

## **CIS 3760 – Software Engineering Individual Accountability Report (IAR)**

Q1. Student Name: Shawn Kaplan

Q2. Student ID: 0966499

Q3. Associated Team Deliverable: Sprint 1

Q4. Section#, Team #: Section 1, Team 1

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

- Android (Java and Kotlin)
- Flask (Python)
- Agile + Scrum

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

I already have ample Java experience from prior work and personal projects, including a small amount of Android app development. I also have lots of Kotlin experience, albeit none in an Android context. I have never used Flask and have only seen beginner Python tutorials in the past.

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?

In this deliverable, I learned how the Android application we are using works, as I read through the entire app and converted it from Java to Kotlin. Over time, I will need to get a better understanding of Android development to further improve the app.

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

My primary contribution was converting the entire codebase from Java to Kotlin. The intention behind this was to clean up the horrible practices that existed in the code while also shortening it and making it easier to read. Ultimately, I reduced the size of the codebase by 30% (1000 loc) and improved its performance by eliminating all memory leaks and utilizing more appropriate data structures. As Scrum Master, I coordinated the team by creating and directing meetings. I also helped created the project backlog.

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

I primarily worked on my own, but coordination was done with the whole team and I spent time with Will on making the project backlog.

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 managed my time extremely well this sprint. I finished my deliverable on the second day of the sprint, leaving my team ample room to continue working off of my contribution, which would have had major conflicts if it was done late.