

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: Nicholas Rosati

Q2. Student ID: 1037025

Q3. Associated Team Deliverable: Sprint 4

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 development
 - Java and Kotlin
- Server and API creation
 - Python with Flask framework
 - MariaDB and SQL
- Git
- Firebase Cloud Messaging

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

I have never used Firebase or any of its features before. I am familiar with Python, Flask, MariaDB, and SQL

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?

My learning this sprint was mostly about how Firebase Cloud Messaging works. To get it just working didn't take very long but understanding how it worked to properly implement it in our client and server took a little more time. For future learning, I will need to take a deeper dive

into Firebase, all the things you can do with it, and how these services interconnect with each other.

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

For this sprint I added functionality to the server to: allow searching the database for items based on name or barcode, detect low stock on items stored in the database, and send notifications to client devices on detection of low stock of items (using Firebase Cloud Messaging).

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

I collaborated with Shawn for adding notification support to the client. This was for sending test notifications to the device and then making sure the server could send them automatically as well. I also collaborated with the whole team when new API endpoints were created on the server. I had to inform the team of the changes made and that the server would be down to apply the changes.

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 very well this sprint. I got my allocated tasks done early on in the sprint leaving plenty of time for other team members to use the features I implemented for their tasks.