

Agreed Iteration Plan (Up to Week 9)

Project: Health, Safety & Wellbeing Training Tracker

Group: Project Group 1

Scope: Completion of all backend API features (Users, Groups, Trainings) by Week 9, supported by full team contribution.

1. Objectives

- Ensure **all backend coding is completed by Week 9** to meet MVP requirements.
- Re-allocate responsibilities so **all team members contribute to backend development**.
- Provide **clear documentation** for each API endpoint.
- Maintain updated **milestone tracker and Gantt chart** to reflect real progress.
- Prepare for frontend integration and Deliverable 3 in subsequent weeks.

2. Updated Division of Responsibilities

As per the **revised plan** (lead's recommendation), every member contributes to backend features:

Users Module

- **Siqi:** Create user (POST /users), get single user (GET /users/{id}), edit user (PATCH /users/{id}), delete user (DELETE /users/{id}).
- **Gayathri:** List users with pagination & search (GET /users), batch create users (POST /users/batch).

Groups Module

- **Christina:** Create group (POST /groups), update/edit group (PATCH /groups/{id}), delete group (DELETE /groups/{id}), add users to group (POST /groups/{id}/users).
- **Dani:** List groups (GET /groups with pagination & search), get single group (GET /groups/{id} with members).

Trainings Module

- **Wei:** Create training (POST /trainings), get single training (GET /trainings/{id}), edit training (PATCH /trainings/{id}), delete training (DELETE /trainings/{id}).
- **Manas:** Show user groups assigned to a training (GET /trainings/{id}/groups), show trainings assigned to a user group (GET /groups/{id}/trainings).

- **Zhaodong:** List all trainings (GET /trainings with pagination & search), link/unlink training to groups (POST/DELETE /trainings/{id}/groups).

3. Updated Timeline (Weeks 5–9)

Week	Planned Activities	Responsible Members
Week 5	Planning, role reallocation, and finalisation of API responsibilities. Setup of GitHub branches, milestone tracker, and Gantt chart.	All members
Week 6-8)	backend development: User APIs (create, get single, edit, delete, list, batch upload).	Siqi, Gayathri
Week (6-8)	Continue backend development: Group APIs (create, edit, delete, add members, list groups, single group with members).	Christina, Dani
Week (6-8)	Complete backend development: Training APIs (create, list, get single, edit, delete, link/unlink groups, show group-training assignments).	Wei, Manas, Zhaodong
Week (7-10)	Continuing frontend development with the develop backend features	(All as per the availability)
Week 9 (28th Sept)	Finalise all backend coding, conduct unit tests, refine error handling, and update API documentation. Backend MVP coding fully completed .	All members

4. Deliverables (By End of Week 9)

- Completed **backend APIs** for Users, Groups, Trainings.
- Updated **API Documentation** with request/response samples and error handling.

- Updated **Milestone Tracker & Gantt Chart** reflecting actual progress.
- Backend test results demonstrating functionality.
- Meeting minutes documenting changes and progress.

5. Risks & Mitigation

- **Risk:** Backend delays may push frontend integration.
 - *Mitigation:* Prioritise backend completion before Week 9; frontend integration starts immediately after.
- **Risk:** Overlap of multiple members on backend work may cause merge conflicts.
 - *Mitigation:* Enforce strict Git branching strategy and PR reviews.
- **Risk:** Testing compressed into Week 9.
 - *Mitigation:* Run partial testing in parallel as soon as each module (Users, Groups, Trainings) is completed.