

OTAMS – Deliverable 1 Team Responsibilities & Worklists

Overview

Goal: Implement registration, login, and logout functionality for Students and Tutors.

Bonus: +5% for using a database (Firebase or SQLite).

Deadline: October 13, 2025

Tianqi Jiang – Project Lead (Setup, Integration & Database)

Responsible for overall architecture, Firebase/SQLite integration, and final app assembly.

Worklist

- Initialize Android Studio project and Gradle configuration
- Create base package structure (`activities` , `models` , `database` , `utils`)
- Design navigation: `LoginActivity` → `RegisterActivity` → `WelcomeActivity`
- Implement `User` , `Student` , `Tutor` , `Admin` data model classes
- Set up **Firebase Realtime Database** connection (or SQLite fallback)
- Implement CRUD operations for registration & login
- Seed **Administrator** credentials (`admin@otams.ca` / `admin123`)
- Integrate UI and logic from other members
- Conduct full functionality test (register → login → logout)
- Build final APK and create GitHub Release (v0.1)

Member B – Registration Lead (UI & Validation)

Responsible for the design and logic of Student/Tutor registration screens.

Worklist

- Create **StudentRegistrationActivity** layout (XML + Kotlin/Java)

- Create **TutorRegistrationActivity** layout (XML + Kotlin/Java)
- Add text input fields and buttons for all required attributes
- Implement input validation: empty fields, email format, password length
- Display user-friendly error messages for invalid inputs
- Connect registration data to database functions (provided by Tianqi)
- Test both Student and Tutor registration workflows
- Capture screenshots for README and demo video

Member C – Authentication & Navigation Lead

Responsible for login, logout, and role-based navigation.

Worklist

- Implement **LoginActivity** with email/password fields
- Verify credentials using database query (Student, Tutor, Admin)
- Navigate to **WelcomeActivity** after successful login
- Display correct message: “Welcome! You are logged in as <role>”
- Add Logout button to clear session and return to login screen
- Handle error messages for incorrect credentials
- Perform cross-role testing (Student / Tutor / Admin accounts)

Member D – Documentation & Demo Lead

Responsible for UML, README, and demo video preparation.

Worklist

- Design UML Class Diagram (User , Student , Tutor , Admin , relationships)
- Ensure UML includes attributes and associations (no Activity classes)
- Write **README.md** including:
 - Project overview and installation instructions
 - Admin credentials for testing
 - Team roles and contributions
- Record ≤ 5-minute demo video showing registration → login → logout
- Verify submission includes: APK, UML PDF, README, and video
- Confirm correct file names and GitHub Release version (v0.1)



Submission Checklist

- GitHub repository includes all team members
- Each member made at least one commit
- Demo video uploaded (≤ 5 min)
- UML class diagram (PDF)
- README file (with Admin credentials)
- APK file uploaded and named correctly
- Database implemented (Bonus +5%)

Administrator Account (for testing)

Email: admin@otams.ca

Password: admin123

Version: v0.1

Course: SEG2105 – Introduction to Software Engineering

University of Ottawa – Fall 2025