**Non-functional Reuierments**

Performance Constraints

Speed:  
1. **Throughput**: The system must be able to analyze and withstand a minimum of 100 concurrent users without failing or decreasing its efficiency.  
2. **Real-time:** The system will perform real tome analysis of the user’s recordings and will provide feedback during the coaching session.  
3. **Speed:** The system should handle every action the user making (registration, login, logout etc.) in a minimum of 5 seconds  
  
Reliability & Stability:  
1. **Fault Tolerance:** The system should recover gracefully from unexpected failures (no internet connection, dead battery etc.).  
2. **Data Integrity:** The system should handle the data in the most accurate way without damaging the recordings.  
3. **Error handling:** The system must provide informative error messages and logs to assist in trouble shooting and debugging (informative logs = happy developers)  
4. **Back-Up:** Once a day the system should perform data-base backup.  
  
Safety & Security:  
1. **Discrete:** The system should prevent the original user recording to be published or any other individual beside the recording’s user to hold the recording.  
2. **User authenticator:** The system should authenticate the user identity every time he is logged in or performing profile actions (change password, change email, etc.)  
3. **Encryption:** Sensitive information like user’s email, address etc. must be ancryped using SHA-512  
4. **Access Control:** Different user roles (e.g. administrators, regular users) should have distinct levels of access to system functionalities  
  
Portability:  
1. **Browser:** The system should be compatible with commonly used web browsers (Chrome, edge, safary, mozilla)  
2. **OS:** The system must be compatible with popular OS systems for both pc and cellphone devices (android, iOS and Microsoft)  
3. **Multilingual Support:** The system should support text in English and Hebrew, utilizing Unicode for character representation.

Usability:  
1. **Accessibility:** The system will adhere to accessibility standards to ensure usability for users with disabilities.  
2. **User Training:** The system must be easy to use, self-explanatory and to provide assistance to those who struggling with the user interface (provide detailed icons, etc)