1.Functional Requirements

1.1. User Requirements

1.1.1 Authentication
       1.1.1.1 User shall be able to signup by an unregistered educational mail
       1.1.1.2 User shall be able to enter a valid password
       1.1.1.3 Confirm password
       1.1.1.4 Agree the privacy terms and conditions
1.1.2 Profile
       1.1.2.1 User have profile pages
       1.1.2.2 User shall be able to see other profile pages that are visible
       1.1.2.3 User shall be able to see the post of his on the profile
       1.1.2.4 User shall be able to delete the post that he posted already.

1.1.3 User Interactions
       1.1.3.1 User - User interaction
              1.1.3.1.1 User should be able to send direct messages to other users that are
available
       1.1.3.2 User-Post interaction
              1.1.3.2.1 User can comment on the post
              1.1.3.2.2 User can upvote-downvote the post
              1.1.3.2.3 User can create post
              1.1.3.2.4 User can delete the post through his profile
              1.1.3.2.5 User can update the content of post
              1.1.3.2.6 User can reply to the comments of the post
              1.1.3.2.7 User can select the category of the post (categorization of the post,
Forum is not one of the categorization that is provided, users post on forum if their need is
not one of the category)
              1.1.3.2.8 User can report the posts
              1.1.3.2.9 Users can select the interaction environment as cross-universities or
              private to the university
              1.1.3.2.10 User can reference to a user or a post

       1.1.3.3 User Searchbar interaction
              1.1.3.3.1 User can search post by the users, date, category
              1.1.3.3.2 User can see the search history of his
              1.1.3.3.3 Search operation is supported by an elastic search

1.2 System Requirements

1.2.1 Forum
       1.2.1.1 Posts are visible on forum
       1.2.1.2 Creations date is visible on forum
       1.2.1.3 Posts are sorted according to the recommendation logic

         1.2.1.4 Comments, votes are visible on the forum down below of the post

1.2.2 Recommendation
         1.2.2.1 Recommendation is mainly based on the post date
         1.2.2.2 Latest interaction of user should affect the recommendation

2. Non Functional Requirements

2.1 Security
         2.1.1 Sensitive user data should be encrypted using a hash algorithm (such as SHA-256)
         2.1.2 User notification in case of password change
         2.1.3 System should meet modern SSL requirements

2.2 Privacy (Terms and conditions)

2.3 Performance and reliability
         2.3.1 System should respond any request in 3 sec
         2.3.2 Max user number on the first phase is 10000
         2.3.3 Database backup on period of a time
         2.3.4 Improvement of performance by using technologies such as cache etc.