askLNU

The goal of the project is to provide a platform for asking questions on some studying materials and receiving answers to them. System allows to create a question in the chosen faculty, add tags, reply to created ones and mark the answers and questions based on how helpful they were.

Roles: Guest, User, Moderator, Admin.

Role	Description
Guest	User that isn't logged in. Can sign up and sign in, view questions and answers, view user accounts.
User	Can create a question, pick a faculty and add tags, search questions, answer them, rate answers and questions. Also can get and change info in his/her account and delete his/her account.
Moderator	View info about users and questions, block/unblock users, delete questions and answers.
Admin	Can give/remove moderator rights, add/remove faculties, add/remove tags.

askLNU System

№	Role	Use Case	Description	Action name	Tests
1	**Guest**	View questions and answers	View list of popular questions,search questions, view answers to the selected question	Details GetLastAnswers	TST5 TST6 TST12 TST13 TST14
2		View user accounts	View list of user accounts, search accounts		
3		Sign up	Create an account	Register	TST24 TST25
4		Sign in	Log into existing account	Login	

5	**User**	Add personal information	Add some information about yourself, e.g. name, group, course, etc.	UserProfile	TST35
6		Edit personal information	Change information about yourself	ChangePhoto	TST34
7		Create a question	Create new question, select faculty, add tags	Create	TST18
8		Add question to favorites	Add question to favorite questions list	AddToFavorites	TST15 TST17
9		Remove question from favorites	Remove question from favorite questions list	AddToFavorites	TST16
10		Answer the question	Leave an answer to the question	AddAnswer	TST1
11		Rate the question	Raise or lower the rating of a question	VoteUp VoteDown	TST19 TST20
12		Rate the answer	Indicate whether the answer was useful or not	VoteUp VoteDown	TST5 TST6
13		Request a label	Request a label from moderator		
14		Sign out	Sign out	Logout	
15		Delete account	Delete account		
16	**Moderator**	Remove questions	Remove questions	DeleteQuestion	TST21
17		Remove answers	Remove answers	DeleteAnswer	TST2
18		Block users	Block users	BlockUser	TST26 TST27 TST32
19		Unblock users	Unblock users	BlockUser	TST26 TST27 TST33
20		Give label	Give label to user		
21		Remove label	Remove label from user		
22		Give rights	Give moderator rights	ChangeRights	TST26 TST27 TST28

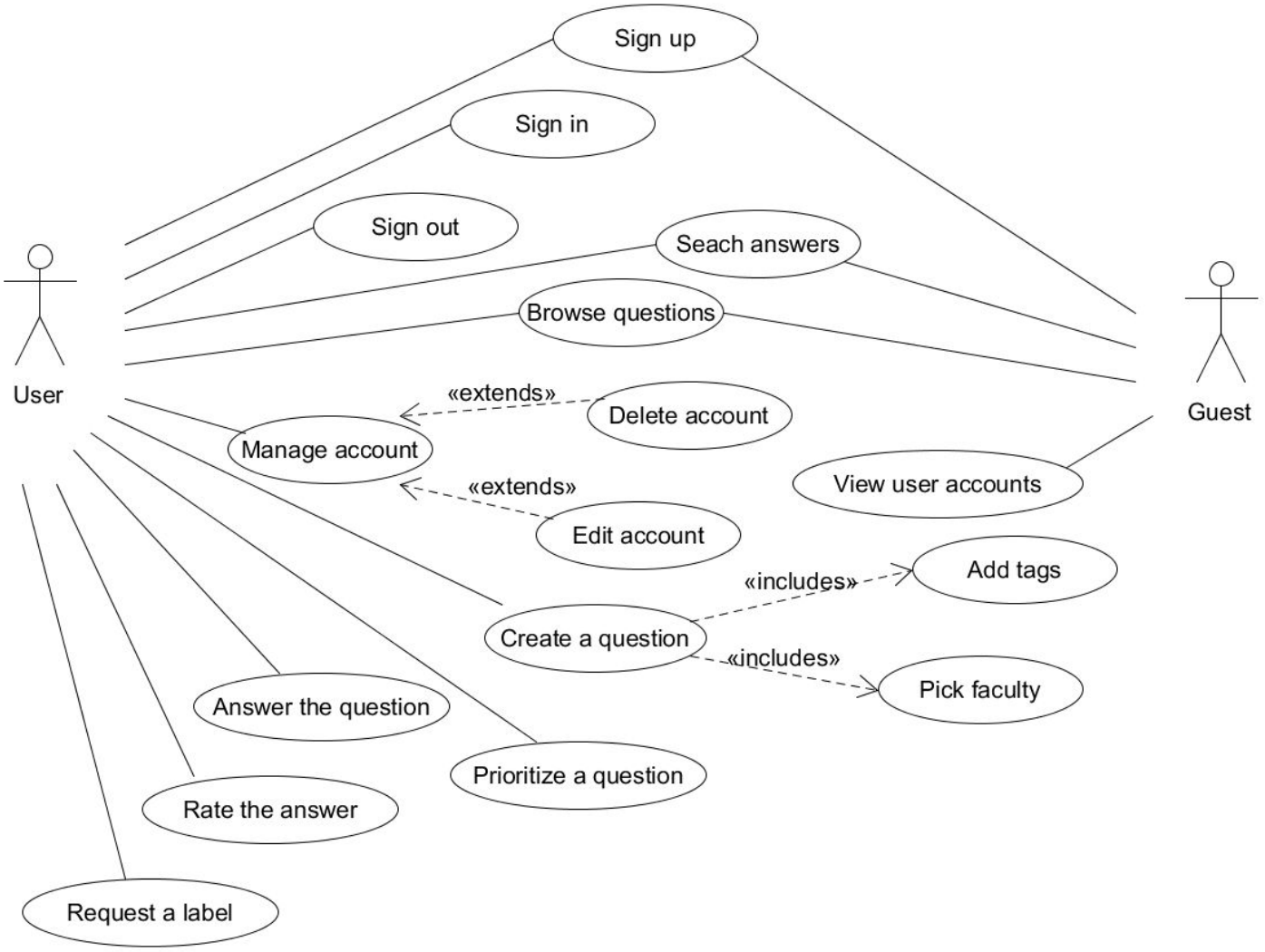
	Admin				TST29 TST30
23		Remove rights	Remove moderator rights	ChangeRights	TST28 TST29 TST31
24		Add faculties	Add faculties	CreateNewFaculty	TST7 TST9 TST10 TST11
25		Remove faculties	Remove faculties	DeleteFaculty	TST8
26		Add tags	Add tags	CreateNewTag	TST22
27		Remove tags	Remove tags	DeleteTag	TST23

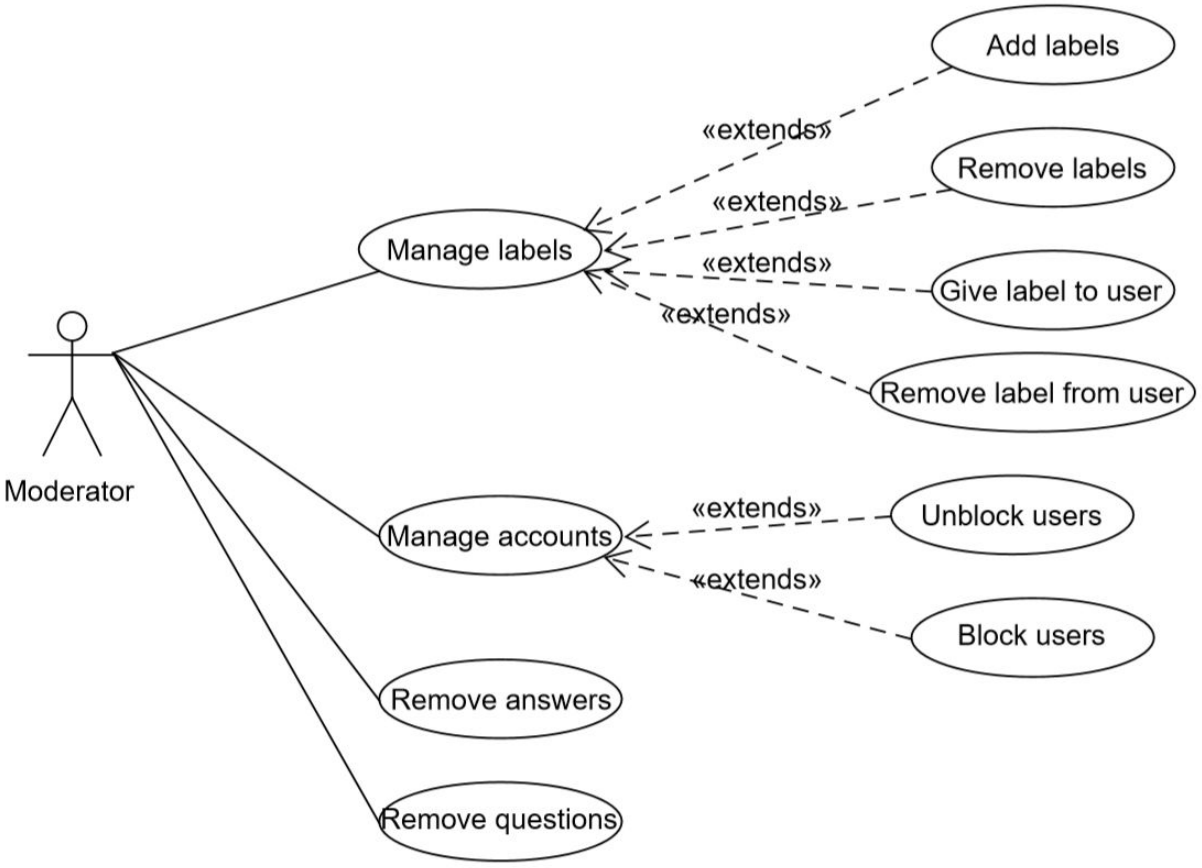
Tests

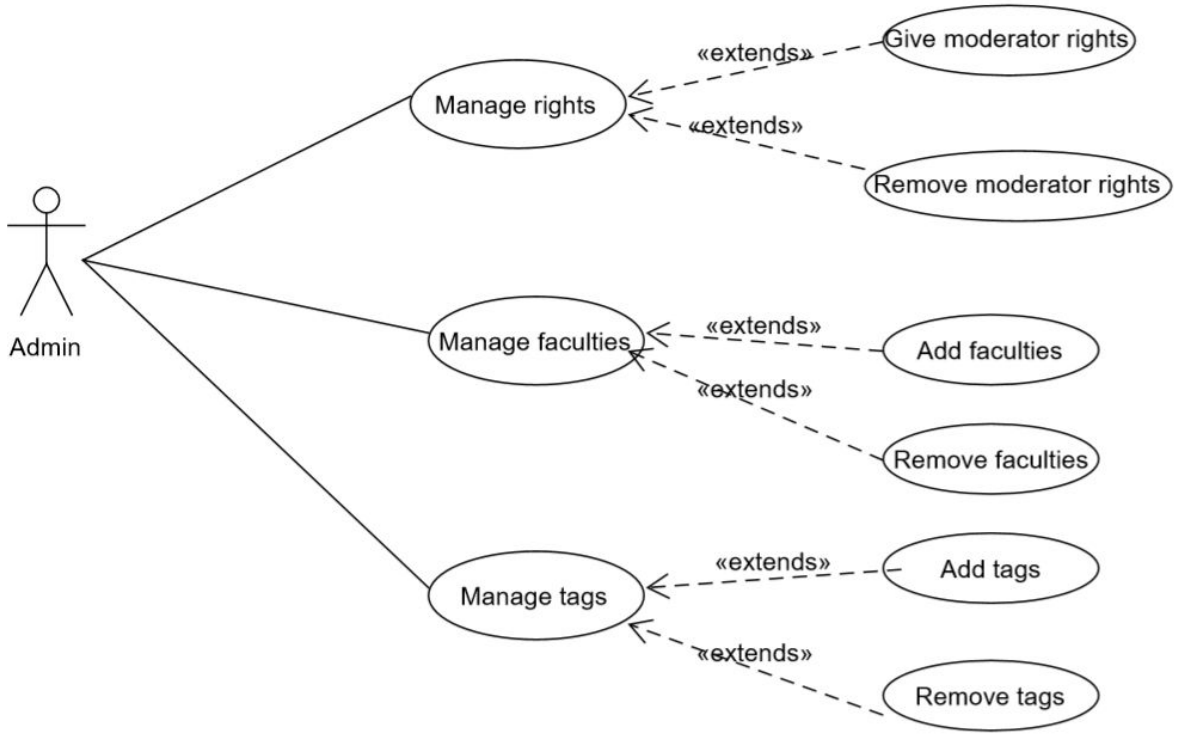
№	Test class	Test method	Code coverage
TST1	AnswerServiceTests	CreateAnswer_ShouldReturnTrue	80%
TST2		DisposeAnswer_ShouldReturnTrue	
TST3		GetAnswersByQuestionId_ShouldReturnTrue	
TST4		GetAnswersByQuestionId_passNullId_ShouldReturnTrue	
TST5		VoteUp_ShouldReturnOne	
TST6		VoteDown_ShouldReturnZero	
TST7	FacultyServiceTests	GetAllFaculties_ShouldReturnTrue	
TST8		DisposeFaculty_PassFacultyId	
TST9		GetFacultyIdByName_PassCorrectName	
TST10		GetFacultyIdByName_PassIncorrectName	
TST11		CreateFaculty_PassCorrectName	
TST12	QuestionServiceTests	GetAllQuestions_ShouldReturnTrue	
TST13		GetTagsByQuestionID_passNullId_ShouldReturnTrue	
TST14		GetTagsByQuestionID_passCorrectId_ShouldReturnTrue	
TST15		IsQuestionFavorite_ShoulReturnFalse	
TST16		RemoveFromFavorites_ShouldReturnEmpty	
TST17		AddToFavorites_ShouldReturnSingle	
TST18		CreateQuestion_ShouldReturnTrue	
TST19		VoteUp_ShouldReturnOne	
TST20		VoteDown_ShouldReturnZero	
TST21		DisposeQuestion_ShouldReturnTrue	

TST22	TagServiceTests	CreateTag_PassTagDTO	
TST23		DisposeTag_PassTagId	
TST24	UserServiceTests	GetByEmailAsync_WithCorrectEmail_ShouldReturnTrue	
TST25		GetByEmailAsync_WithIncorrectEmail_ShouldReturnTrue	
TST26		GetUsersByEmail_WithCorrectEmail_ShouldReturnTrue	
TST27		GetUsersByEmail_WithInCorrectEmail_ShouldReturnTrue	
TST28		CheckIfUserHasRole_ShouldReturnTrue	
TST29		CheckIfUserHasRole_ShouldReturnFalse	
TST30		GiveModeratorRole_ShouldReturnSuccess	
TST31		RemoveModeratorRole_ShouldReturnFalse	
TST32		BlockUserById_ShouldReturnTrue	
TST33		UnblockUserById_ShouldReturnFalse	
TST34		UpdateImage_ShouldReturnFalse	
TST35		UserProfile_ShouldReturnTrue	

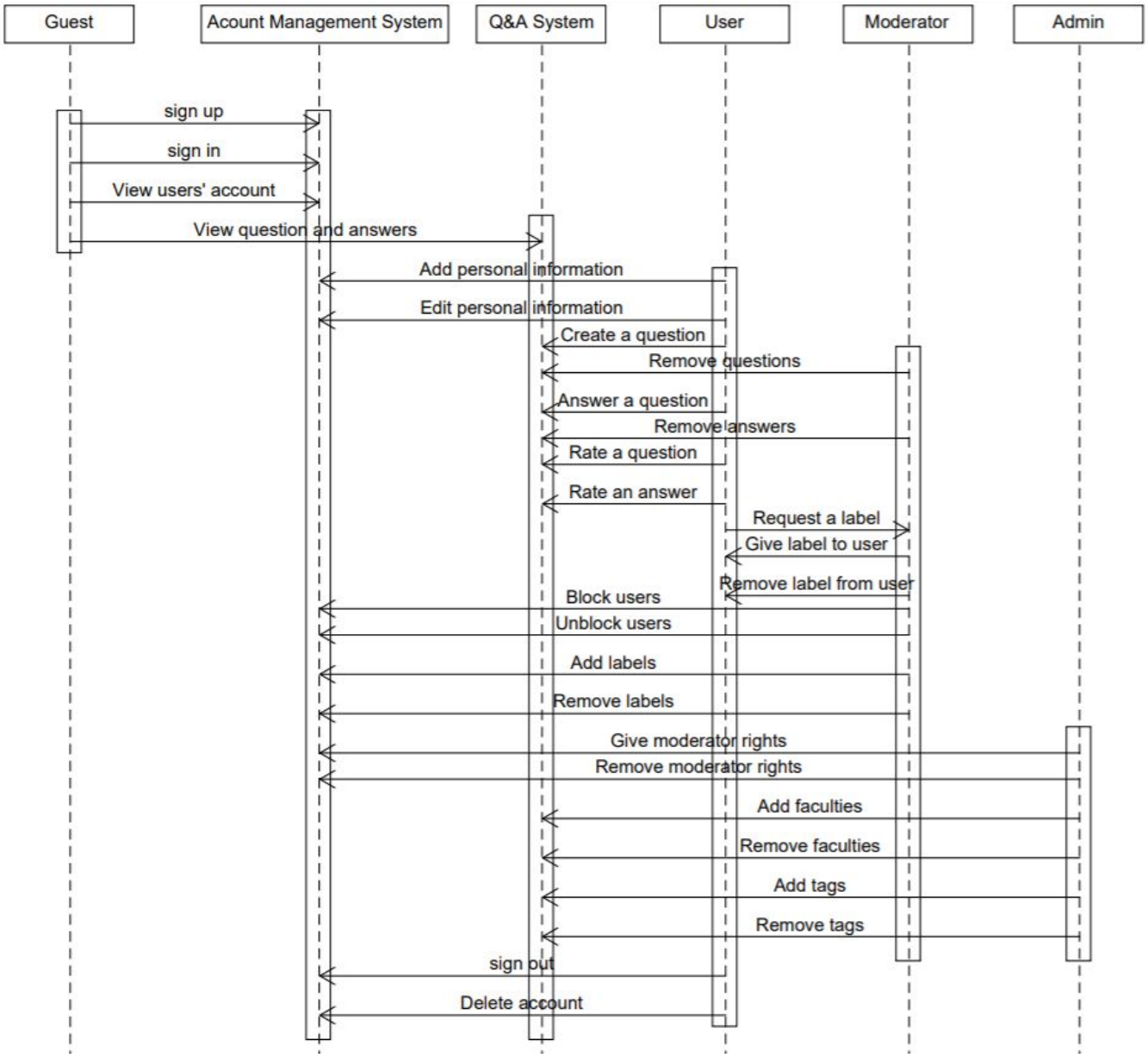
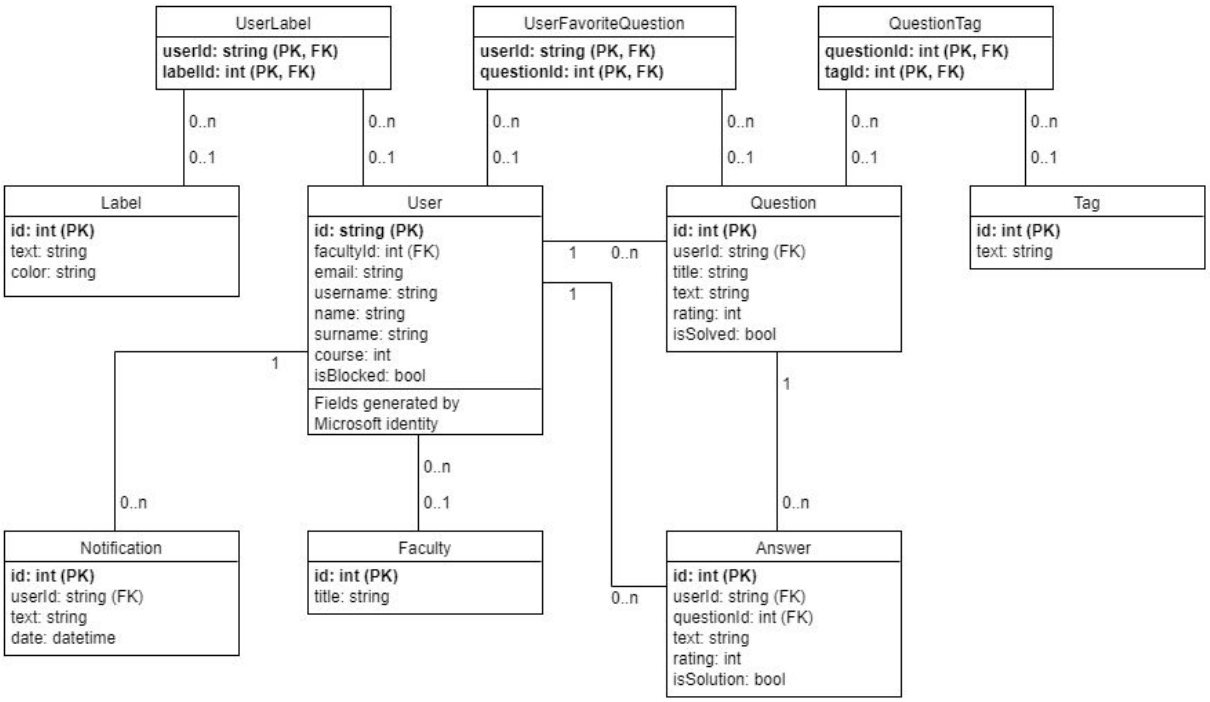
Use case diagrams




Moderator
Manage labels
Add labels
Remove labels
Give label to user
Remove label from user
«extends»
«extends»
«extends»
«extends»
Manage accounts
Unblock users
Block users
«extends»
«extends»
Remove answers
Remove questions


Admin
Manage rights
Give moderator rights
Remove moderator rights
«extends»
«extends»
Manage faculties
Add faculties
Remove faculties
«extends»
«extends»
Manage tags
Add tags
Remove tags
«extends»
«extends»

Sequence diagram



Class diagram