FUNCTIONAL REQUIREMENTS SPECIFICATION

FOR

Buzz System

Mini Project Phase 1
GitHub

https://github.com/RenaldoV/COS301_Group5_a

Khathutshelo Matidza 11072157 Renaldo van Dyk 12204359
Andreas du Preez 12207871 Sean Hill 12221458
Kgomotso Sito 12243273 Hlavutelo Maluleke 12318109
Sboniso Masilela 10416260 Semaka Malapane 13081129

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1 Introduction

This document discusses the application functionality required by users (and other stakehodlers).

2 Use case prioritization

2.1 Critical

1.1 Delete
1.2 Read
1.3 Create
1.4 Update
1.5 Comment

2.2 Important

1.1.1 Archive post
2.1 Direct messages

2.3 Nice-To-Have

3.1 View visualized statistical information

3 Use case/Services contracts

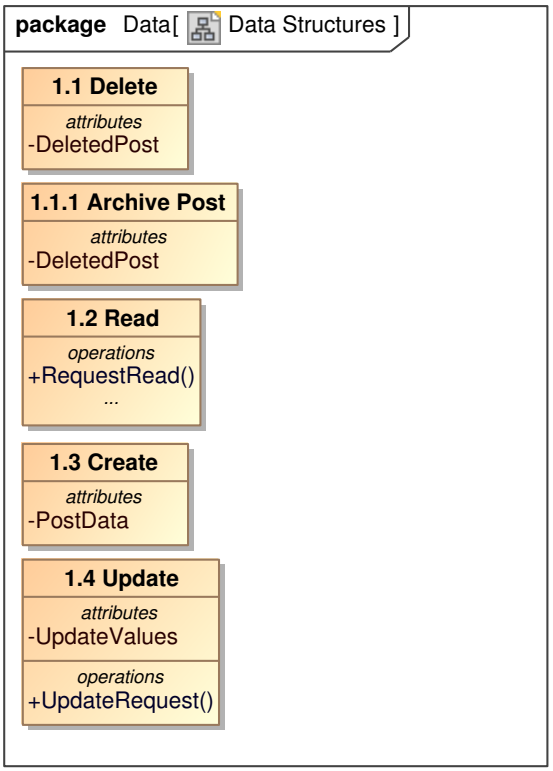
3.1 Pre-Conditions

1.1 a) Post must be in database
1.1 b) Post must be read from database before it can be deleted
1.1 c) User must be logged in to the system to delete a post
1.1.1a) Post must be deleted before it can be archived
1.2 a) Post must exist in database
1.2 b) User must be logged into the system to read values from database
1.3 a) User must be logged into the system to create posts to in database
1.4 a) User must be logged into the system to update the database
1.4 b) Before the database can be updated values must be changed
2.1 a User must have registered account
2.1 b User must have message
2.1 c Message must have (a) recipient(s)
3.1 a User must have registered account
3.1 b User must have been graded
4.1 a) Check user status level before posting
4.1 b Check word count of post before posting
5.1 a Check user status level before commenting
5.1 b Check word count of post before commenting

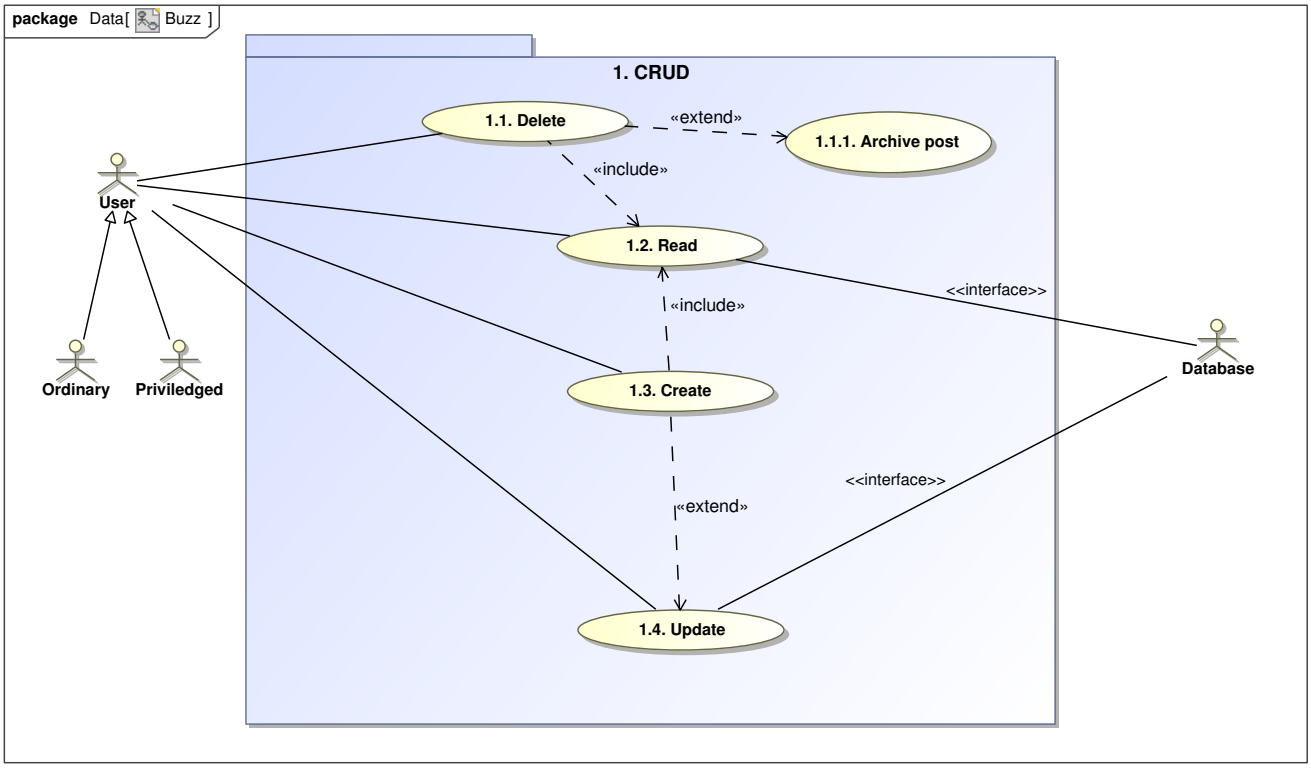
3.2 Post-Conditions

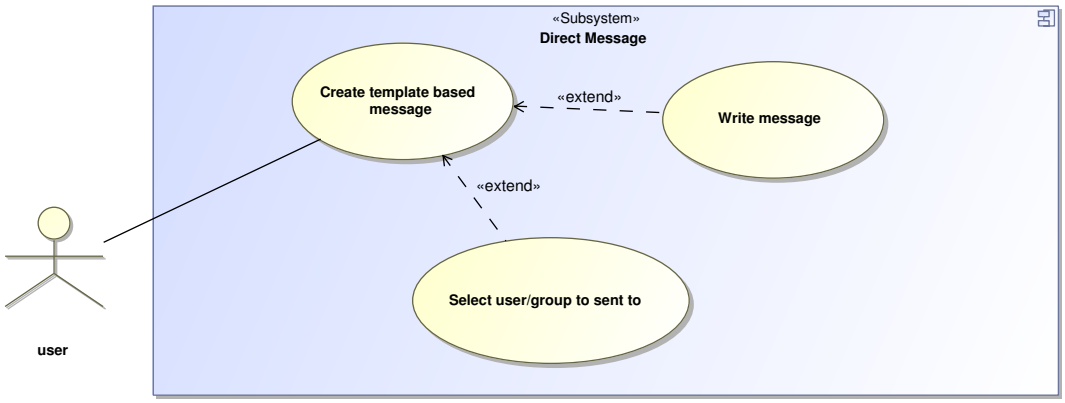
1.1 a) Post will not exist in database
1.1 b)Post will not be visible to users
1.1.1a)Post and log data will reside in an archive
1.3 a) Update request will be called on the new data
1.3 b)Post will be visible to users who are logged into the system
1.4 a) Post data will be inserted into database
1.4 b)Post will exist in database
2.1 a A direct message is sent by user and recieved by recipients
3.1 a User views visualized statistical information
4.1 a Comment should be visible to all users of that level

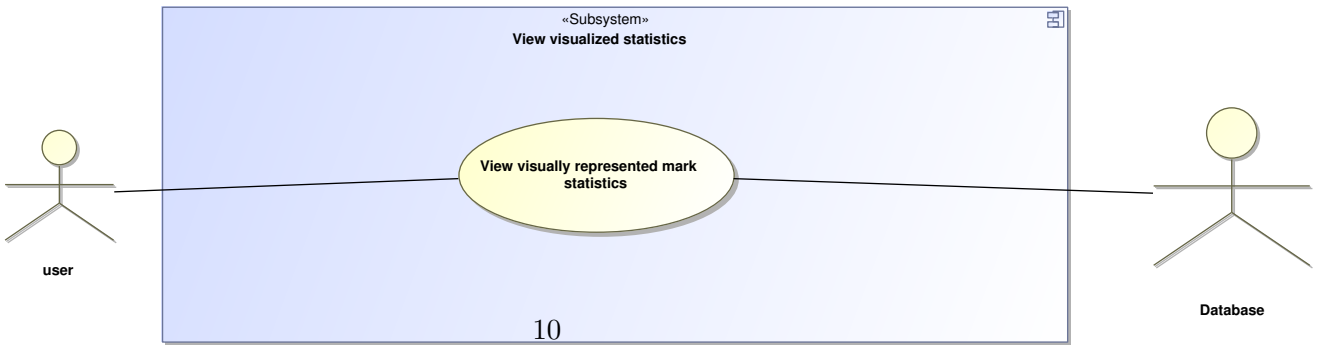
3.3 Request and Results Data Structures

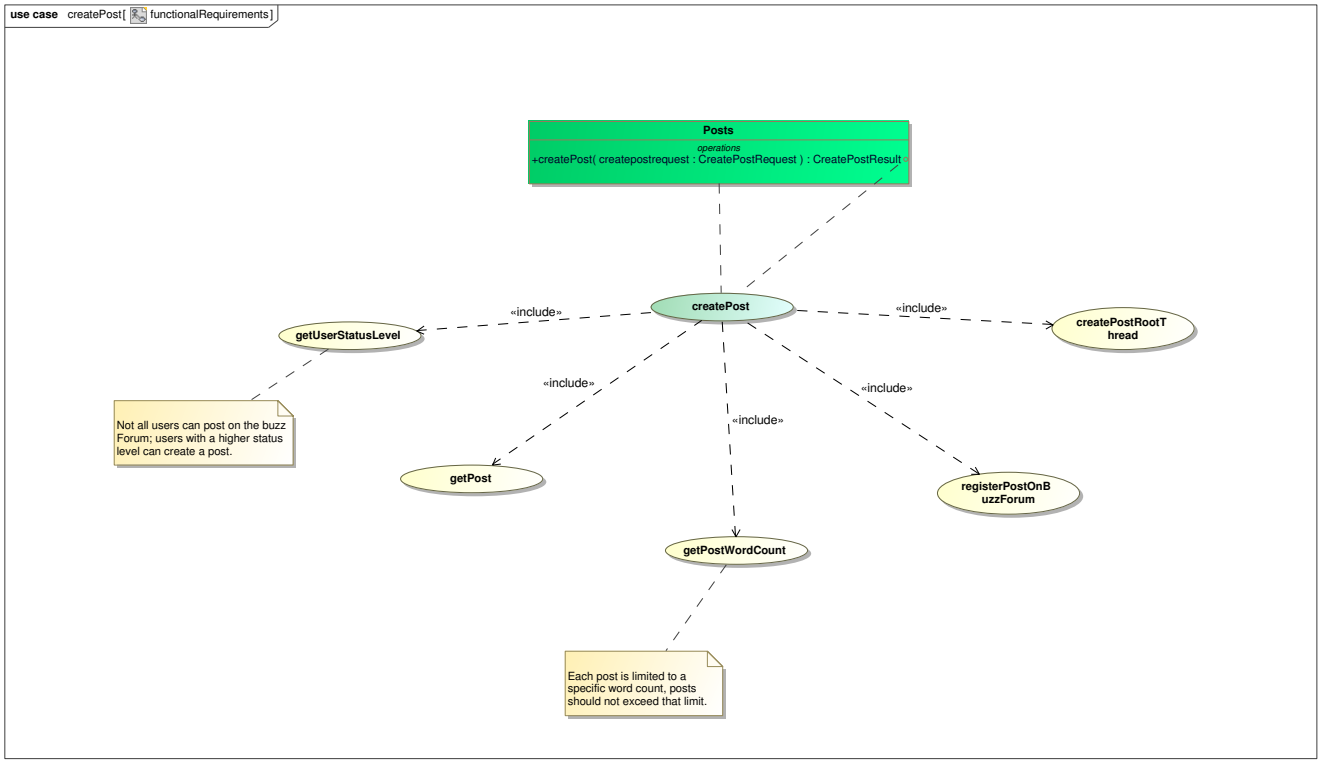


4 Required functionality

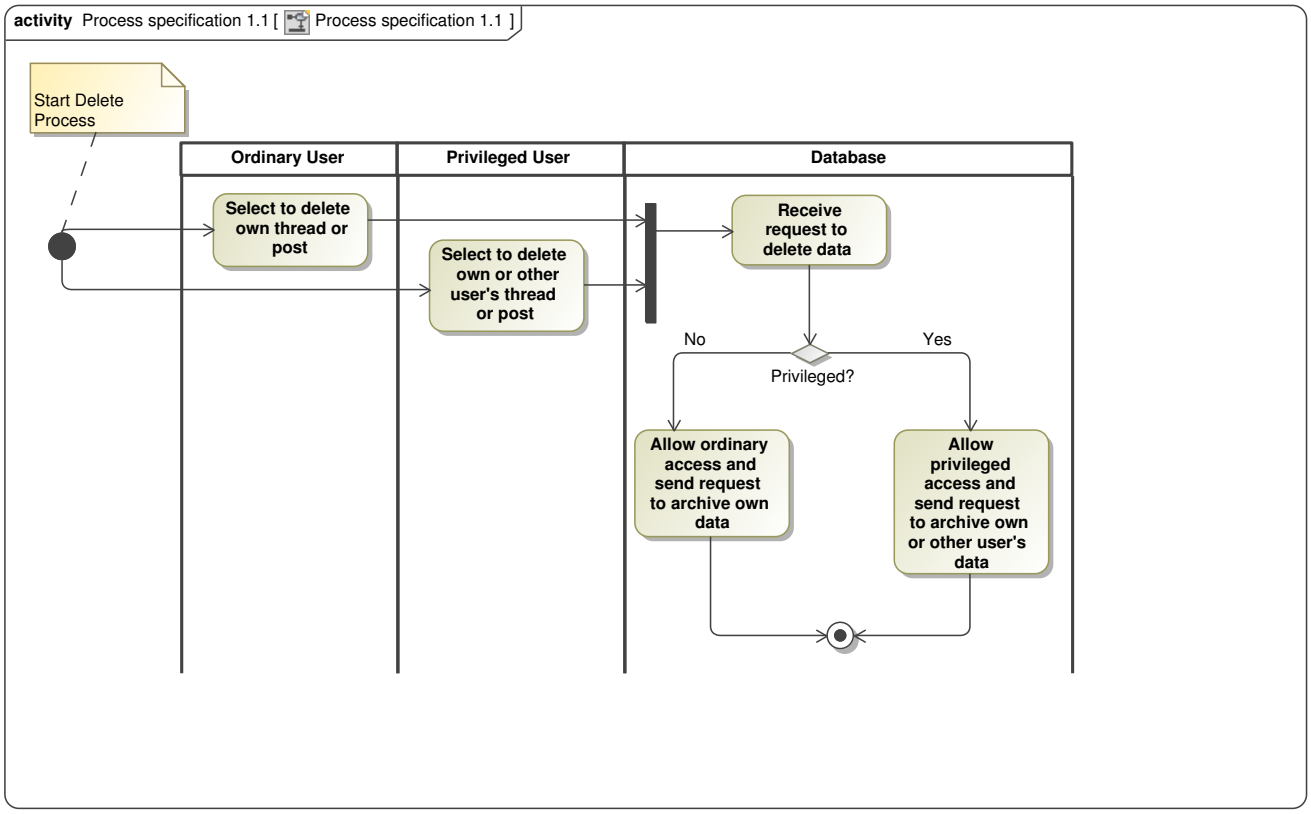


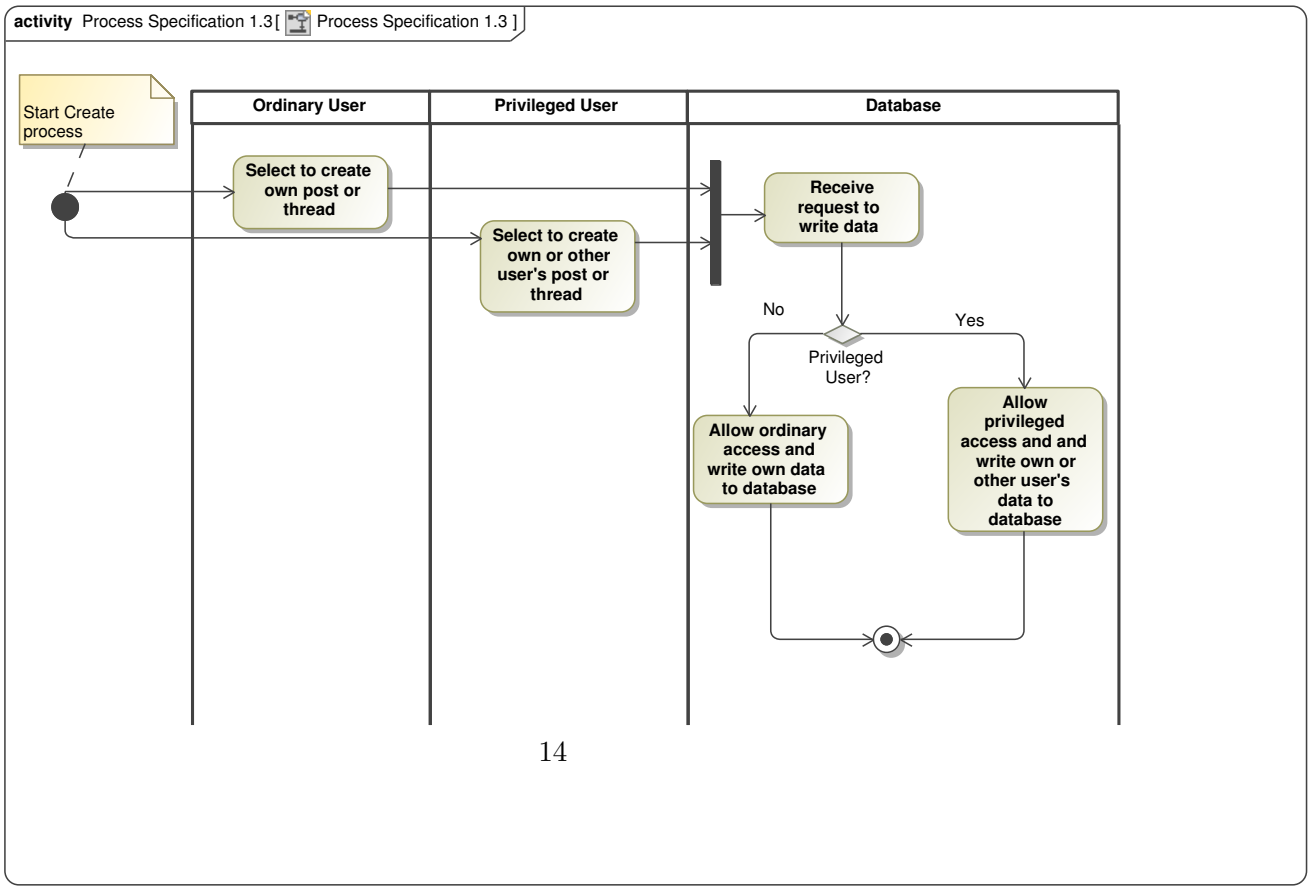


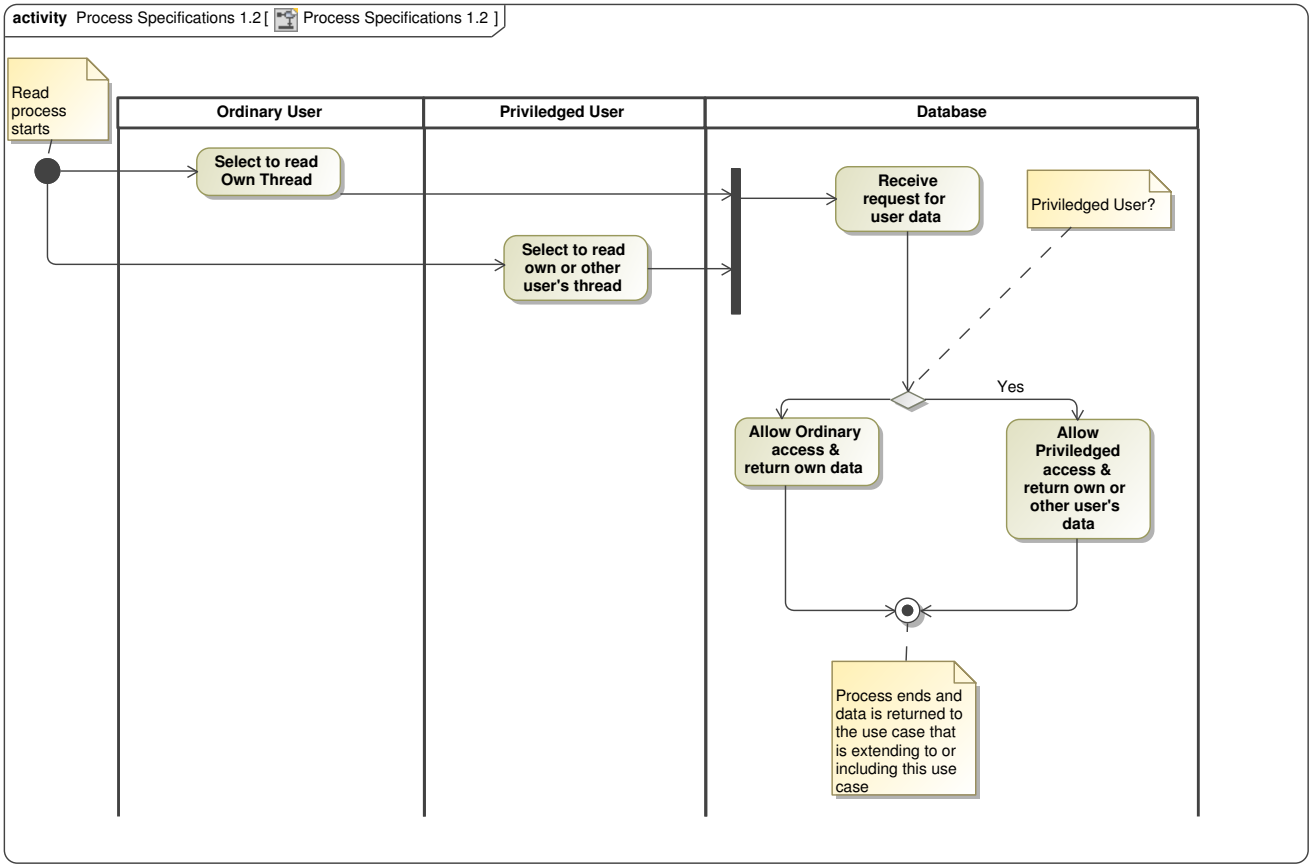


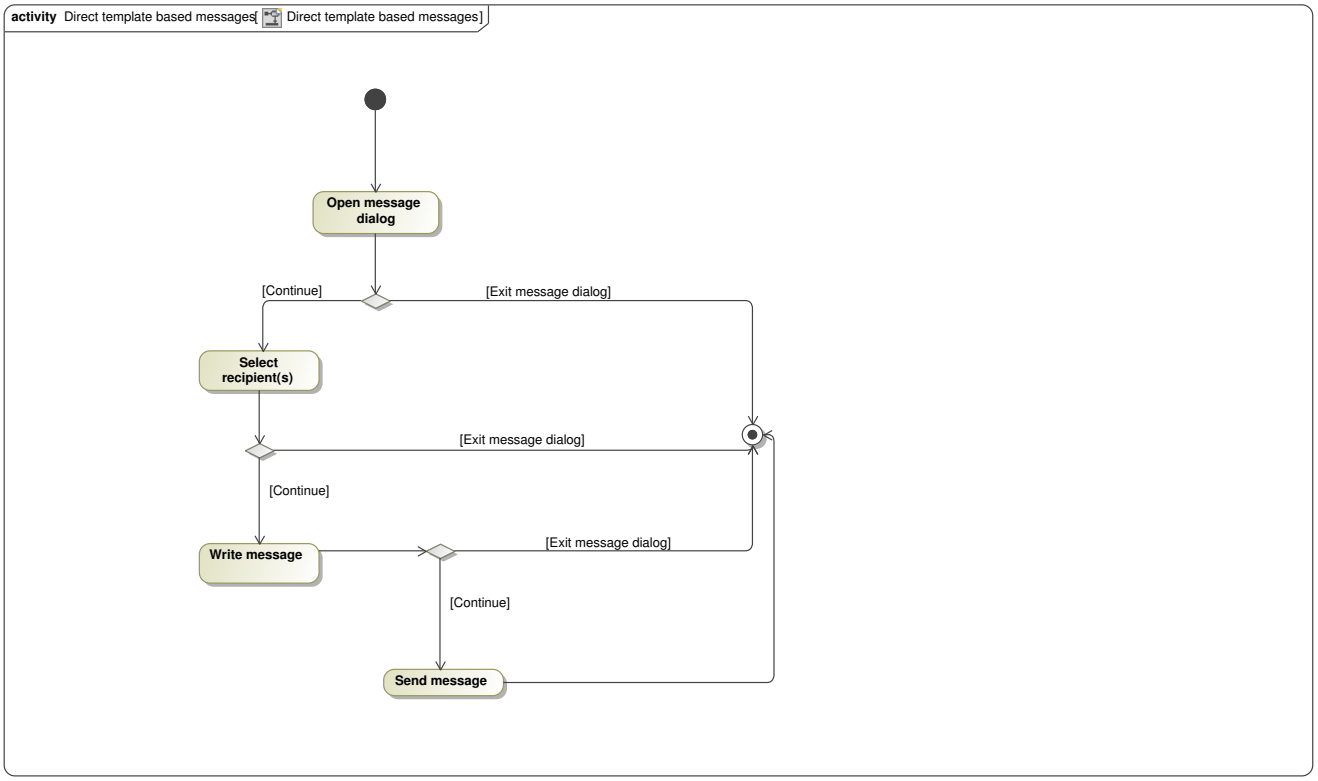

use case createPost[functionalRequirements]
Posts
operations
+createPost(createpostrequest : CreatePostRequest) : CreatePostResult
createPost
getUserStatusLevel
«include»
createPostRootThread
«include»
Not all users can post on the buzz Forum; users with a higher status level can create a post.
getPost
«include»
getPostWordCount
«include»
registerPostOnBuzzForum
«include»
Each post is limited to a specific word count, posts should not exceed that limit.

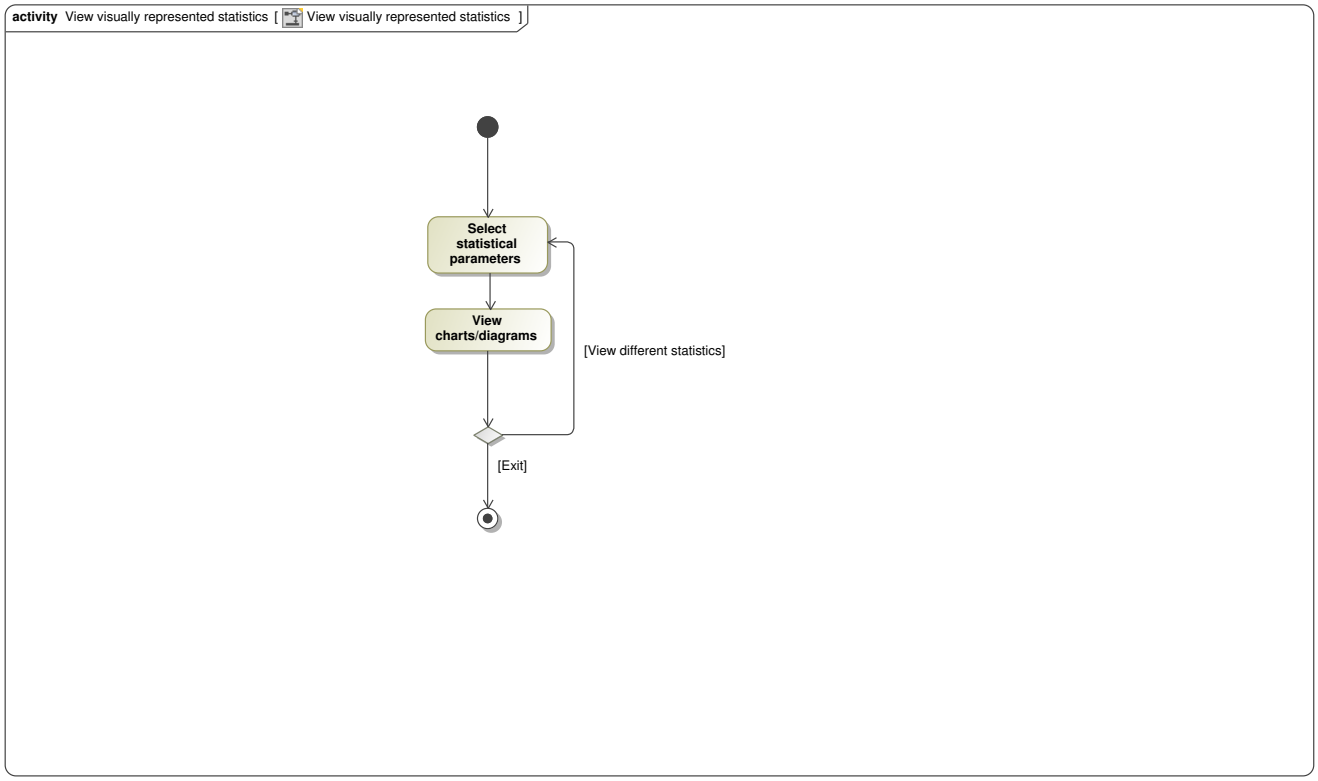
5 Process specifications

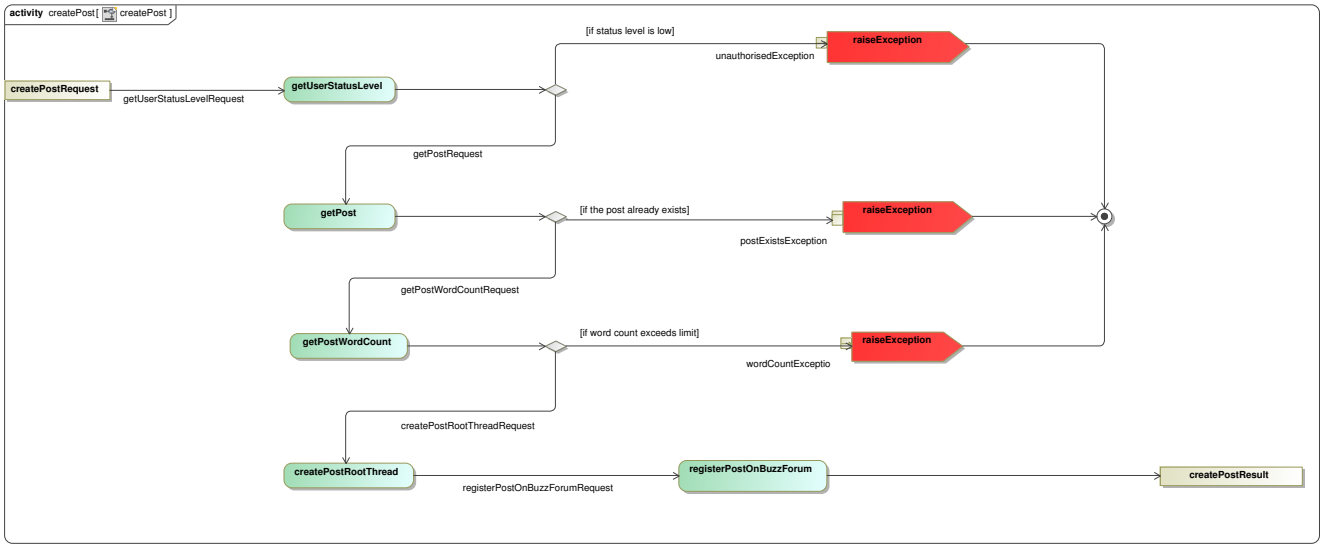
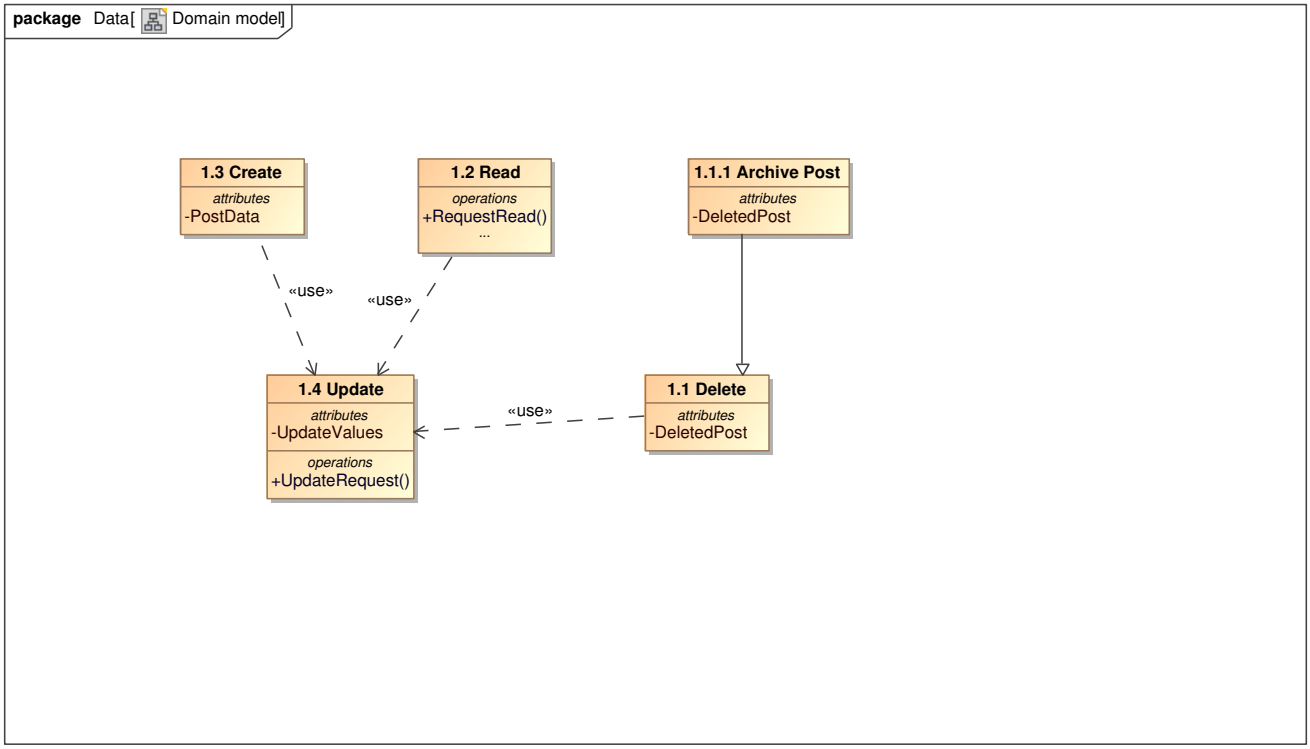
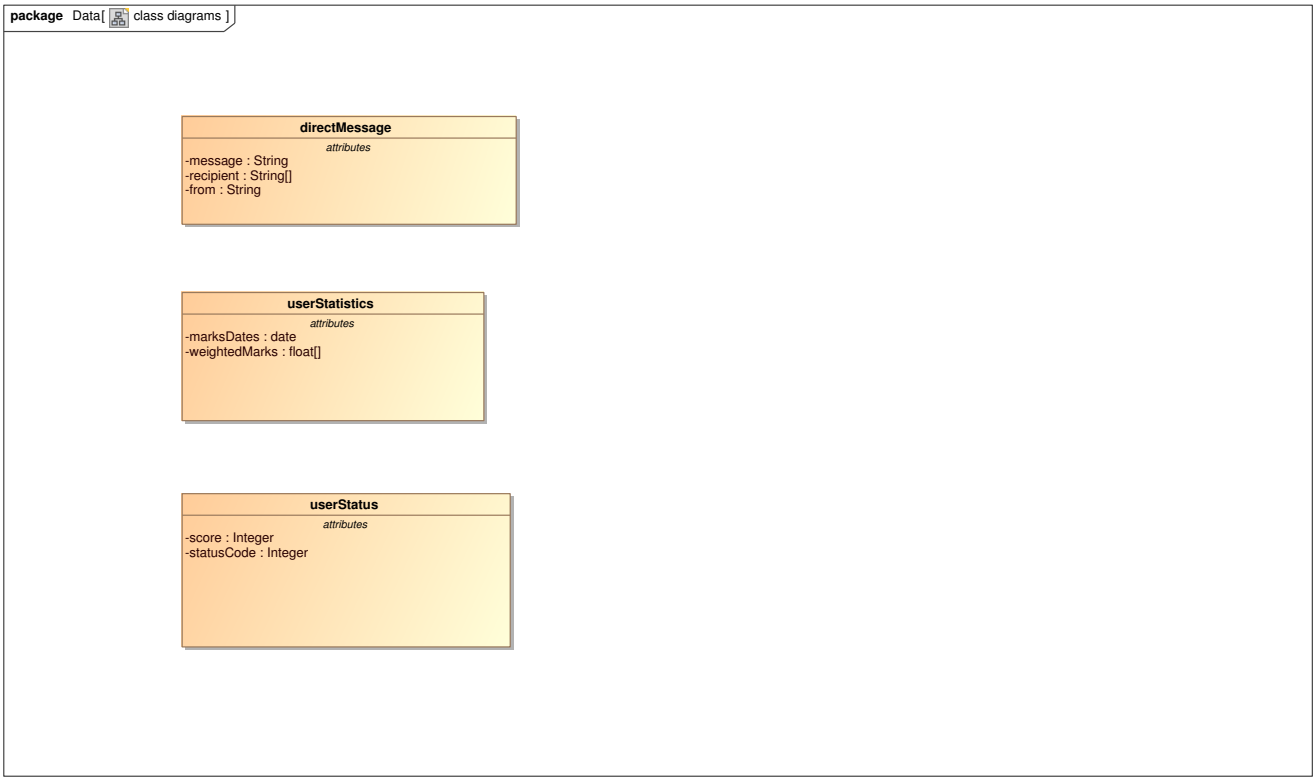





activity Process Specifications 1.2 [Process Specifications 1.2]
Read process starts
Ordinary User
Priviledged User
Database
Select to read Own Thread
Select to read own or other user's thread
Receive request for user data
Priviledged User?
Yes
Allow Ordinary access & return own data
Allow Priviledged access & return own or other user's data
Process ends and data is returned to the use case that is extending to or including this use case


activity Direct template based messages[Direct template based messages]
Open message dialog
[Continue]
[Exit message dialog]
Select recipient(s)
[Exit message dialog]
[Continue]
Write message
[Exit message dialog]
[Continue]
Send message


activity View visually represented statistics [View visually represented statistics]
Select statistical parameters
View charts/diagrams
[View different statistics]
[Exit]


activity createPost [createPost]
createPostRequest
getUserStatusLevelRequest
getUserStatusLevel
[if status level is low]
unauthorisedException
raiseException
getPostRequest
getPost
[if the post already exists]
postExistsException
raiseException
getPostWordCountRequest
getPostWordCount
[if word count exceeds limit]
wordCountExceptio
raiseException
createPostRootThreadRequest
createPostRootThread
registerPostOnBuzzForumRequest
registerPostOnBuzzForum
createPostResult

6 Domain Model