Use Cases

1.

**Use Case Name:** BrowseQuestions

**Participating Actors:** User

**Goal:** View question titles from the main page in the list from along with the number of answers they have

**Trigger:** User navigates to the main page of the app

**Preconditions:** User knows how to open the app and how to go to the main page from other activities

**Postconditions:** On success display questions with number of answers

**Basic Flow:** 1. System displays a list of questions with the number of answers it has for browsing

**Exceptions:  
User Stories:** 1, 14

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 1 (As a user, I want browse questions.)

User Story 14(As a user, I want to see how many answers a question has received)

**Open Issues:**

2.

**Use Case Name:** ViewQuestionsAndAnswers

**Participating Actors:** User

**Goal:** View question and answers related to the question

**Trigger:** User clicks on the question he/she wish to view

**Preconditions:** User knows how to open the app and how to go to the main page from other activities

**Postconditions:** On success display Q&A view of the question selected

**Basic Flow:** 1. System displays a list of Questions asked by users for browsing.

2. User selects a question

3. System brought up a new view displaying only the question selected and answers to the question in chronological order

**Exceptions:**

3. There are no answers to the question selected

3.1 System displays “No answers for this question yet” in the answer section

**User Stories:** 2  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 2 (As a user, I want to view a question and its answers.)

User Story 22(As a user, by default, I should see the most fresh comments)

**Open Issues:**

### 3.

**Use Case Name:** ViewReplies

**Participating Actors:** User

**Goal:** View replies to a question or an answer.

**Trigger:** User long clicks on a question or answer.

**Preconditions:** User knows which question or answer they want to view the replies to.

**Postconditions:** System displays the list of replies to the question/answer that the user long clicked on.

**Basic Flow:** 1. System displays the list of replies to the corresponding question/answer indicated.

**Exceptions:** 1. If no replies, display “No Replies” message.

**User Stories:** 3

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 3 (As a user, I want to view the replies to a question or answer)

**Open Issues:**

### 4.

**Use Case Name:** AskQuestion

**Participating Actors:** Author, Sysadmin

**Goal:** Author adds a question to the list.

**Trigger:** Author clicks the AskAQuestion button

**Preconditions:** Author knows the question they want to ask & (optional) the photo they want to attach.

**Postconditions:** On success, the question is added & success message appears.

**Basic Flow:** 1. System prompts Author to enter a question & optionally add a photo.  
 2. Author submits his/her question & (optional) attaches a photo.

3. System displays the question & photo and wait for confirmation   
 4. Author submits the question  
 5. System returns to the previous/ with the recently added question at the top of the list.

**Exceptions:**  
 4. Question entered is whitespace characters only.  
 3.1 System prompts author to re-enter a question via a toast message  
 5. Not connected to the network.  
 4.1 System stores the question locally.  
 4.2 System pushes to the network the next time it is connected to the network.

**User Stories:** 4  
**Qualities:**

**Constraints:**

**Includes:** AddPhotoFromGallery (Use Case 7)

**Extends:**

**Related Artifacts:**

**Notes:**User Story 4 (As an author, I want to make questions)User Story 7 (As an author, I want to attach a picture to my questions or my answers)

**Open Issues:**

### 5.

**Use Case Name:** AddAnswer

**Participating Actors:** Author, Sysadmin

**Goal:** Author adds an answer to a question.

**Trigger:** Author clicks the AddAnAnswer button.

**Preconditions:** Author knows the answer they want to submit and (optional) the photo they want to attach.

**Postconditions:** On success, the answer is added to the question & a success message appears.

**Basic Flow:** 1. System prompts Author to enter an answer & optionally add a photo.  
 2. Author submits his/her answer & (optional) attaches a photo.

3. System displays the answer & photo and wait for confirmation  
 4. User confirms their Answer.  
 5. System returns to the previous/Q&A screen with the recently added answer at the top of the list of answers.

**Exceptions:**  
 4. Answer entered is whitespace characters only.  
 3.1 System prompts author to reenter an answer via a toast message  
 5. Not connected to the network.  
 4.1 System stores the question locally.  
 4.2 System pushes to the network the next time it is connected to the network.

**User Stories:** 5  
**Qualities:**

**Constraints:**

**Includes:** AddPhotoFromGallery (Use Case 7)

**Extends:**

**Related Artifacts:**

**Notes:**User Story 5 (As an author, I want to answer questions by making an answer)  
User Story 7 (As an author, I want to attach a picture to my questions or my answers)

**Open Issues:**

### 6.

**Use Case Name:** AddReply

**Participating Actors:** Author

**Goal:** Author adds a reply to a question or answer.

**Trigger:** Author clicks on AddReply button.

**Preconditions:** Author knows the reply/comment they want to submit and to which item they want to reply to (question or answer).

**Postconditions:** On success, the reply is added to the question or answer.

**Basic Flow:** 1. System prompts author to enter their reply.  
 2. Author submits his/her reply.

3. System displays the reply and wait for confirmation  
 4. Author confirms the reply.  
 5. System returns to the previous screen with the most recently added reply at the top of the list of replies for that question or answer.

**Exceptions:** 5. Not connected to the network.  
 4.1 System stores the question locally.  
 4.2 System pushes to the network the next time it is connected to the network.

**User Stories:** 6

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:** ViewReplies (Use Case 3)

**Related Artifacts:**

**Notes:**User Story 6 (As an author, I want to reply to questions and answers to clarify things)

**Open Issues:**

### 7.

**Use Case Name:** AddPhotoFromCamera

**Participating Actors:** Author, Sysadmin

**Goal:** Attach a photo to a question or answer

**Trigger:** Author clicks on the AddPhotoFromCamera button.

**Preconditions:** Author knows how to take a picture.

**Postconditions:** On success, photo is attached to the question or answer.

**Basic Flow:** 1. System prompts author to take a photo.  
 2. Author takes a photo.  
 3. Sysadmin verifies that the photo is not larger than 64kb.  
 4. System returns to previous screen with preview of the image.

**Exceptions:** 3. Photo is larger than 64kb.  
 3.1 System displays “image is too large” message & prompts author to select another photo.

**User Stories:** 7

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:** AskAQuestion (Use Case 1), AddAnAnswer (Use Case 2), AddPhotoFromGallery(Use Case 7)

**Notes:**  
User Story 7 (As an author, I want to attach a picture to my questions or my answers)

**Open Issues:**

### 8.

**Use Case Name:** AddPhotoFromGallery

**Participating Actors:** Author, Sysadmin

**Goal:** Attach a photo to a question or answer

**Trigger:** Author clicks on the AddPhotoFromGallery button.

**Preconditions:** Author knows how to take a picture.

**Postconditions:** On success, photo is attached to the question or answer.

**Basic Flow:** 1. System prompts author to select a photo.  
 2. Author selects a photo.  
 3. Sysadmin verifies that the photo is not larger than 64kb.  
 4. System returns to previous screen with preview of the image.

**Exceptions:** 3. Photo is larger than 64kb.  
 3.1 System displays “image is too large” message & prompts author to select another photo.

**User Stories:** 7

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:** AskAQuestion (Use Case 1), AddAnAnswer (Use Case 2), AddPhotoFromCamera (Use Case 6)

**Notes:**  
User Story 7 (As an author, I want to attach a picture to my questions or my answers)  
User Story 8 (As a sysadmin, I do not want the pictures to be large (>64kb))

**Open Issues:**

9.

**Use Case Name:** PhotoSizeLimit

**Participating Actors:** Sysadmin

**Goal:** Limits the attached photo size to be smaller than 64 kb

**Trigger:** Author/User attached a photo greater than 64kb

**Preconditions:** Author/User have photo in their gallery or knows how to take a photo

**Postconditions:** On success, photo size greater than 64kb is rejected.

**Basic Flow:** 1. System prompts author to select a photo.  
 2. Author selects a photo size greater than 64kb.  
 3. Sysadmin verifies that the photo is not larger than 64kb.  
 4. System displays “image is too large” message & prompts author to select another photo.

**Exceptions:** 3. Photo is smaller than 64kb.  
 3.1 System will not complain

**User Stories:** 8

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:** AskAQuestion (Use Case 1), AddAnAnswer (Use Case 2), AddPhotoFromCamera (Use Case 6)

**Notes:**  
User Story 8 (As a sysadmin, I do not want the pictures to be large (>64kb))

**Open Issues:**

10.

**Use Case Name: SortQuestionBy**  
**Participating Actors:** User  
**Goal:** Display a sorted list of questions.  
**Trigger**: User clicks on SortBy menu item.  
**Preconditions**: User knows how they want the questions to be sorted by (date - most recent / least recent, picture - with / without)  
**Postconditions**: On success, display the sorted list of questions.  
**Basic Flow:**

1. System prompts user to select method to sort by.
2. User selects the method they would like.
3. System displays the list of questions in sorted order in the method chosen.

**Exceptions**:  
**Qualities**:  
**Constraints**:  
**Includes**:  
**Extends**:  
**Related** **Artifacts:**  
**Notes**:  
User Story 9 (As a user, I want to sort questions by if they have pictures)  
User Story 10 (As a user, I want to sort questions by date or some scoring system)  
**Open Issues**:

### 11.

**Use Case Name: Upvote**  
**Participating Actors:** User  
**Goal:** Selected Question/Answer upvoted  
**Trigger**: User clicks on an upvote button

**Preconditions**:at least one question and/or answer need to exist   
**Postconditions**: On success, the number of upvote beside a question/answer needs to increment by one  
**Basic Flow:**

1. User selects the question/answer they want to upvote
2. System displays the incremented upvoted number beside the question/answer

**Exceptions**:

1. User is the author of the question/answer

1.1 A message will display notifying the user they cannot upvot their own question/answer  
 1. User already upvoted the same question/answer

1.1 the upvoted number will not increment.

1.2 A message will display notifying the user they have already upvoted the question/answer

**Qualities**:  
**Constraints**:  
**Includes**:  
**Extends**:  
**Related** **Artifacts:**  
**Notes**:  
User Story 11(As a user, I want to upvote the question of other users)  
User Story 12 (As a user, I want to upvote the answers of other users)  
**Open Issues**:

12.

**Use Case Name: SeeMostUpvoted**  
**Participating Actors:** User  
**Goal:** Display the most upvoted question and answer  
**Trigger**: User browses a question   
**Preconditions**: there are at least one question/answer with upvote  
**Postconditions**: On success, display the most upvoted question/answer

**Basic Flow:**

1. User browses question
2. System displays the most upvoted question on the top of the question list
3. User browses the answers to a question
4. System displays the most upvoted answer at the top of the answer list

**Exceptions**:

1. there are no questions

1.1 System displays “no questions currently” message

2. there are no upvoted questions

2 .1 System displays questions without a most upvoted question

3. there are no answers to a question

3.1 System displays “no answers currently” message

4. There are no upvoted answers

4.1 systems displays answers in chronological order.  
**Qualities**:  
**Constraints**:  
**Includes**:  
**Extends**:  
**Related** **Artifacts:**  
**Notes**:  
User Story 13 As a user, I want to see how many answers a question has received)  
  
**Open Issues**:

**13.**

**Use Case Name:** Search

**Participating Actors:** User

**Goal:** Return search results for a given query

**Trigger:** User chooses the search option

**Preconditions:** User knows what they want to search for

**Postconditions:** On success, system displays results for the given search query.

**Basic Flow:** 1. System prompts user to enter their query.  
 2. User enters a query.  
 3. System displays a list of question or answers relating to the given query.

**Exceptions:** 3. If there are no matching results.  
 3.1 System displays a “no matches” message  
 3.2 System returns to step 1

**User Stories:** 15

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 15 (As a user, I want to search for questions or answers)

**Open Issues:**

**14.**

**Use Case Name:** QuestionsAsked

**Participating Actors:** Author

**Goal:** Device will remember the questions author asked

**Trigger:** Author submits a question

**Preconditions:** Author knows how to submit a question

**Postconditions:** On success, system saves the questions asked by author on to the device author is currently using

**Basic Flow:** 1. Author submits a question.  
 2. System save the question onto the device the author is currently using.

3. Author can view their questions asked under main menu AskedQuestions

**Exceptions:**

**User Stories:** 16

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 16 (As an author, I want my device to remember which questions I asked)

**Open Issues:**

**15.**

**Use Case Name:** ReadingList

**Participating Actors:** User

**Goal:** Indicated questions and its answers will be locally cached and accessed without internet

**Trigger:** User clicks the AddToReadingList button

**Preconditions:** questions must exist and user device must have enough memory

**Postconditions:** On success, system saves the questions selected by user to the device and it can be accessed offline

**Basic Flow:** 1. User selects a question they want to add to reading list  
 2. System save the question and its answers onto the device the user is currently using.

3. User can view their reading list under main menu ReadingList.

**Exceptions:**

**User Stories:** 17

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 17 (As a user, I want questions and answers that I read or questions and answers that I've indicated I want to read, to be locally cached so I can read them when I am not on the internet.)

**Open Issues:**

**16.**

**Use Case Name:** Favorites

**Participating Actors:** User

**Goal:** Save questions as favorites and these questions and their replies can be accessed reguardless of network activity

**Trigger:** User clicks AddFavorite button

**Preconditions:** At least one question must exist and user device must have enough memory

**Postconditions:** On success, system saves the questions and replies selected by user to the device and it can be accessed regardless of network activity

**Basic Flow:** 1. User selects a question they want to add to their favorite  
 2. System save the question and its answers onto the device the user is currently using.

3. User can view their favorite list under main menu.

**Exceptions:**

**User Stories:** 18, 19

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 18 (As a user, I want to explicitly save some questions as favorites.)

User Story 19 (As a user, my favorites and their replies should always be available to me regardless of network connectivity.)

**Open Issues:**

**17.**

**Use Case Name:** PushAnswers

**Participating Actors:** Author

**Goal:** Push replies, questions and answer wrote by the author online once the author gets internet connectivity

**Trigger:** Once there is network connection

**Preconditions:** author has replies, questions and answers written without internet connection

**Postconditions:** On success, system saves the questions and replies selected by user to the device and it can be accessed regardless of network activity

**Basic Flow:** 1. Author writes replies, answer, and/or questions without internet connection and press send

2. system displays “No network connection” message

3. Author finds network connection

4. system pushes replies, questions and answers online

**Exceptions:**

**User Stories:** 20, 21

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 20 (As an author, I want to author replies, questions and answers offline)

User Story 21 (As an author, I want to push my replies, questions and answers online once I get connectivity)

**Open Issues:**

**18.**

**Use Case Name:** SetUserName

**Participating Actors:** Author

**Goal:** Set a username that will be displayed when author post a question, reply or answer

**Trigger:** Author types in his/her username andSetUserName button is pressed

**Preconditions:**

**Postconditions:** On success, system will set the author’s username as the one typed in

**Basic Flow:** 1. Author types in his/her username

2. system displays his/her user name and wait for confirmation

3. Author confirms his/her username

4. system set the username and will display it after every post made by this user

**Exceptions:**

1. No username is typed in or only whitespace is typed in

1.1 System set the Author as “Anonymous”

**User Stories:** 23

Additional  
**Qualities:**

**Constraints:**

**Includes:**

**Extends:**

**Related Artifacts:**

**Notes:**User Story 23 (As an author, I set my username)

**Open Issues:**