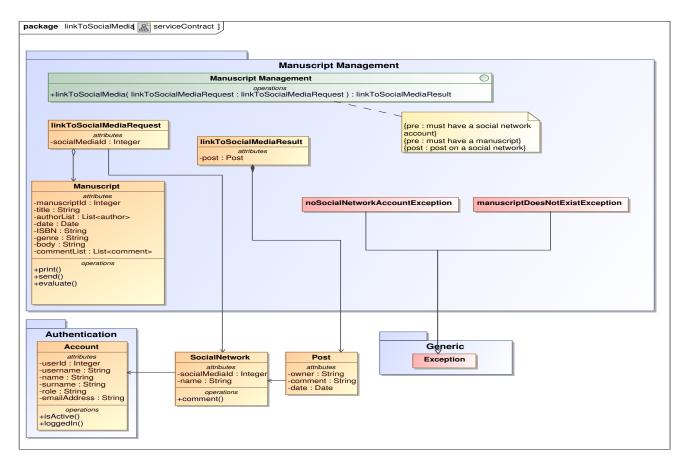


Figure 12: Service contract for linking a project (manuscript) to a social network

# 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.

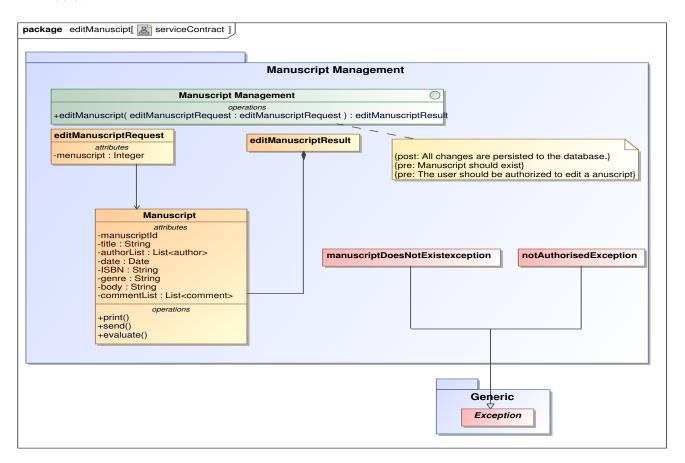


Figure 13: Service contract for editing a project (manuscript)

# 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.

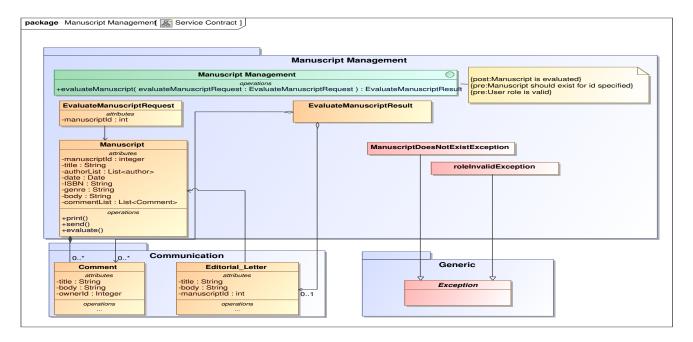


Figure 14: Service contract for evaluating a manuscript

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

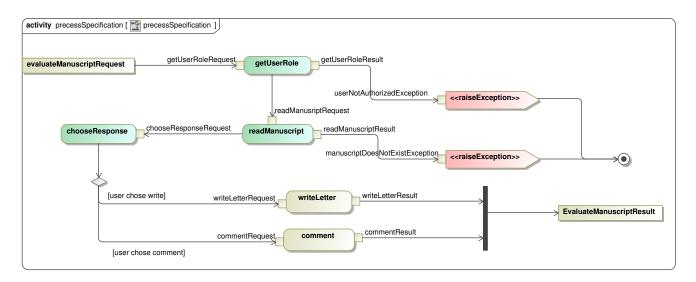


Figure 15: Process Specification for evaluating a manuscript

# 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.

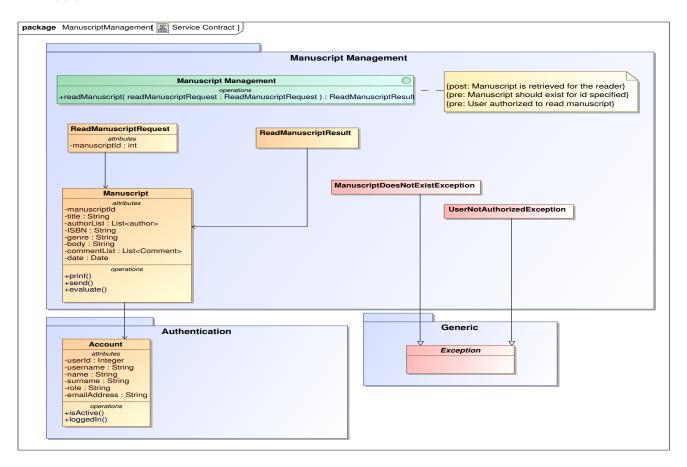


Figure 16: Service contract for reading a manuscript

# 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.

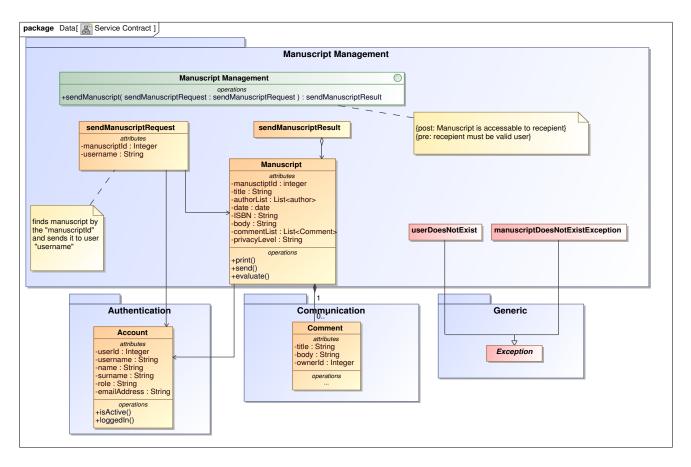


Figure 17: Service contract for sending a manuscript

Domain Model: Below is a figure for the domain model of manuscript management.

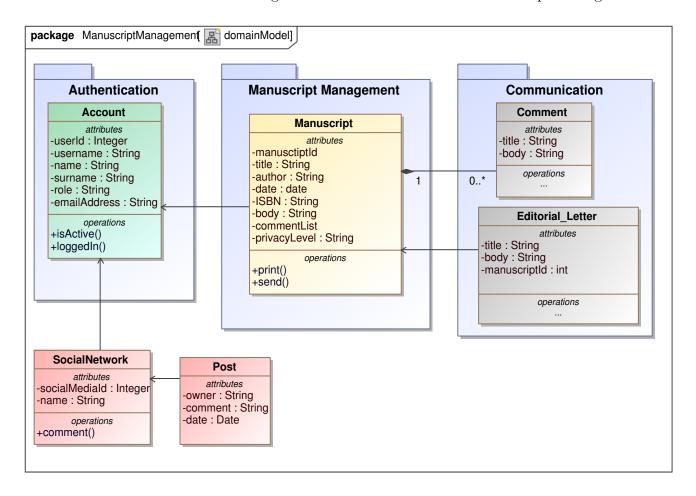


Figure 18: Domain model for managing a manuscript

# 2.3 Reporting

#### 2.3.1 scope

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

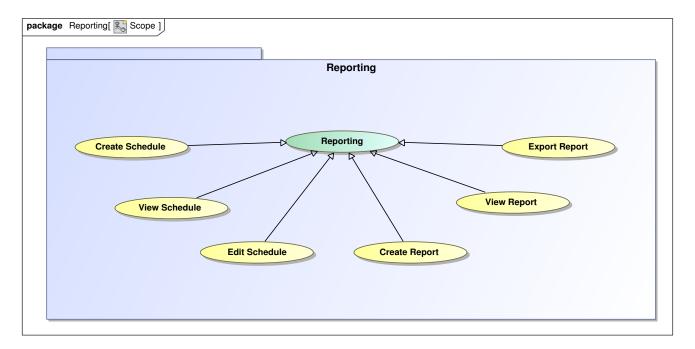


Figure 19: Scope of Reporting module

#### 2.3.2 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.

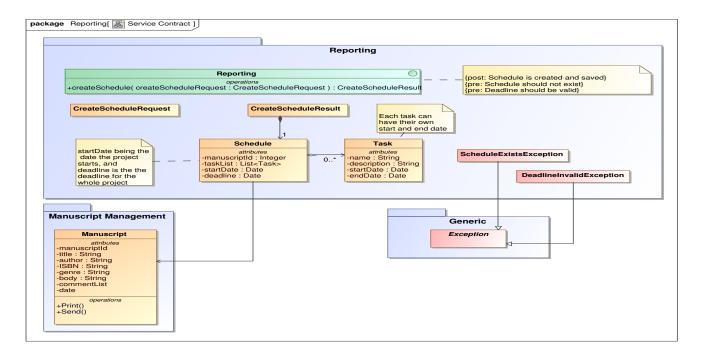


Figure 20: Service contract for creating a work schedule

**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

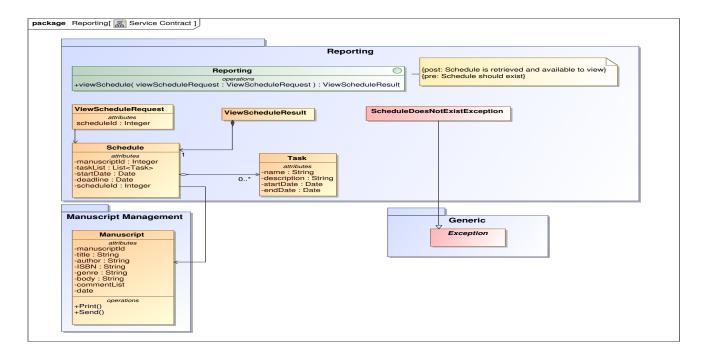


Figure 21: Service contract for viewing a work schedule

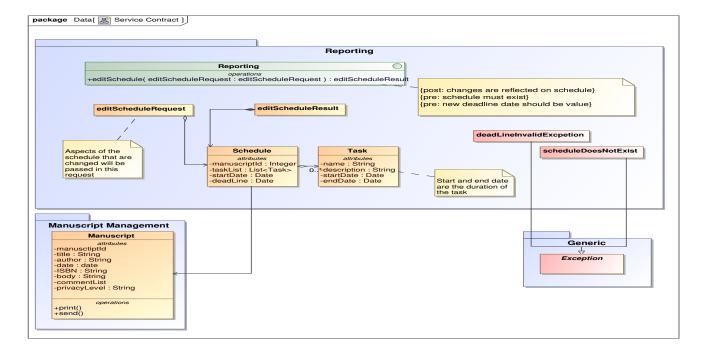


Figure 22: Service contract for editing a work schedule

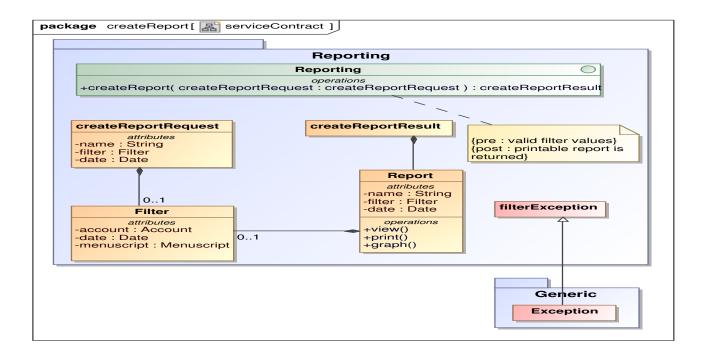


Figure 23: Service contract for creating a report

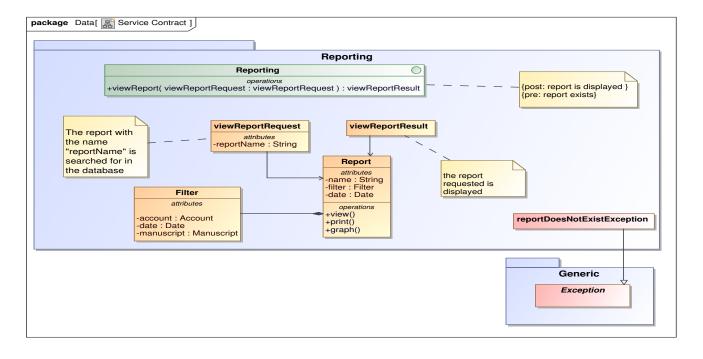


Figure 24: Service contract for viewing a report

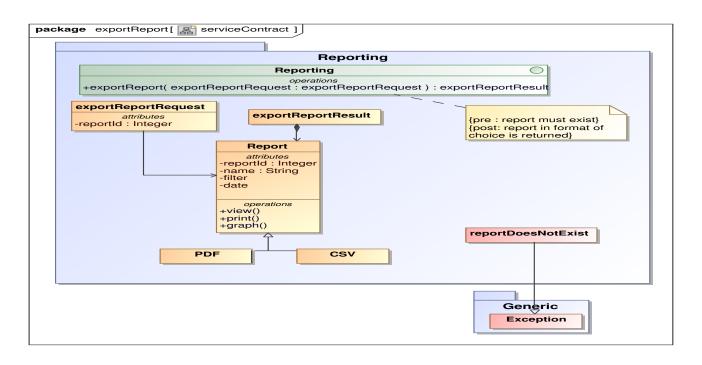


Figure 25: Service contract for exporting a report

# 2.4 Communication

# 2.4.1 scope

In the life cycle of the book, there is plenty communication that occurs. This module takes care of all communication that may occur between different parties (author to editor, editor to agent agent to author etc)

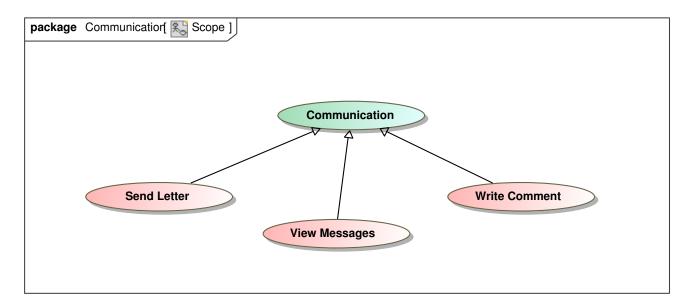


Figure 26: Scope of Communication module

#### 2.4.2 Use Cases

# 1. Send Letter - priority: critical

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

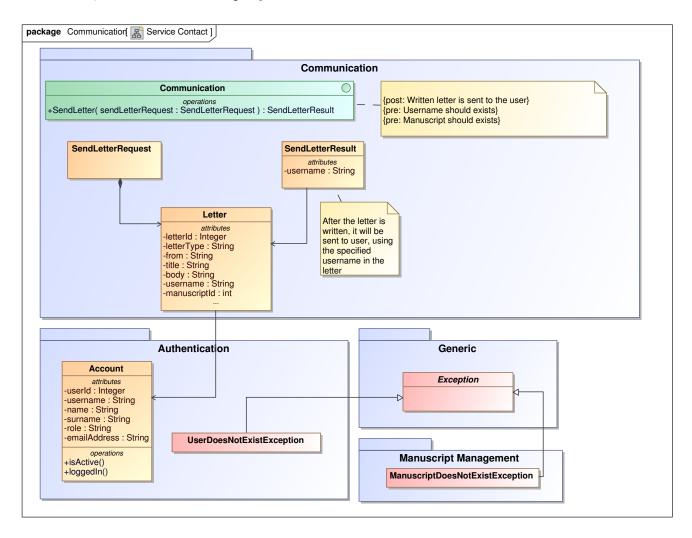


Figure 27: Service contract for sending a letter

# 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.

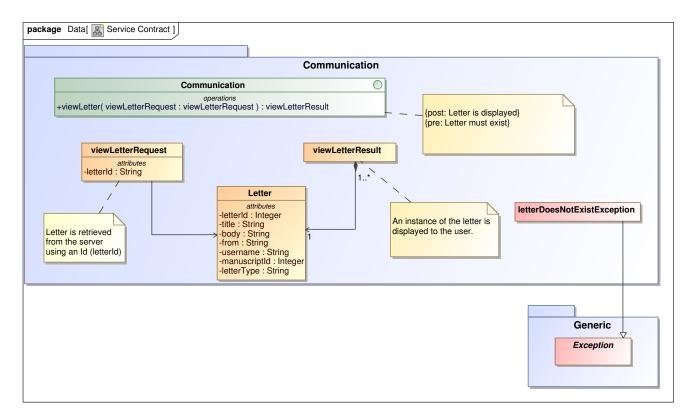


Figure 28: Service contract for viewing a letter

# 3. Write Comment priority: nice to have

This allows a user (with the editor role) to add comments on the manuscript. Comments can be little notes to the author to indicate what the editor was thinking about that portion of the manuscript.

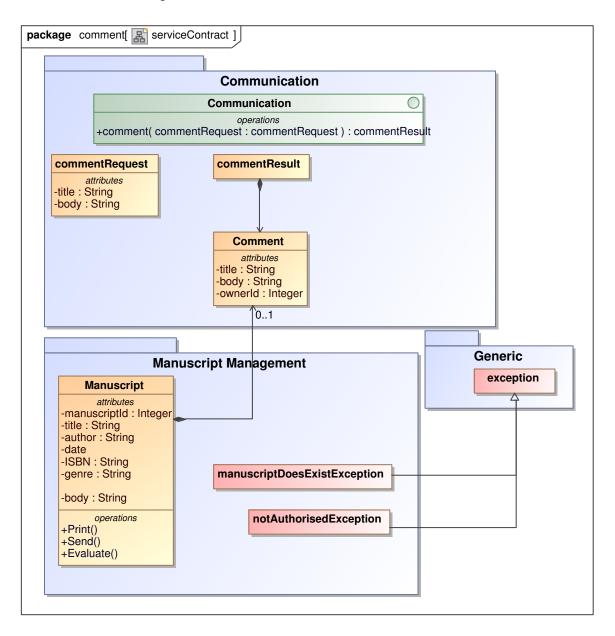


Figure 29: Service contract for writing a comment a manuscript

# 2.5 Design

#### 2.5.1 scope

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

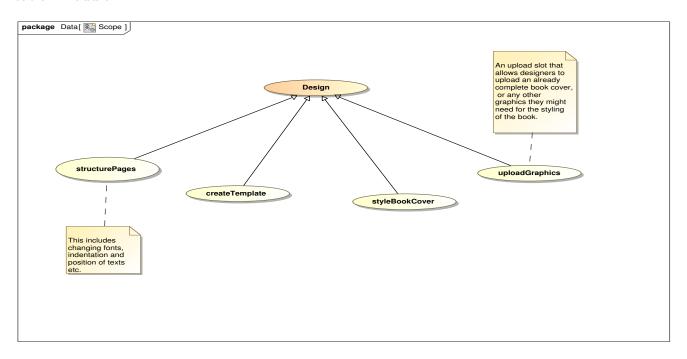


Figure 30: Scope of Design module

#### 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

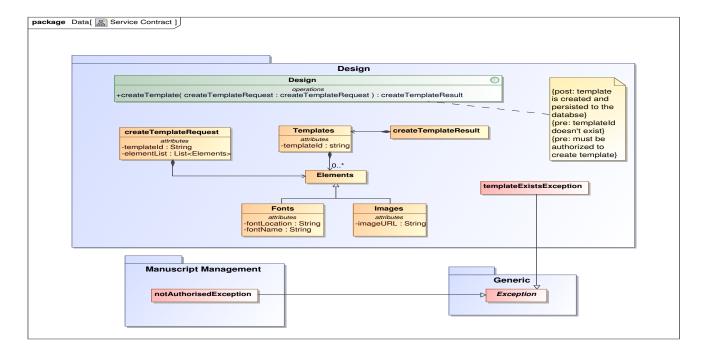


Figure 31: Service contract for structuring a menuscript

restricted however.

service contract:Below is the service contract for uploading a graphic.

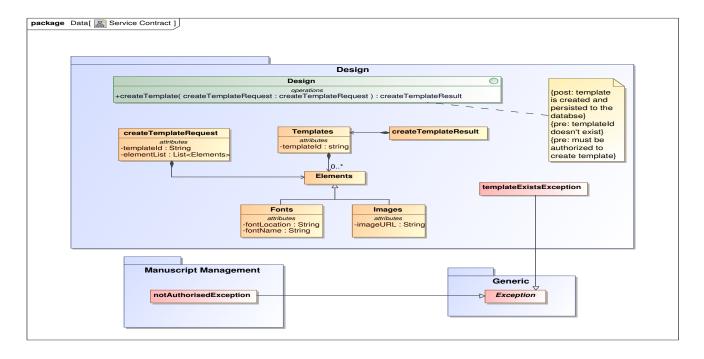


Figure 32: Service contract for creating a template design

# 2.6 Production

# 2.6.1 scope

This section provides the detailed use case requirements for the use cases offered by the Production module.

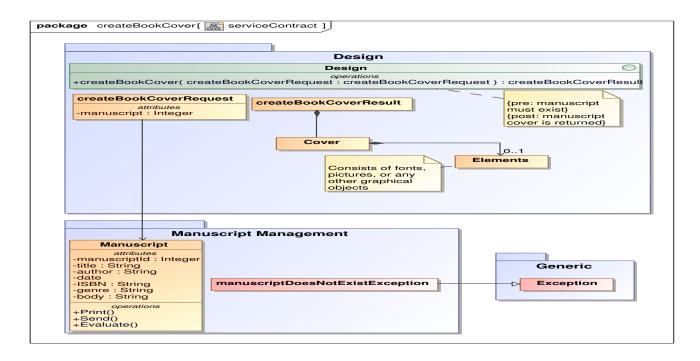


Figure 33: Service contract for creating a book cover

#### 2.6.2 Use Cases

# 1. Register ISBN Number - priority: important

This use case will allow the user to fill in an application form to register the ISBN number of the manuscript. Most of the inputs on this application form will be auto-completed and an email requesting the ISBN Number will be sent.

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

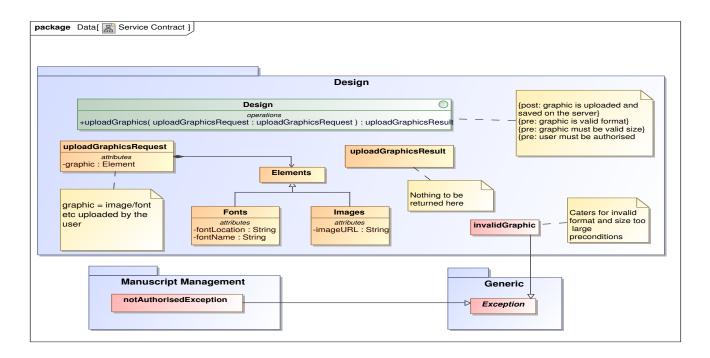


Figure 34: Service contract for uploading a graphic

# 2. Select Copy Editor - priority: critical

This use case allows a user to select a copy-editor from the available copy copy-editors registered in the system.

**Service Contract:** The service contract for selecting a copy editor service is shown in the figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the required copy editor is then notified of the user's request.

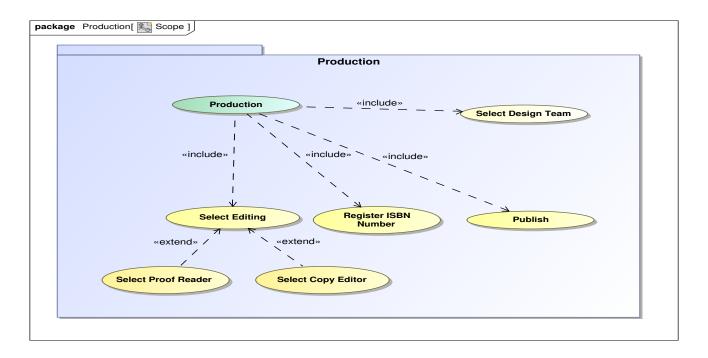


Figure 35: Scope for Production module

# 3. Select Proof Reader priority: important

This use case allows a user to select a proof reader from the available proof readers registered in the system.

**Service Contract:** The service contract for selecting a proof reader service is shown in the figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the required proof reader is then notified of the user's request.

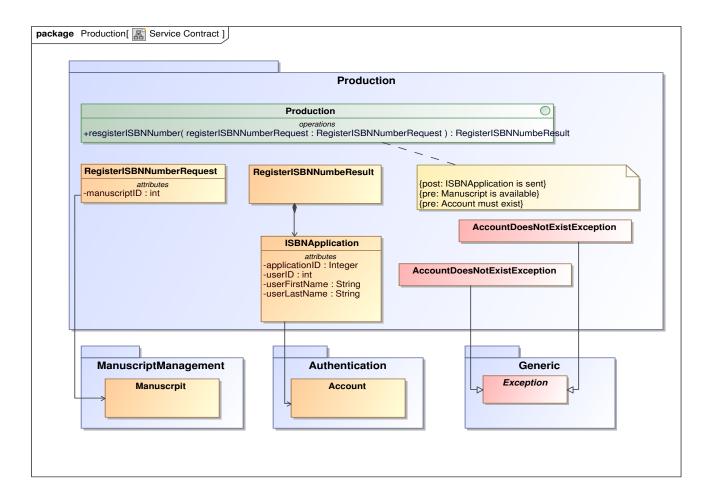


Figure 36: Service contract for registering a manuscript's ISBN number.

# 4. Select Design Team priority: important

This use case allows a user to select, from the registered designers, a design team that will be resposible for the book cover and styling.

**Service Contract:** The service contract for the selectDesignTeam service is shown in figure below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and the required design team is notified.

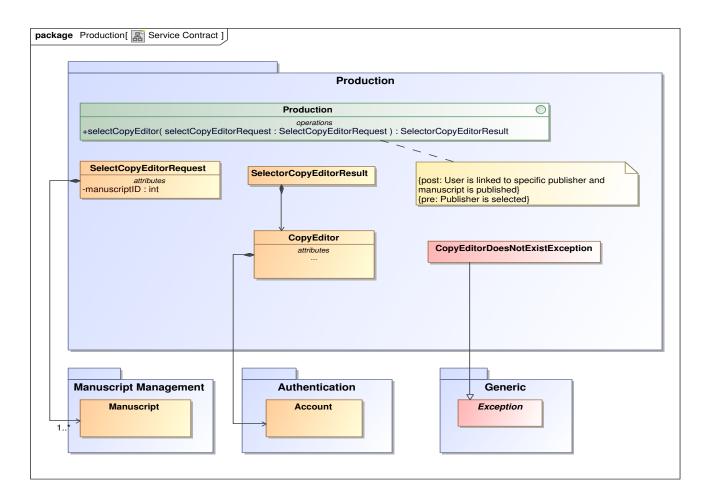


Figure 37: Service contract for selecting a copy editor

# 5. Publish - priority: critical

This use case allows an agent or an editorial to select a publisher and request that the final manuscript be published.

**Service Contract:** The service contract for publish is shown in the diagram below. The pre-conditions are enforced (raising the appropriate exception should they not be met) and a preferred publisher is notified of the publishing request.

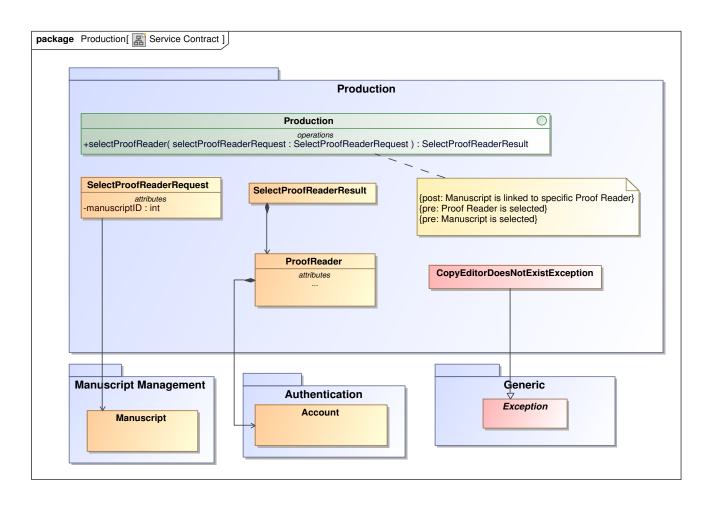


Figure 38: Service contract for selecting a proof reader

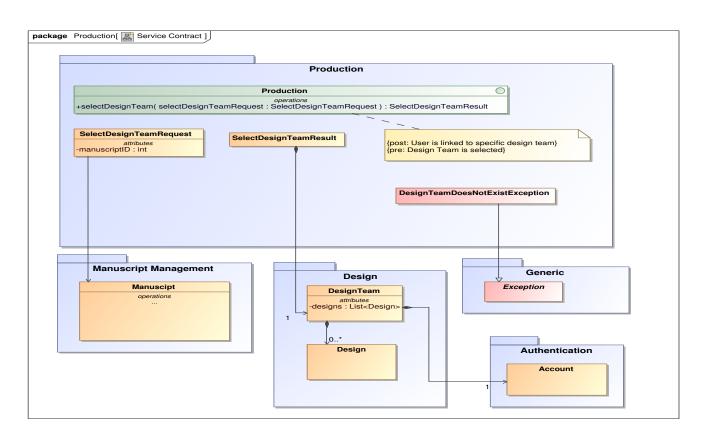


Figure 39: Service contract for selecting a design team  $\,$ 

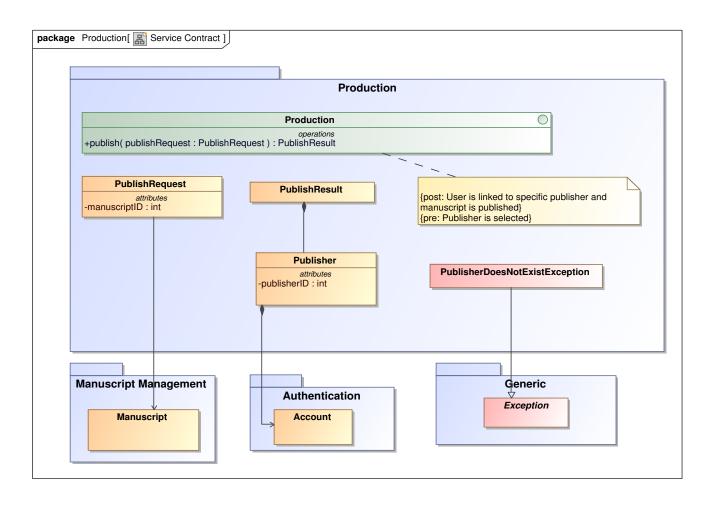


Figure 40: Service contract for evaluating a publish