**FUNCTIONAL REQUIREMENTS**

**FR1.** **Create** activities based on the data entered by the user.

**FR2.** **Save** the activities entered by the user.

**FR3. Add** a new account. For this, the program requires user data, such as his name, username, password, birthdate, gender, height and weight to be entered. This will be done using a recursive method.

**FR4. Show** the motivational quote of the day.

**FR5. Show** recommendations with which the user’s health can be improved/maintained.

**FR6. Search** an account based on the username of the user to be found. This will be done using binary search method.

**FR7. Play** music while the user is using the application.

**FR8. Add** a reminder. For this, the user must specify the time (in minutes) and the text of the reminder.

**FR9. Show** the reminders that the user added after the time indicated by the user.

**FR10. Show** the general data of all users.

**FR11.** **Show** a clock if the user has a premium account.

**FR12. Search** an account based on the name of the user to be found. This will be done using binary search.

**FR13. Sort** accounts using selection sort. The criteria of sorting will be the username of the user.

**FR14. Sort** accounts using bubble sort. The criteria of sorting will be the name of the user.

**FR15.** **Sort** accounts using insertion sort. The criteria of sorting will be the height of the user.

**FR16. Sort** accounts using selection sort. The criteria of sorting will be the weight of the user.

**FR17. Sort** accounts using bubble sort. The criteria of sorting will be the height of the user.

**FR18. Sort** accounts using insertion sort. The criteria of sorting will be the username of the user.

**NON-FUNCTIONAL REQUIREMENTS**

**NFR1.** Serialize accounts information.

**NFR2.** Read the text file containing sanitary recommendations.

**NFR3.** Read the text file containing motivational quotes.

**NFR4.** Deserialize accounts information.

**NFR5.** Serialize activities information.

**NFR6.** Deserialize activities information.

**NFR7.** The clock that is displayed for premium users must keep running while the user uses the program without locking the program.

**NFR8.** The clock that is displayed for premium users must stop when the user indicates it or when the GUI for the premium users is closed.

**NFR9.** The music must keep playing while the user uses the program without locking the GUI.

**NFR10.** The motivational quote must be randomly selected from the quotes that are written on the text file.

**NFR11.** The health tip must be randomly selected from the ones that are written on the text file.