NKUNet

Iteration 2

Team: High Speed Rail

Iteration 2 Tasks

Implement Topics, Courses, Users

Implement Permissions

Implement Question and Answer management
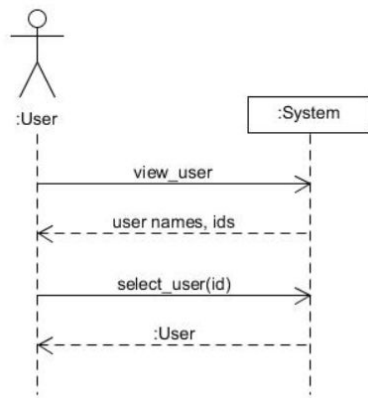
Implemented Use Cases

- UC 5:   View User
- UC 8:   Manage Question
- UC 9:   Manage Answer
- UC 10: Manage User
- UC 11: View Topic
- UC 12: Create Topic
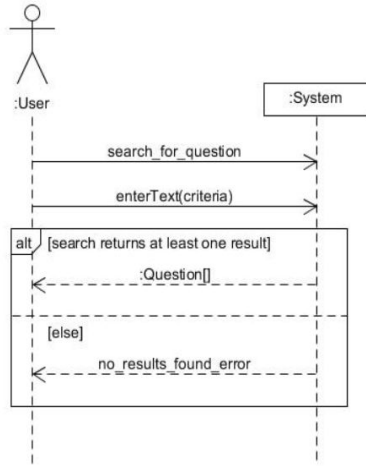- UC 13: View Course
- UC 14: Create Course

Domain Model

System Sequence Diagrams

UC5: View User

UC6: Search for Question
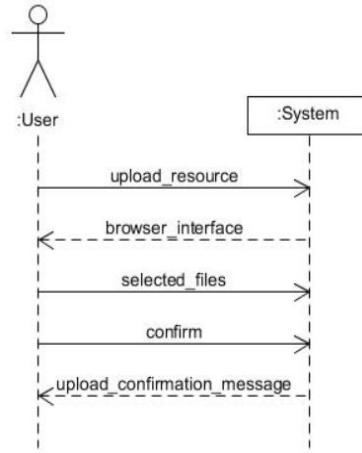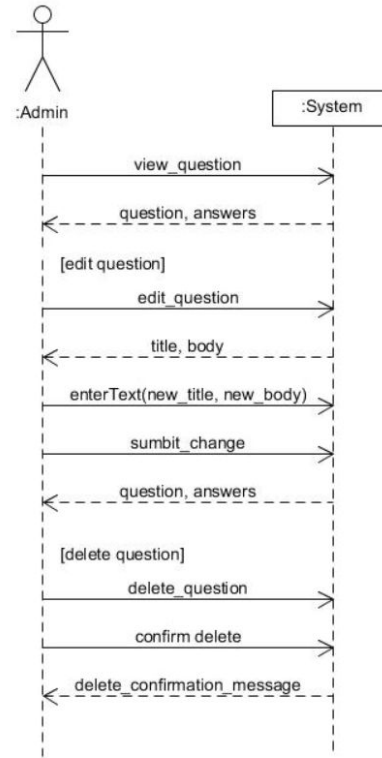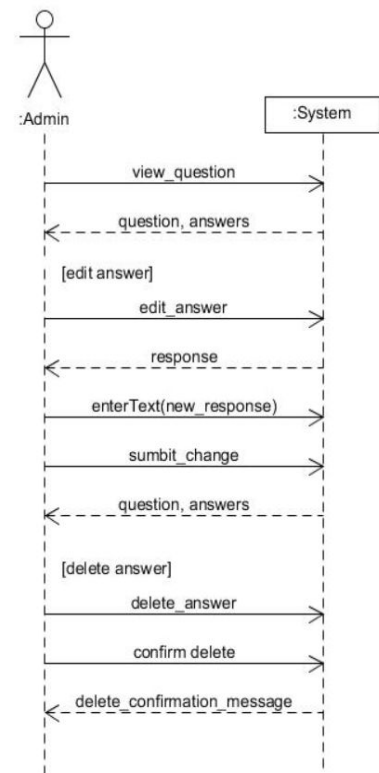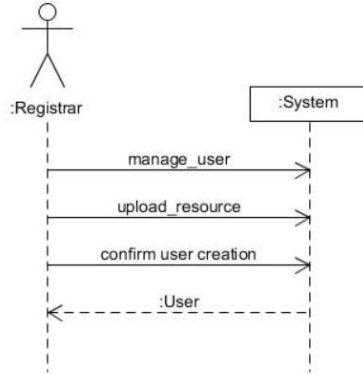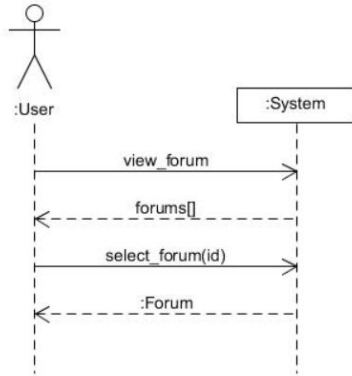
UC7: Upload Resource
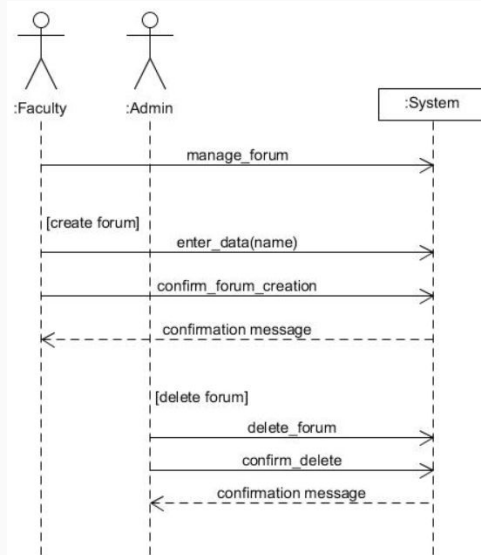
UC8: Manage Question

UC9: Manage Answer

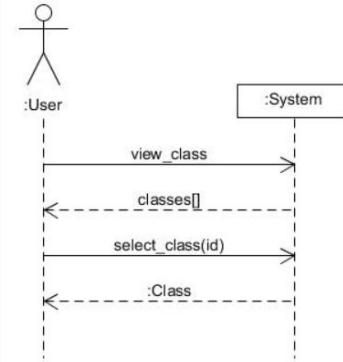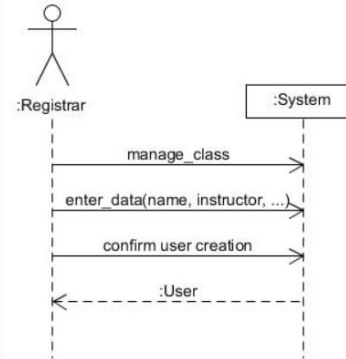# System Sequence Diagrams (continued)

UC10: Manage User

UC11: View Forum

UC12: Manage Forum

UC13: View Class
(Pretty much the same as View Forums.)

UC14: Manage Class

Class Design Diagram

CoursesController
+show(): void
+new(): void
+create(): void
+edit(): void
+update(): void
-course_params(): void
-set_course(): void

TopicsController
+show(): void
+new(): void
+create(): void
+destroy(): void
-topic_params(): void
-set_topic(): void

UsersController
+index(): void
+show(): void
+new(): void
+edit(): void
+create(): void
+update(): void
+destroy(): void
-user_params(): void
-set_user(): void

QuestionController
+index(): void
+show(): void
+new(): void
+edit(): void
+create(): void
+update(): void
+destroy(): void
-set_question(): void
-question_params(): void

AnswerController
+create(): void
+update(): void
+destroy(): void
-set_answer(): void
-answer_params(): void

RatingController
+upvote()
+downvote()

SessionsController
+new(): void
+create(): void
+destroy(): void

Courses
+id: int
+code: string
+title: string
+days: string
+start_time: time
+end_time: time

Topic
+id: int
+title: string

User
+email: string
+password: string
+permissions: Permission

New User Permission Methods
Create User Permission Methods
+recent_activity(): void
+remember(): void
+forget(): void
+permission?(): Permission
+authenticated?(): boolean
+upvote_count(): int
+overall_rating(): int
+downvote_count(): int

Question
+id: int
+title: string
+content: string
created_at: Timestamp
+updated_at: Timestamp

+accessors & mutators

Answer
+id: int
+question_id: int
+content: string
+updated_at: Timestamp
+created_at: Timestamp
+ field: type

+accessors & mutators

Rating
+id: int
+answer_id: int
+is_liked: boolean
+created_at: Timestamp
+updated_at: Timestamp

+accessors & mutators

ActiveRecord::Base

ApplicationRecord