CIS 3760 – Software Engineering
Instructor: Prof. S. Scott
Individual Accountability Report (IAR) Template

Note. Refer to the Project Manual for detailed instructions for IAR submissions.

Individual Accountability Report (IAR) Template
The following questions MUST be included and answered completely for each submitted IAR.

IAR must be submitted one of the following file formats: text or PDF.

Q1. Student Name: Muhammad Danish Saeed

Q2. Student ID: 1077675

Q3. Associated Team Deliverable: Sprint 2

Q4. Section#, Team #: 02, 2

Q5. What were the main technical or methodological concepts and/or skills that were required to complete this team deliverable? (bulleted list is preferred):

- The technical or methodological concepts that were required to the complete this deliverable are the following:
    - Android Studio
    - Discord (Communication tool)
    - Google Docs (sharable content/documentation platform)
    - GitLab
    - Firebase (cloud storage)
    - SCRUM

Q6. What was your existing level of experience with these topics/skills before your team began working on this deliverable? (1-2 sentences):

- The tools in this deliverable are not new except for Android Studio. The is learning required to know how activity, fragments or RecyclerView works. There are many great online tools. The ones that were used are android Studio's official Documentations, LinkedIn Learning, and YouTube. Everyone is not as experienced with Android Studio as Nick and I(me). I have conceptual knowledge and did not code in Android Studio in years to the point that I think it is completely new to me.

Q7. Comment on your individual academic, methodological, or technical learning during this deliverable, and what additional learning may be needed to understand or be more competent with these topics in the future?

- We did not perform well in sprint 0, which really motivated us to do our best in this sprint. Firebase storage is an entirely new tool required to be able to share content (in our case, being able to use voice recordings with other users over cloud storage). Not only sharing but also the ability to download any cloud recording shared with any user. This is an especially important and critical feature, mainly because it puts our application on a whole new level. Learning about firebase storage and its integration with the Android application is required. Fortunately, firebase and Android Studio are both Google's platforms and the integration of both together is fairly simple through the official Google documentation. A lot of research and testing went into uploading to and downloading from the cloud to make sure that everything works and is ready for the lab demo. A learning curve in terms of validation and security of firebase will be needed to make the application more robust for the next sprint.

Q8. What specific contributions did you make to this team deliverable? This should include technical or project management contributions.

- In this deliverable, I removed all the old support libraries (support.v4 and support.v7) and upgraded the version to android 28 which removed major UI bugs and the application overall in terms of speed and optimization

- I also created firebase storage and integrated it with Android Studio.

- I created the cloud upload where you can upload audio files directly to the cloud as a backup or share files. I was also able to complete the Cloud Download functionality as well, where a user inputs a link to the file and is able to download it and play the audio file within the application.

Q9. With whom did you collaborate for any of the above contributions (be specific)?

- I was the only one to collaborate on the above tasks. Mainly because everyone else had their own tasks assigned. With Nick giving feedback as to whether or not it can be improved more.

Q10. Comment on how well you managed your time over the time period allocated in the Course timetable to this team deliverable (i.e. the time between the prior team deliverable to this team deliverable).

- I think this deliverable by far went smooth, mainly because we didn't do well in sprint 0 and we wanted to redeem ourselves. The time we contributed was more to this sprint on daily basis and we wanted to accomplish and present the best features of our application. Everyone almost always showed up on time to the meetings and worked really hard to make sure they deliver results by the allocated time period of this sprint. Overall, this sprint was our best sprint, but it won't be our last.