

CSE 360  
Individual Homework 2  
Karson Shin

## Individual Homework 2

### 1. A subset of the Student User Stories

#### Questions:

As a student, I can create a new question with valid text (not empty, minimum length 5) so it is stored correctly. (Positive Create)

As a student, if I attempt to create a question with empty or too short text, the system rejects it with a helpful error message. (Negative Create / Validation)

As a student, I can read an existing question (ID, author, content) so I can see its details. (Read)

As a student, I can update my question with new valid content to clarify or correct it. (Update)

As a student, if I try to update a non-existent question, the system shows an error message. (Negative Update)

As a student, I can delete my own question so it no longer appears in the system. (Delete)

As a student, if I try to delete a non-existent question, the system shows an error message. (Negative Delete)

As a student, I can list all questions to see what I or others have asked. (List All / Positive)

As a student, if no questions exist or a search returns nothing, the system shows an empty list gracefully. (List All / Negative)

As a student, I can search questions by author to filter results. (Search)

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### **Answers:**

As a student, I can create a new answer linked to an existing question with valid text (minimum length 2). (Positive Create)

As a student, if I attempt to create an answer with invalid text or for a non-existent question, the system rejects it with an error. (Negative Create / Validation)

As a student, I can read an answer (ID, question ID, author, content) to see responses. (Read)

As a student, I can update my answer with new valid content. (Update)

As a student, if I try to update a non-existent answer, the system shows an error message. (Negative Update)

As a student, I can delete my answer so it no longer appears. (Delete)

As a student, if I try to delete a non-existent answer, the system shows an error message. (Negative Delete)

As a student, I can list all answers to see all responses. (List All / Positive)

As a student, I can list all answers for a specific question. (Search by Question ID)

As a student, if a question has no answers, the system shows an empty list gracefully. (List / Negative)

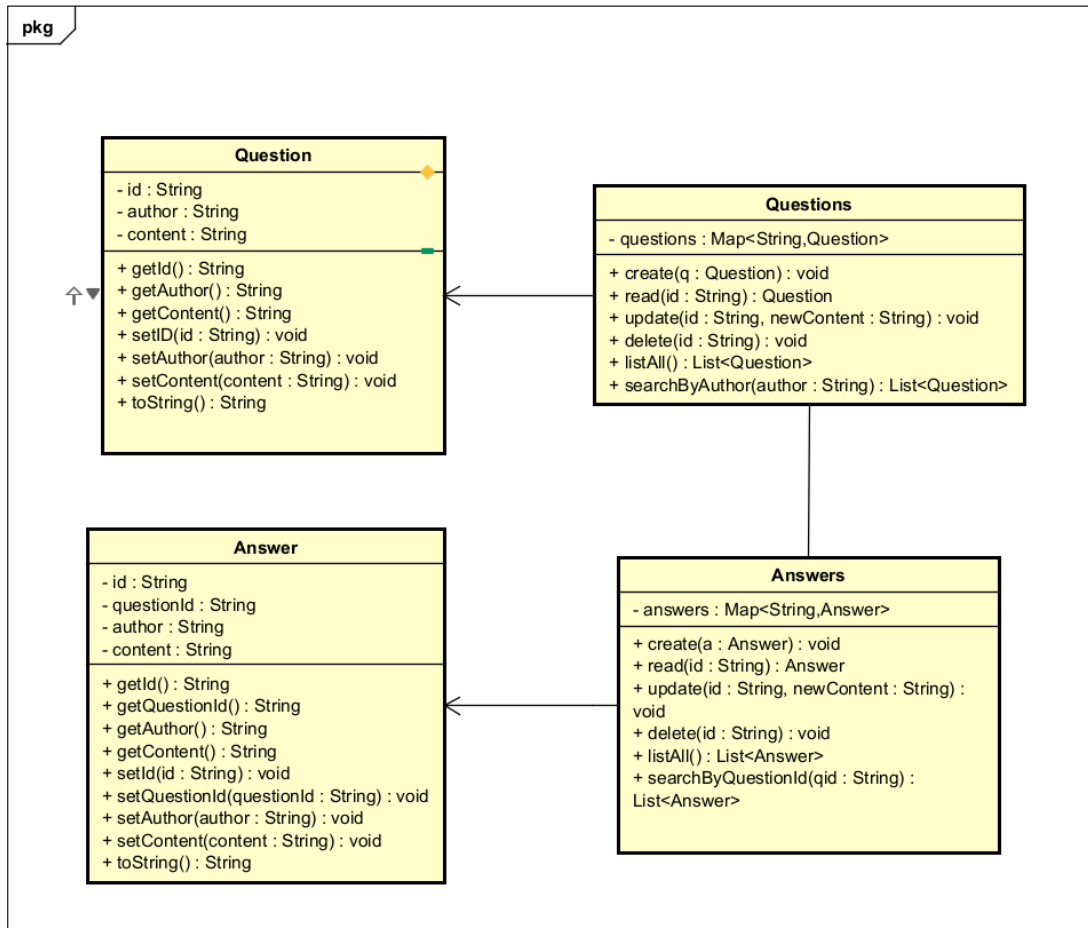
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### 2. A list of Test Cases

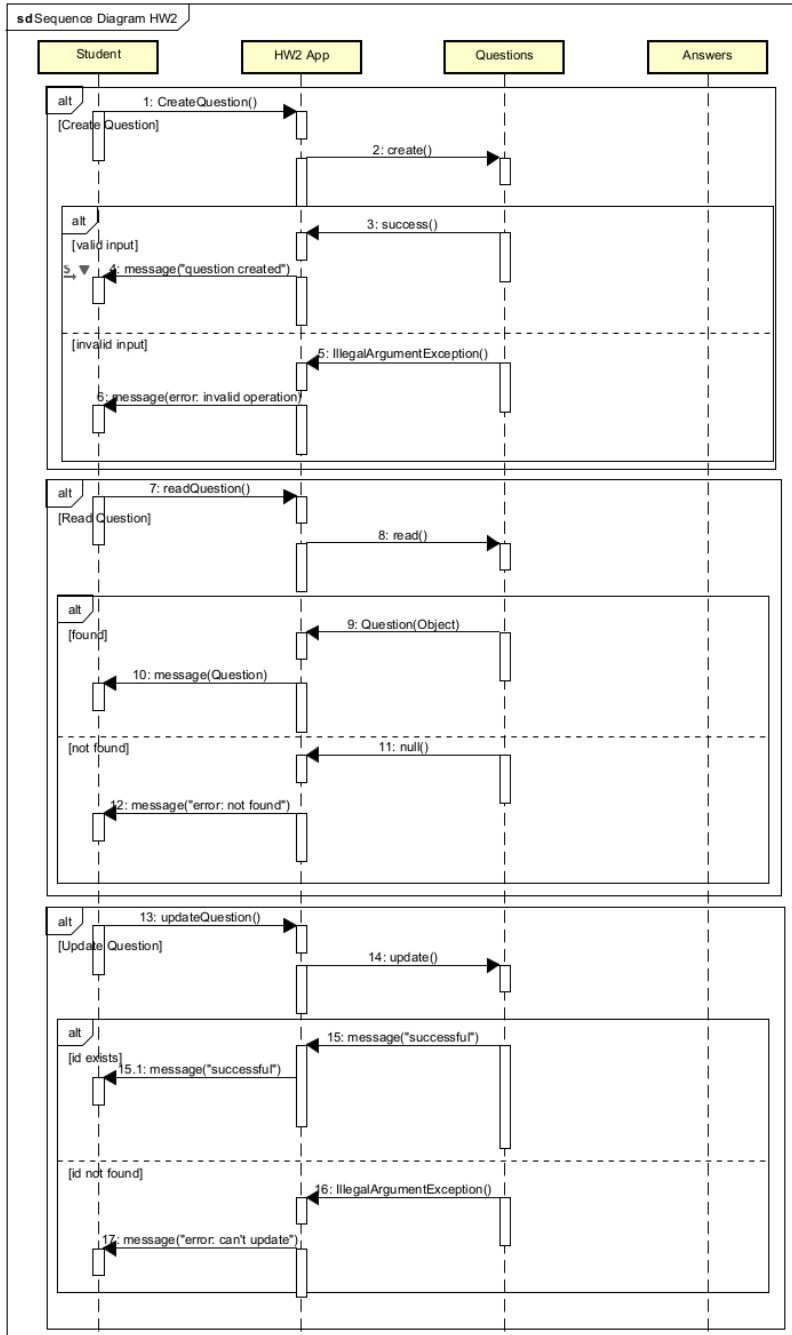
ID	Type	Action	Input	Expected Result	Outcome
tc1	Question	Create	Valid ID, Author, Content	Question object created	Positive
tc2	Question	Create	Empty ID	IllegalArgumentException	Negative
tc3	Question	Create	Invalid Author	IllegalArgumentException	Negative
tc4	Question	Create	Content < 5 chars	IllegalArgumentException	Negative
tc5	Question	Read	Existing ID	Returns question object	Positive
tc6	Question	Read	Non-existent ID	Returns null	Negative
tc7	Question	Update	Valid ID, Valid Content	Content updated	Positive
tc8	Question	Update	Non-existent ID	IllegalArgumentException	Negative
tc9	Question	Delete	Existing ID	Removed from map	Positive
tc10	Question	Delete	Non-existent ID	IllegalArgumentException	Negative
tc11	Questions	List All	Map has questions	Returns list of all questions	Positive
tc12	Questions	List All	Map empty	Returns empty list	Negative
tc13	Questions	Search by Author	Author exists	Returns matching questions	Positive
tc14	Questions	Search by Author	Author not found	Returns empty list	Negative
tc15	Answer	Create	Valid ID, QuestionID, Author, Content	Answer object created	Positive
tc16	Answer	Create	Empty ID	IllegalArgumentException	Negative
tc17	Answer	Create	Content < 2 chars	IllegalArgumentException	Negative
tc18	Answer	Create	Empty QuestionID	IllegalArgumentException	Negative
tc19	Answer	Read	Existing ID	Returns answer object	Positive
tc20	Answer	Read	Non-existent ID	Returns null	Negative
tc21	Answer	Update	Valid ID, Valid Content	Content updated	Positive
tc22	Answer	Update	Non-existent ID	IllegalArgumentException	Negative
tc23	Answer	Delete	Existing ID	Removed from map	Positive
tc24	Answer	Delete	Non-existent ID	IllegalArgumentException	Negative
tc25	Answers	List All	Map has answers	Returns list of all answers	Positive
tc26	Answers	List All	Map empty	Returns empty list	Negative
tc27	Answers	Search by QuestionID	Question has answers	Returns list	Positive
tc28	Answers	Search by QuestionID	Question has no answers	Returns empty list	Negative

### 3. Create and Document HW2

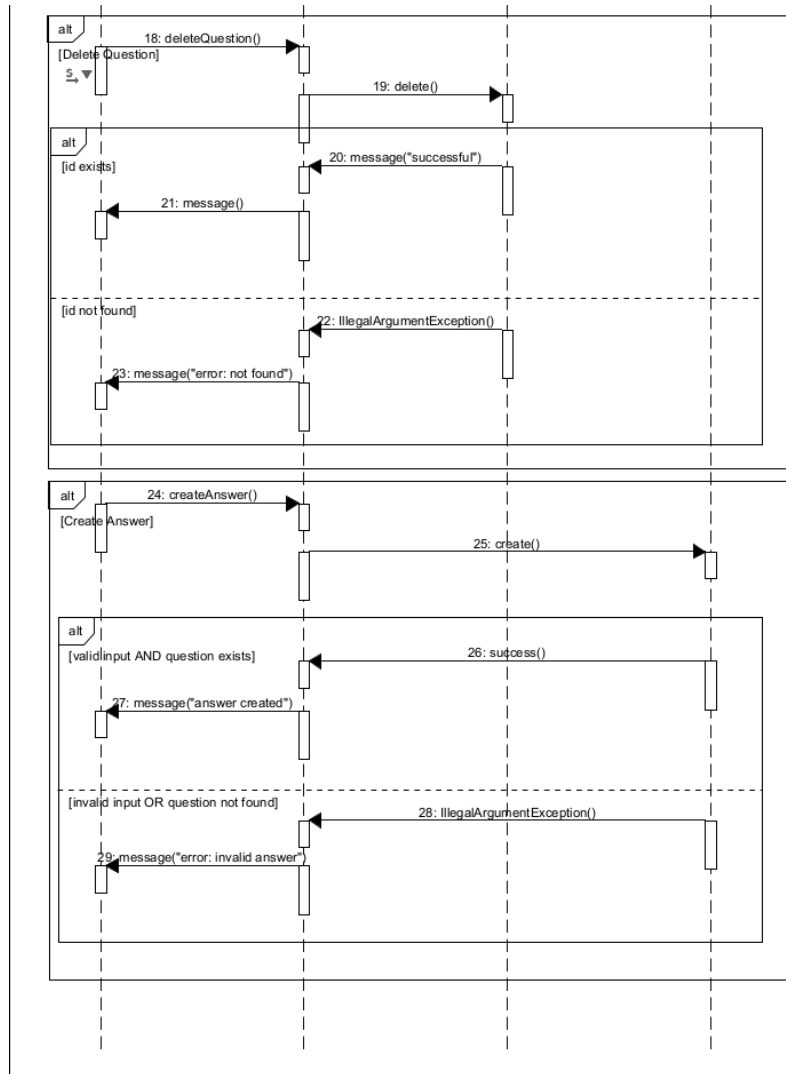
#### 3.1. UML Class and Sequence Diagrams



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### 3.2. Information for Grader to access the GitHub, the Source Code, and ReadMe

<https://github.com/kshin26/HW2>

Instructions to run, readme, source code in repository.

Clone the repository, Compile, Run in bash

To clone:

```
git clone https://github.com/kshin26/HW2.git
```

After cloned, run:

```
cd HW2/UserNameRecognizerConsoleTestbed
```

```
javac -d bin src/usernameRecognizerTestbed/*.java src/HW2/*.java
```

```
java -cp bin HW2.HW2
```



## 4. HW2 Screencast

### 4.1. Information for Grader to access the GitHub, the Screencast, and ReadMe

<https://github.com/kshin26/HW2>

Located under folder "Screencasts"