1. **Question and Answer Functionality:**
   1. users can post questions/answers/comments (we will be referring to them as posts from now on). A post can contain text, images (at most 10), links and code.
   2. images inserted in posts will have a maximum resolution of 4K
   3. a post cannot contain more than 8000 characters
   4. users can reply with:
      1. answers and comments to questions
      2. comments to answers
      3. comments to comments
   5. users can choose to hide the replies of answers/questions/comments
   6. the window of a question (the one which contains all of its replies) will be infinitely scrollable
   7. questions and answers have a number of upvotes and a number of downvotes (the default is 0 for both of them)
   8. users can upvote and downvote answers and questions
   9. questions and answers will have a score, this is how it is computed: the number of upvotes minus the number of downvotes
   10. answers/questions have their respective score displayed next to them
   11. questions will have a title (no longer than 100 characters)
   12. tags:
       1. tags are properties of questions
       2. a question may have at most 10 tags
       3. tags are user defined
       4. the users can create tags when posting a question
   13. there will be multiple categories (categories are not tags) of questions: computer science, natural sciences, mathematics, sports, visual arts, music, literature, philosophy, history and off-topic. The off-topic category encompasses all questions which are not suitable to any of the the other categories
   14. each question will be posted in exactly one category
   15. If a post's height is larger than 40% of the window's (we are referring to the application window) height , then only part of it will be displayed initially (when the page is loaded).Users will have the option to see the full content of any post if they choose to do via a read more button
   16. when someone replies to a post, their answer/comment will be nested. This means that the reply will be aligned slightly to the right compared to the post to which the user replied.
   17. posts will be nested at most 10 times. Once this limit is reached, replies that attempt to exceed this limit will not be allowed
   18. answers with a low score (the exact number is configurable by each user) will be hidden
   19. users have the option to view hidden answers
   20. users can edit their posts
   21. edited posts will be marked as “edited at @timeOfEdit”
   22. users can sort questions by date or by number of answers or by score
   23. users can filter questions by category
   24. users can filter questions by answered/unanswered
   25. answers, questions and comments are deletable by the user who posted them or by the moderators of the question's category
   26. users can search questions by title or by their tags
   27. answers should be displayed ascending by score
   28. answers will have a visible 'answer' label (ui element) and comments will have a 'comment' label so that users can distinguish between the two
   29. questions have different visibility types :
       1. public questions can be seen by anyone
       2. friends only questions can only be seen by the user who posted them and by their friends
   30. users who post a question decide it's visibility type before posting it
   31. deleted questions, answers and comments will contain only the text "deleted", but their replies will remain
2. **Linked questions**:
   1. if a user answers to a question (question A) and the answer contains a link to another question (question B), than question B will be considered a linked question of question A. This does not go both ways
   2. when viewing a question, users will also see a list of its linked questions (infinitely scrollable)
   3. the linked questions from the list will display only their titles and their scores
   4. the linked questions will be sorted descending by their score
3. **Cool Text Box:** 
   1. they appear when a user wants to write a post
   2. users can type inside text boxes
   3. text boxes support markdown
   4. text boxes have a utility bar on the top with the following functionalities:
      1. undo/redo buttons (the undo and redo operations will also be available via keyboard shortcuts: ctrl+z for undo and ctrl+y for redo)
      2. button for inserting emojis from a predefined list
      3. button for marking a section of text as code in a certain language, this will enable syntax highlighting (only available for C++, Java and Python) and will put it inside a box (see the GUI design for more information)
      4. buttons which enable markdown functionalities (in case the user doesn't know how to use markdown):
         1. controlling text alignment (centered/left/right)
         2. creating a heading
         3. marking text as bold/italic
         4. inserting hyperlinks
         5. inserting images
         6. creating bulleted or numbered lists

1. **Users:**
   1. there will be a miniprofile accessible from this module. This is not the main profile of the user, it is just a profile which contains information relevant to this module
   2. users can save answer and question
   3. the miniprofile:
      1. from each user's mini profile you have access to all of their past questions and answers
      2. clicking on a user's profile picture will open the mini profile
      3. the main profile can be accessed from the mini profile
      4. there will be a private part of the mini profile (only visible to the user to whom the mini profile belongs) displaying the saved posts of the user
      5. the total score a user has (the sum of the scores of their answers and questions) is displayed in the mini profile
      6. badges (see point 7) are displayed on each user’s mini profile
   4. users will be notified (via pop-ups) when someone replies to something they posted in the forum
   5. each user will have access to a list of their notifications. Notifications from the lists have a different based on whether they have been seen or not by the user (by "seen" we mean actually accessed/clicked on)
2. **Moderators**:
   1. moderators may moderate one or more categories
   2. moderators are appointed by the owners of the application through the database. Appointing moderators isn't a functionality of the application
   3. moderators are users (no special login required) with the following extra perks:
      1. they are able to delete answers and questions for their specific categories.
      2. they have access to statistics for their categories (how many questions have been asked in the last week/month/year/total, the total percentage of questions answered)
3. **Badges**:
   1. A badge is an achievement that is account-bound and is displayed in the mini-profile through a graphical element in it’s own separate section(Badges section)
   2. we will have the following badges(subject to changes later on):
      1. badge for answering questions in a specific cy
      2. badge for posting 50 questions
      3. badge for answering questions in at least 5 different categories
      4. badge for first question posted
      5. badge for first answer posted
      6. badges are displayed next to the usernames
      7. badge for 10 answers with a score of at least 30 each
      8. badge for answering a certain number of questions for each category