Functional Requirements

Group Name: Group 6_b

Jessica (JI) Lessev	13049136
Thabang (TM) Letageng	13057937
Michelle Swanepoel	13066294
Prenolan Govender	13102380
Fako (FJA) Peleha	12230830
Lutfiyya Razak	10198408
Ephiphania Munava	10624610
Maria Qumalo	29461775

Git repository link:
https://github.com/u12230830/COS301_6b

Date: 27 February 2015

1 Functional Requirements

1.1 Use case prioritization

Jessica and Michelle
Jimmy
Critical: Closing threads is very essential in maintaining order within the system. If a final answer to any query has been reached then there should be no further discussion regarding it. Alternatively, a request can be sent to the administrator to reopen the thread should there be any further developments with regard to the given problem. **Critical**: The Hiding of Threads is also very essential to the integrity of the system. This allows the administrator to use their own discretion with regard to the given thread. If the content of the thread is misleading, vulgar, plagiarized etc. it is up to the administrator to see to it that the thread is blocked or hidden from other users to avoid any conflict.
Important: The moving of content within the system is very important. It may occur that a similar issue has been raised in another thread or Buzz space. To avoid duplication of discussions, it is necessary do duplicate the solution. Another case exists where a post is not relevant to an active discussion but is very valuable to another. The administrator should therefore be able to actively move that content to a relevant Buzz space/thread.
Nict-To-Have: It is preferable to summarize a thread i.e. to show only the root and the final answer and the social tags when entering a Buzz space. This makes for a finer design which is more organized and relieves the user of the trouble to rummage through tedious comment. Such a scenario would exist when the amount of content is hefty or when a discussion is lengthy. However, the system will not lose any significant value is this feature is omitted. In many systems, users have the option to expand or collapse threads.
Ephi
Critical: Management of user profiles. Thabang

Prenolan
Important: Voting on and evaluation of posts.
Nice-To-Have: Marking a post as the best answer.

Lutfiyya
Important: Evaluation Report

Maria

1.2 Use case/ Services contracts

Jessica and Michelle
Jimmy

1.3 Summarizing threads

Pre-Condition: The thread has exist. **Pre-Condition**: The thread has to be closed. A conclusion was reached.
Post-Condition: Only the root thread, social tags and the solution thread should be visible to the user. A link to the fully expanded thread and children should be available. **Post-Condition**: The thread must still exist.

1.4 Hiding Threads

Pre-Condition: The thread must exist. **Pre-Contition**: The threads integrity has to questionable.
Post-Condition: The thread must still exist. **Post-Condition**: The thread must be hidden from the end users but visible to the system.

1.5 Closing threads

Pre-Condition: The thread must exist. **Pre-Contition**: A conclusion has to have been agreed upon.
Post-Condition: The thread must still exist. **Post-Condition**: No further sub-threads may be created. **Post-Condition**: Thread must be available for summary.

1.6 Moving Threads

Pre-Condition: The thread must exist. **Pre-Contition**: The destination has to relevant to the thread.
Post-Condition: The thread must still exist. **Post-Condition**: The thread may or may not exist depending on the relevance to the space. Ephi

1.6.1 Managing User Profile

Pre-Condition: A user must be a registered member of the university and a registered member of one or more modules available on the BuzzSpace.
Post-Condition: The user is registed and can now login thus it is now possible for the user to comment, tag and vote for threads on the BuzzSpace.

The user now has a profile on the BuzzSpce meaning the can have a status, thus enabling diffent functionality at different status levels.
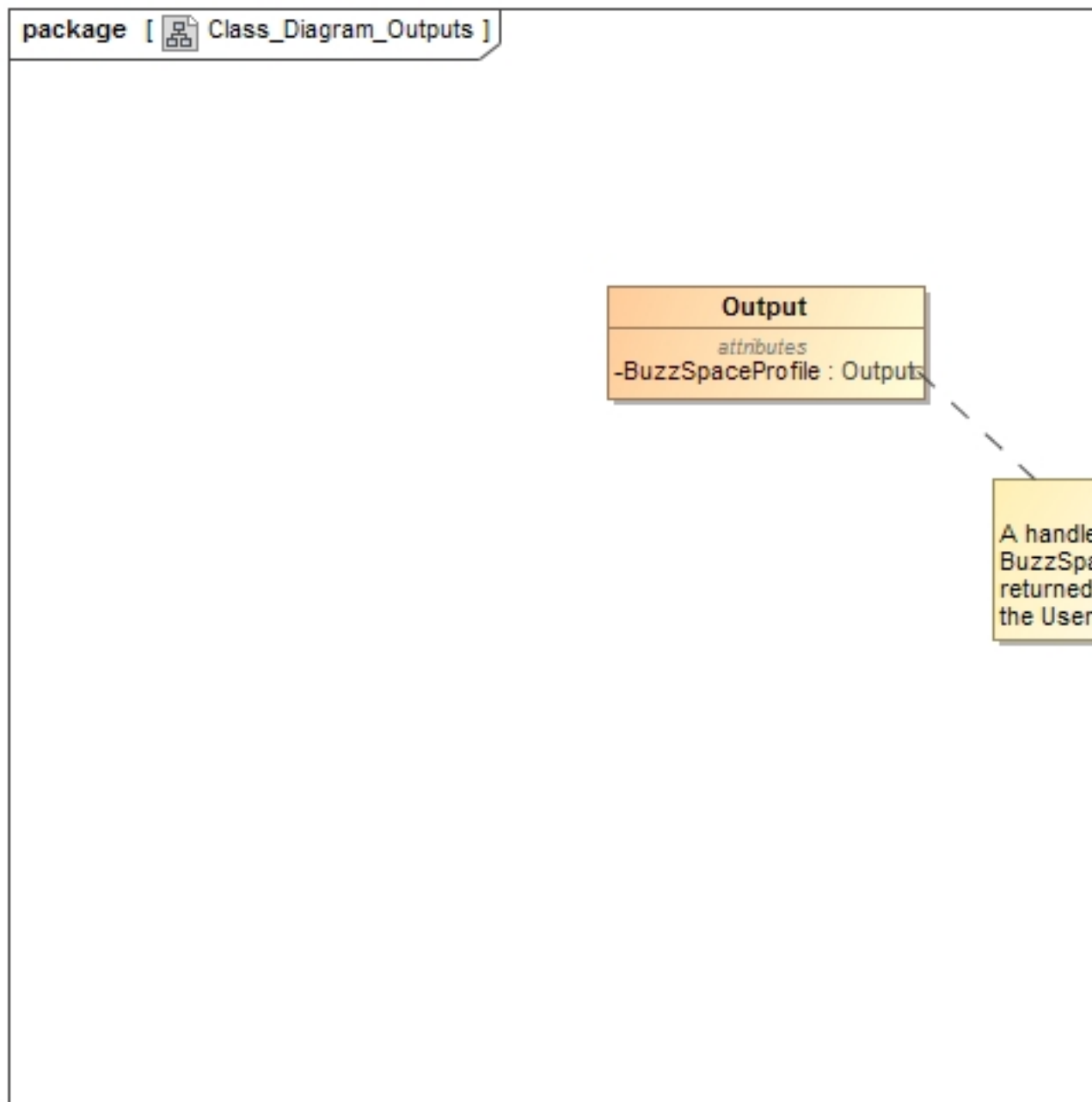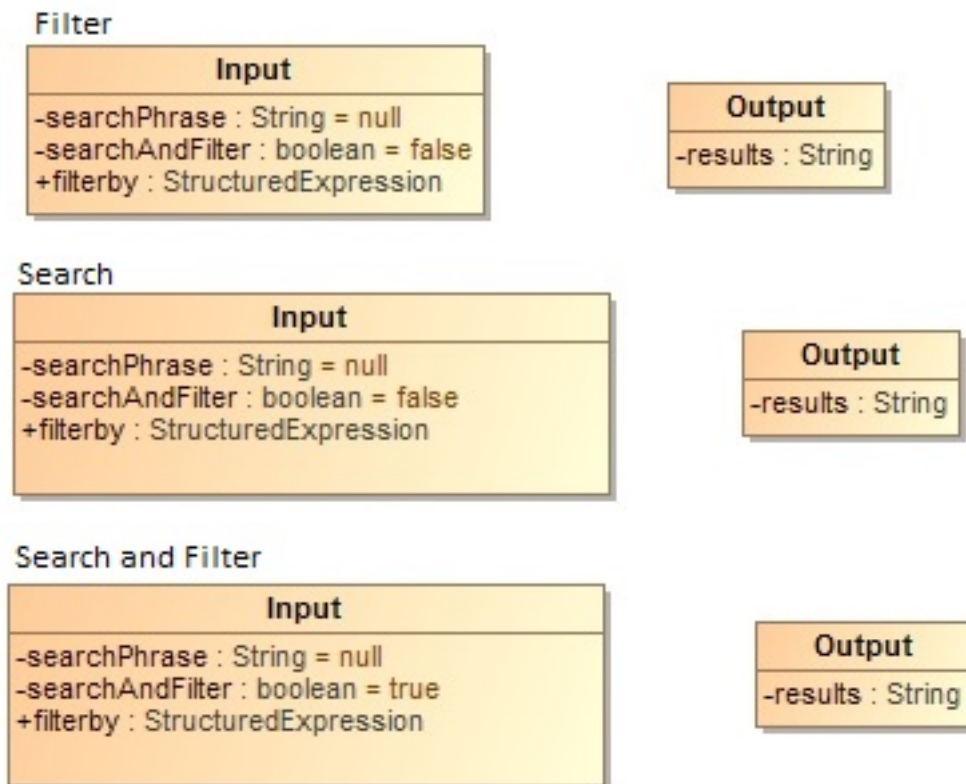
Thabang

1.6.2 Filtering

Description: This module provides a search and filter functionality. Users
can filter the Buzz Space by tags, date,user or by user-rating. They can also
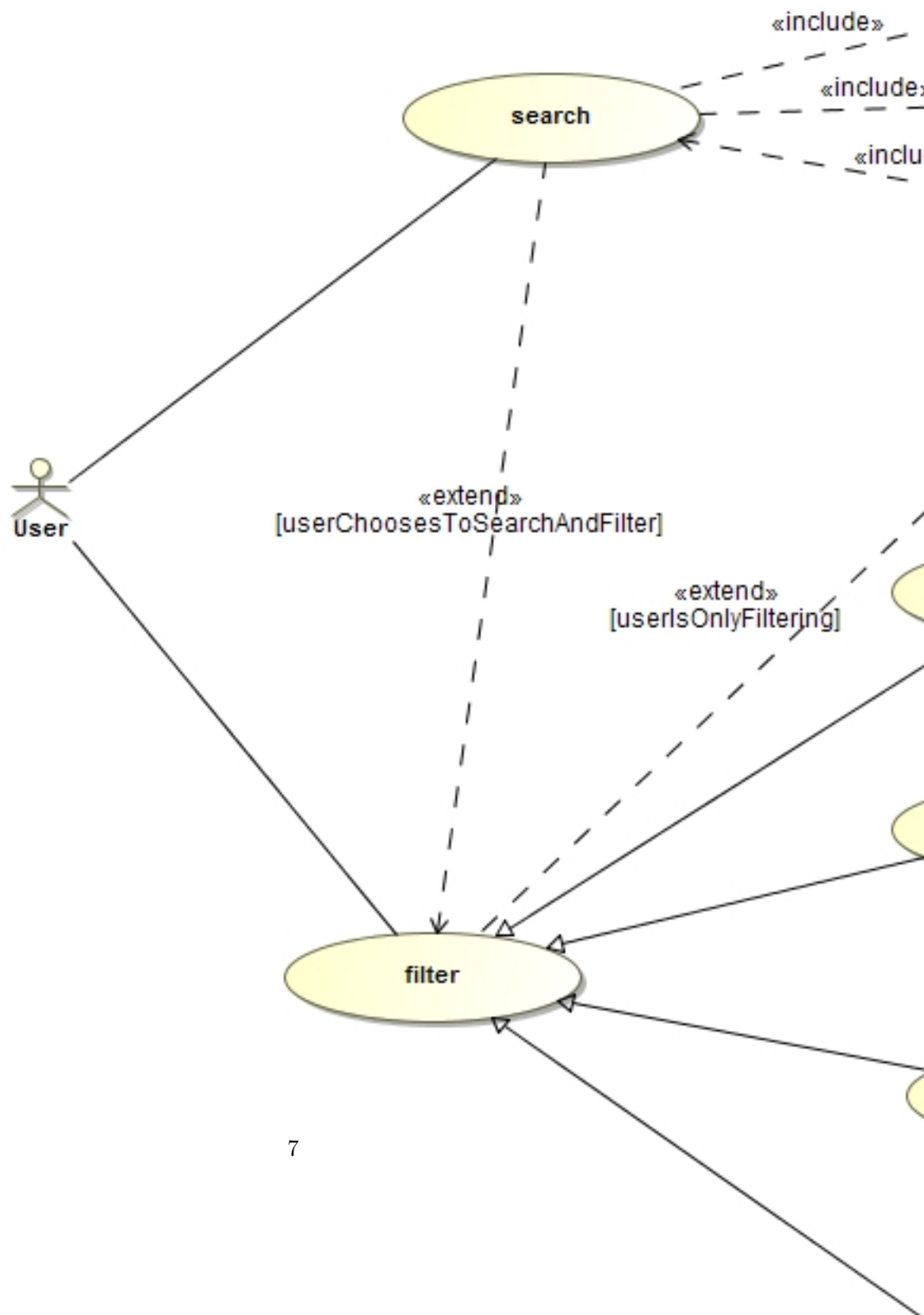
search through the Buzz Space by entering a search-phrase in a search box, alternatively they can both search and filter i.e filter the search-results by tags, date, user or user-rating.

Pre-Condition: A specific Buzz Space has to have been created for a user to be able to search and/or filter.
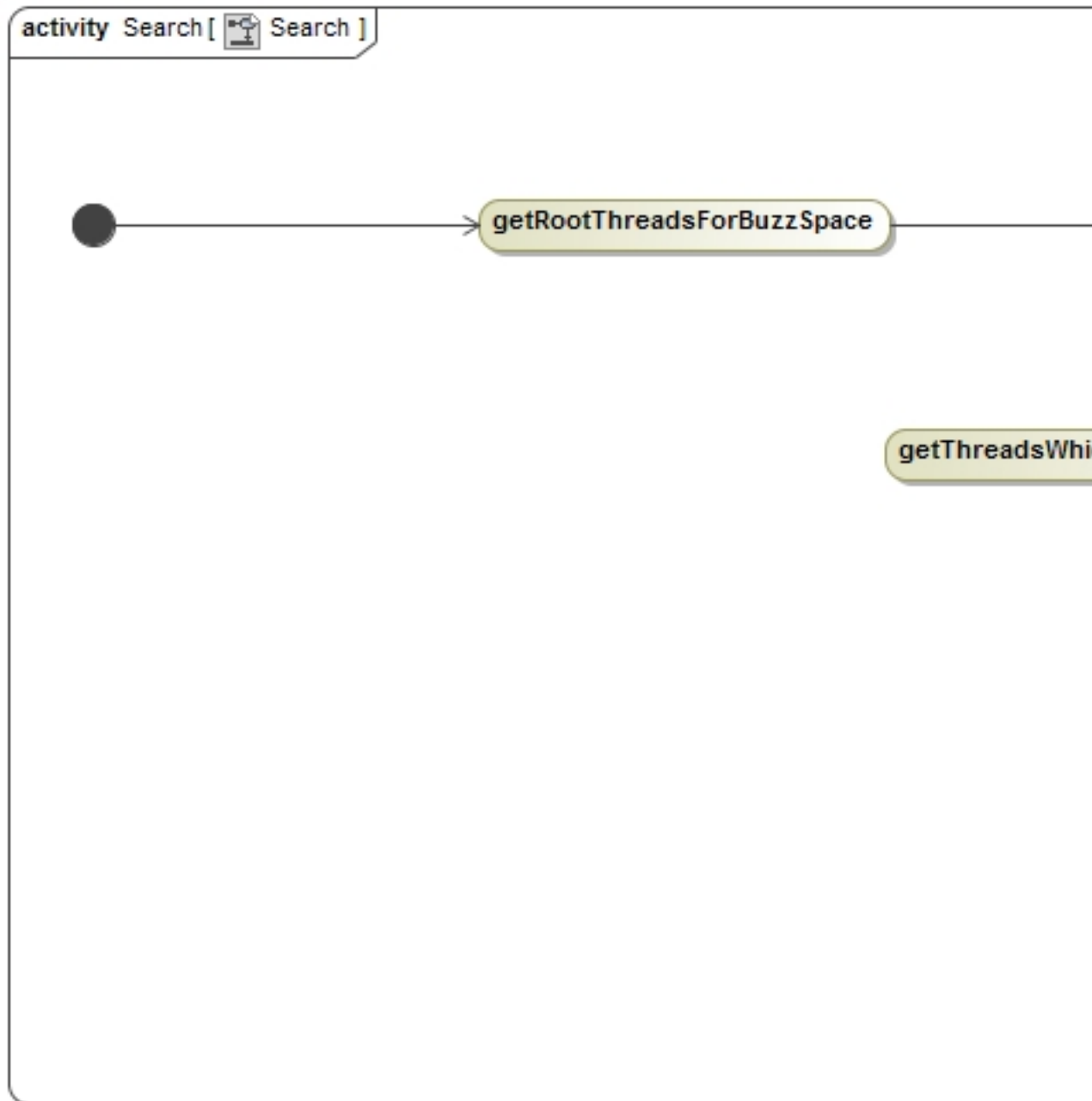
Post-Condition: Upon clicking the submit button, the search and/or filter results will be automatically displayed for the user to see.
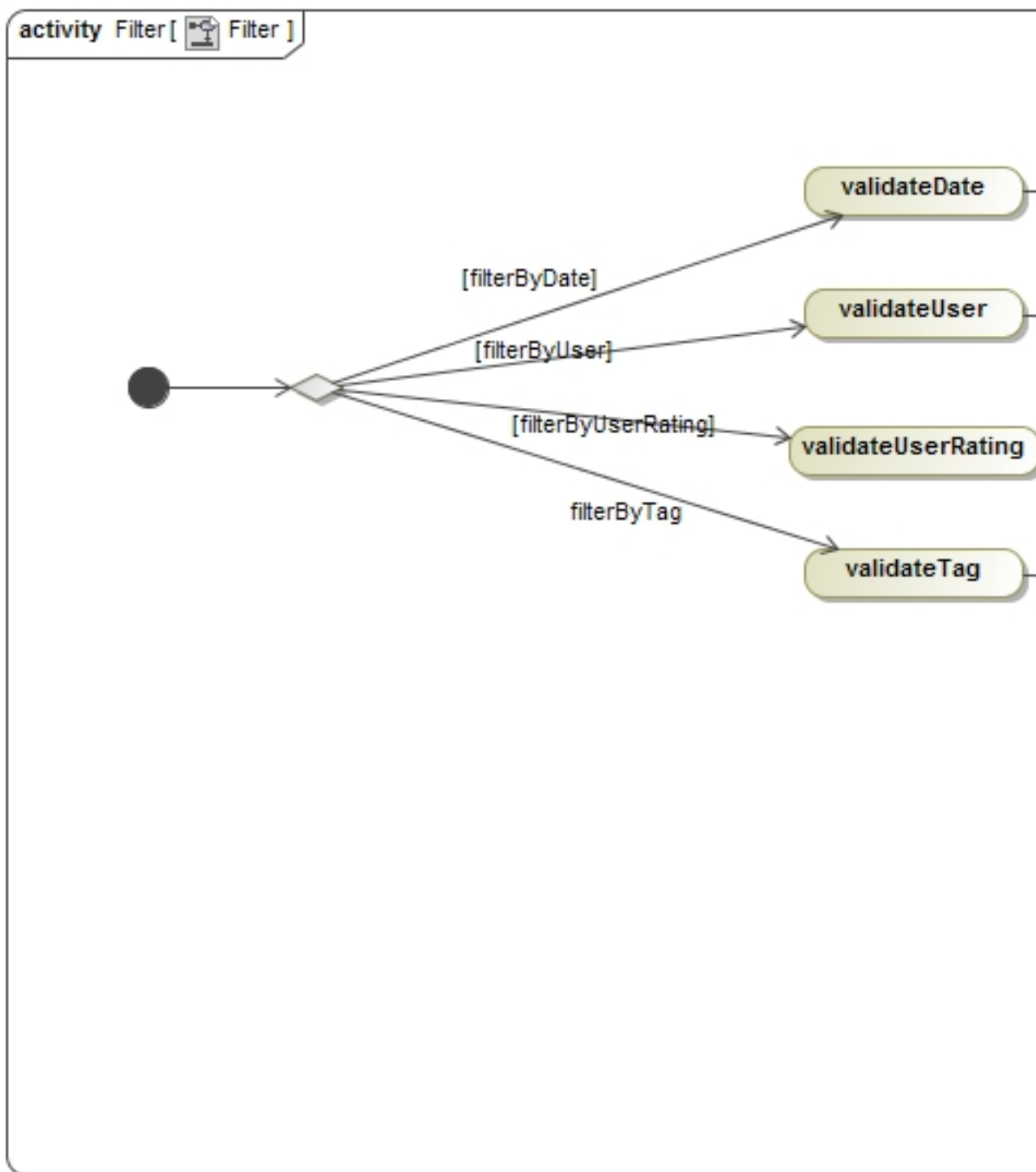
Filter

Input
-searchPhrase : String = null
-searchAndFilter : boolean = false
+filterby : StructuredExpression

Output
-results : String

Search

Input
-searchPhrase : String = null
-searchAndFilter : boolean = false
+filterby : StructuredExpression

Output
-results : String

Search and Filter

Input
-searchPhrase : String = null
-searchAndFilter : boolean = true
+filterby : StructuredExpression

Output
-results : String

Required Functionality/Use case diagram

«include»

«include»

search

«inclu

«include»

«extend»
[userChoosesToSearchAndFilter]

«extend»
[userIsOnlyFiltering]

User

filter

7

Process specifications

activity Search [Search]

getRootThreadsForBuzzSpace

getThreadsWhi

activity Filter [⊞ Filter]

validateDate

[filterByDate]

validateUser

[filterByUser]

[filterByUserRating]

validateUserRating

filterByTag

validateTag

9

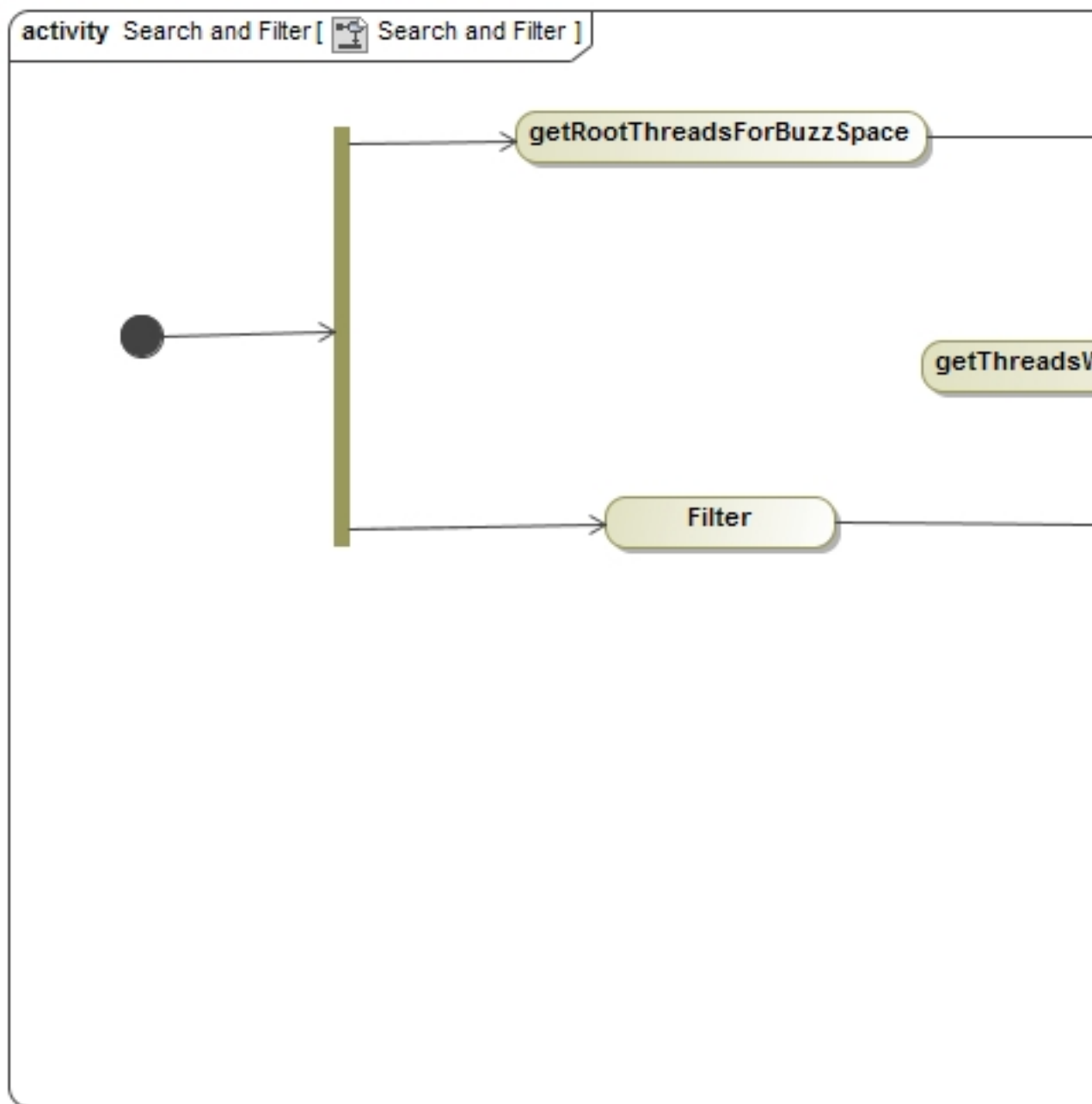activity Search and Filter [Search and Filter]

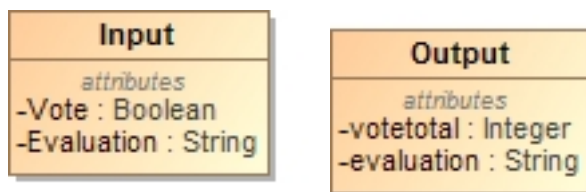getRootThreadsForBuzzSpace

getThreadsV

Filter

Prenolan

1.6.3 Voting and Evaluation

Pre-Condition: A post has to have been created for a user to be able to vote on or evaluate it. Any user can vote on or evaluate a post as long as the user is logged in and a part of a specific Buzz Space. An exception to this rule is when the administration of a Buzz Space set specific rules as to which users (perhaps based on status) can vote on or evaluate posts.

Post-Condition: A vote or evaluation has to be visible to every user (or only some based on the administration of that space) after it has been made on a post. A positive vote or evaluation has to reflect upon the posters progress to the next status level.

Input	Output
attributes	*attributes*
-Vote : Boolean	-votetotal : Integer
-Evaluation : String	-evaluation : String

1.6.4 Best Answer

Pre-Condition: A user must have the privileges set by the administration of a space in order to mark a post as the best answer. The user is required to be logged in.

Post-Condition: The thread should effectively display that an answer has been selected and optionally close the thread. The poster of the best answer should acquire an increase in progress to the next status level.
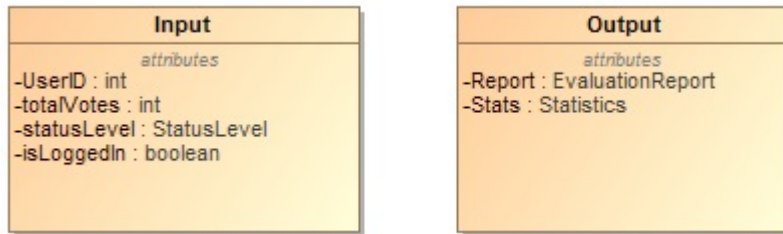
Input	Output
attributes	*attributes*
+bestAnswer : Boolean = false	+solution : Boolean = true
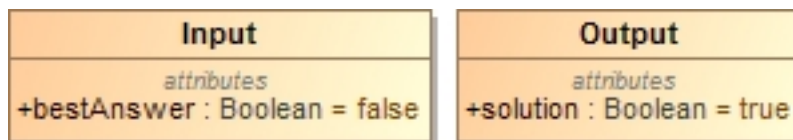
Lutfiyya

1.6.5 Evaluation Report

Pre-Condition: A lecturer has to be a registered user of a Buzz Space and must also be logged in to be able to generate an evaluation report of the students. The UserID of a participant should exist for reporting purposes.

Post-Condition: A lecturer should get statistical information about each student and generate an evaluation report for a participant
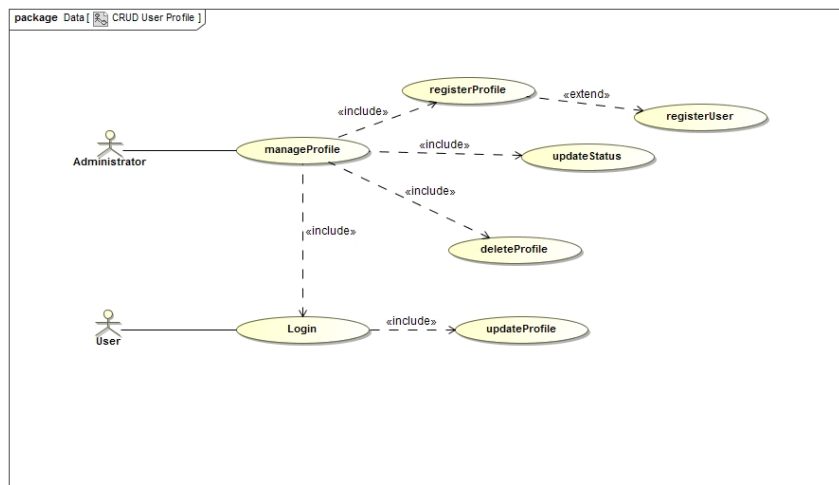
Maria

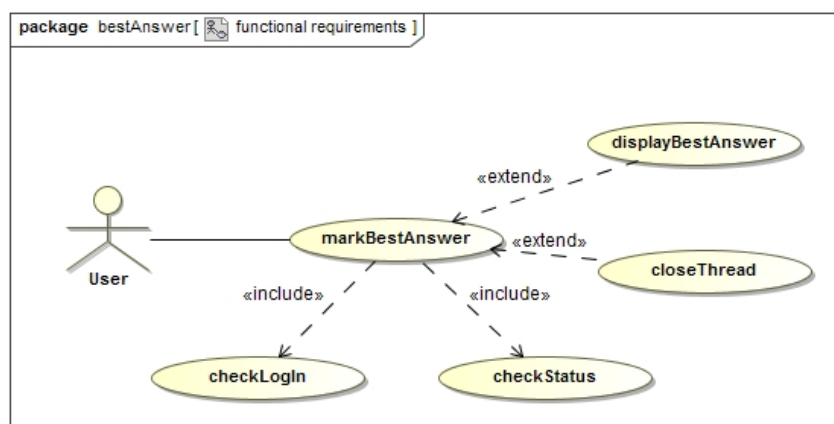## 1.7   Required functionality
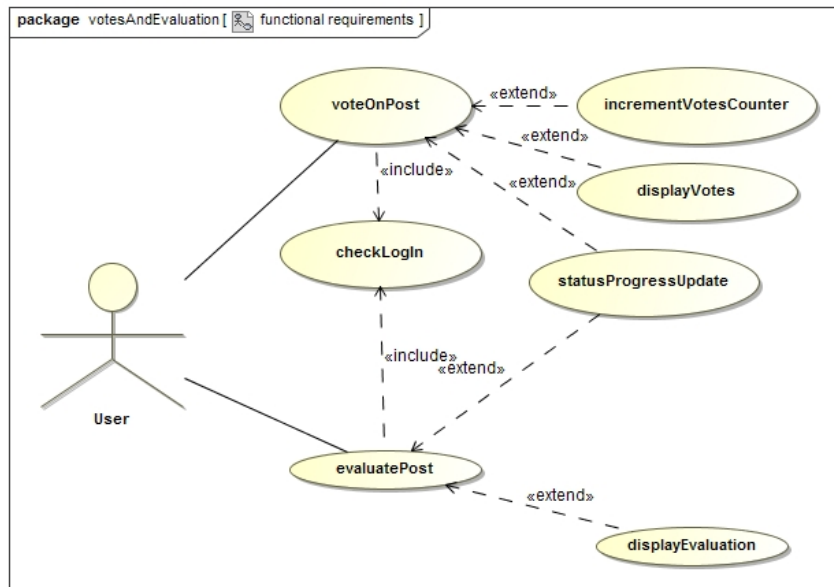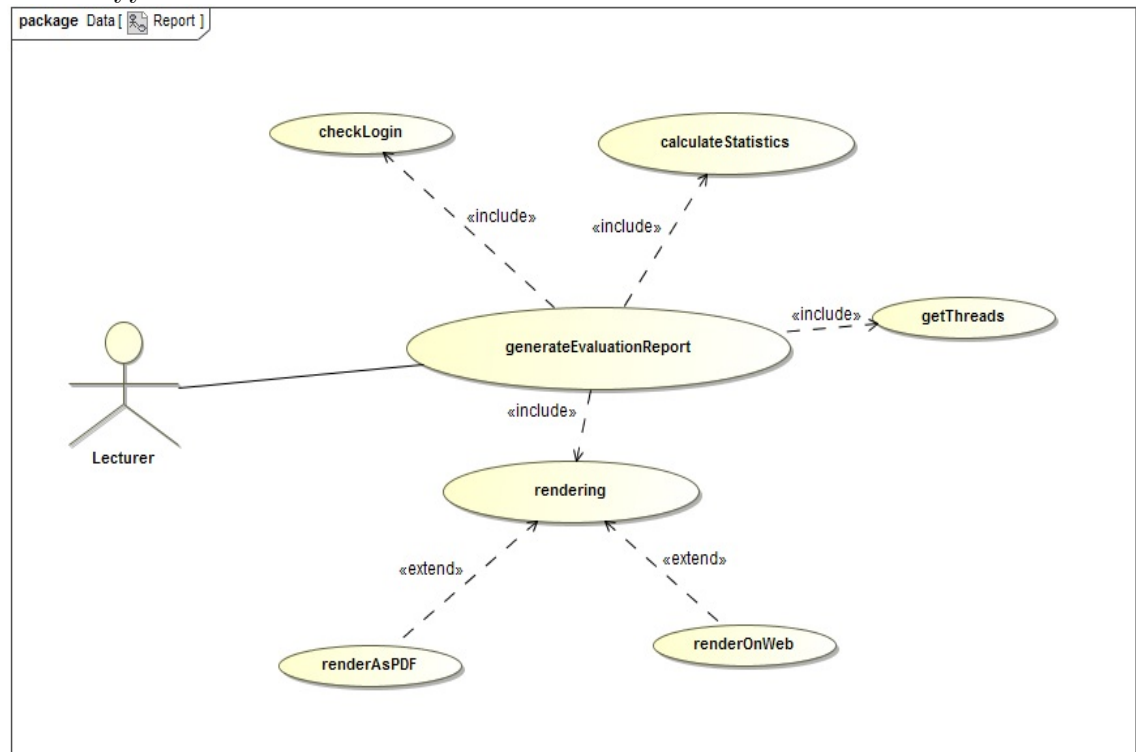
Jessica and Michelle
Jimmy
Ephi

Thabang
Prenolan

package votesAndEvaluation [🖧 functional requirements]

- voteOnPost
- «extend» incrementVotesCounter
- «extend» displayVotes
- «include» checkLogIn
- «extend» statusProgressUpdate
- User
- «include» «extend» evaluatePost
- «extend» displayEvaluation

package bestAnswer [🖧 functional requirements]

- displayBestAnswer
- «extend» markBestAnswer
- «extend» closeThread
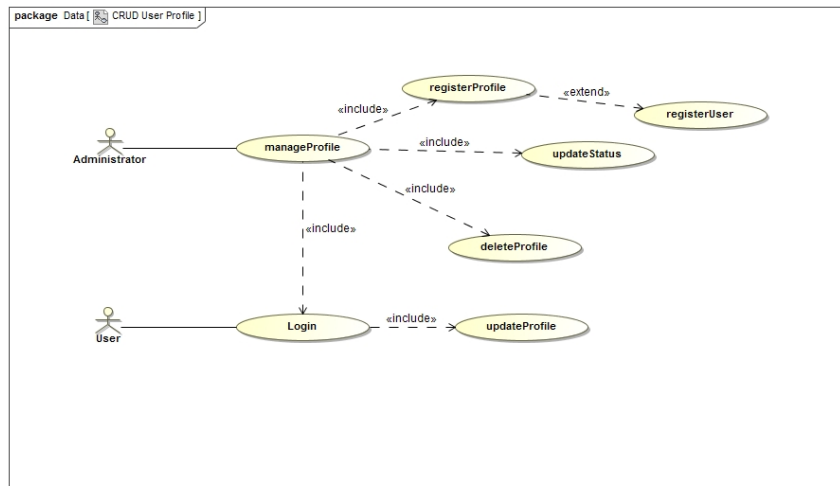- User
- «include» checkLogIn
- «include» checkStatus

Lutfiyya

Maria

1.8 Process specification

Jessica and Michelle
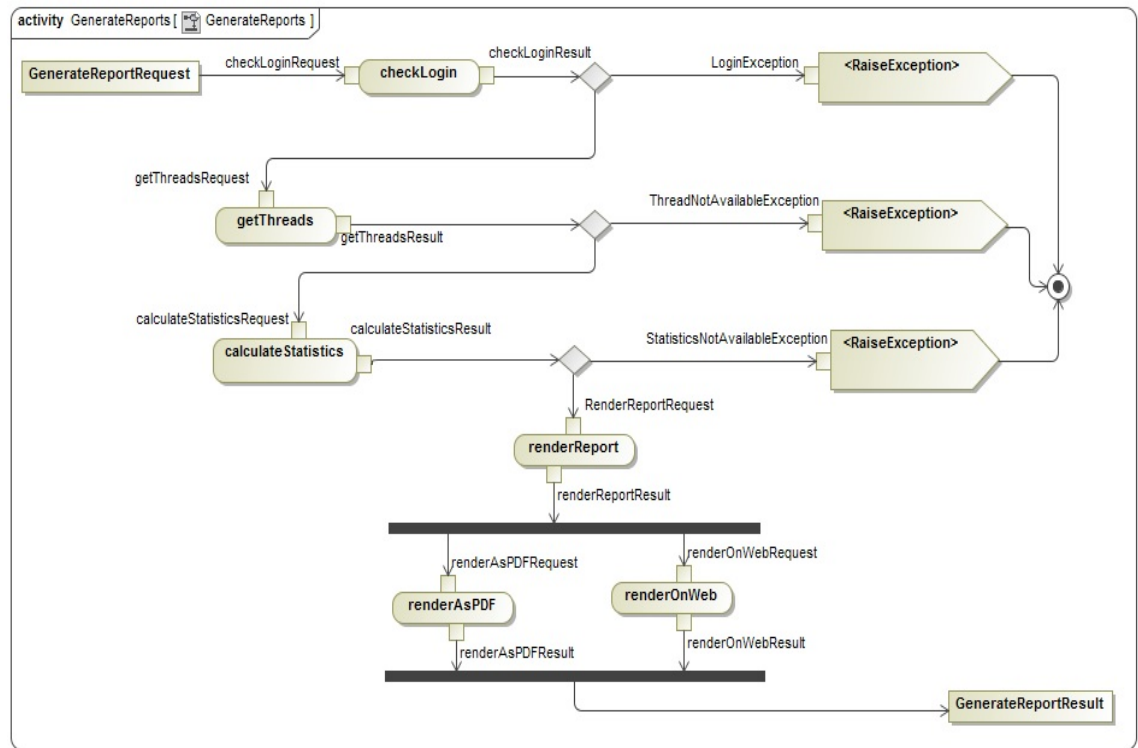Jimmy
Ephi

package Data [CRUD User Profile]

- Administrator
- manageProfile
- registerProfile «include»
- registerUser «extend»
- updateStatus «include»
- deleteProfile «include»
- Login «include»
- User
- updateProfile «include»

Thabang
Prenolan

activity votesAndEvaluation [process specification]

- voteOnPost
- checkLogIn
- [Not Logged In]
- requestLogIn
- [Logged In]
- [User is evaluating]
- [User is voting]
- increaseVotes
- evaluatePost
- displayEvaluation
- displayVotes

activity bestAnswer [process spec]

- markBestAnswer
- checkLogIn
- requestLogIn
- [No]
- [Not Logged In]
- [Logged In]
- [Low Status]
- checkStatus
- [Correct Status]
- displayBestAnswer
- closeThread
- [Yes]
- displayClosedThread

15

Lutfiyya

Maria

1.9   Domain model