# 📅 Sprint Plan: April 14 – April 21

**Sprint Goal**: Begin implementation of Feature 1 and Feature 2, ensuring all critical backend and frontend tasks are assigned, unit testing is initiated, and database designs are completed.

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## 🔧 Assigned Tasks by Member

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### Alexis

| Task | SP | Priority |
| --- | --- | --- |
| Design schema for storing user workout history & achievements | 3 | High |
| Create badge logic for distance milestones (5K, 10K, etc.) | 2 | Medium |
| Create badge logic for workout frequency (7-day, 30-day streaks) | 2 | Medium |
| Create badge logic for personal bests (fastest mile, longest run) | 2 | Medium |
| Track social engagement (shared post, 10 interactions) | 2 | Medium |
| Unit test badge logic | 2 | Medium |

🟢 **Total Story Points**: 13
📌 **Plan**: Focus on backend badge logic and schema work early in the week. Begin unit tests by Thursday.

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### Neayla

| Task | SP | Priority |
| --- | --- | --- |
| Build backend logic to track consecutive workout days | 3 | High |
| Design user profile UI to display achievements | 3 | High |
| Implement frontend components for badge display | 2 | High |
| Integrate frontend with backend APIs for streak/badge updates | 3 | High |

Unit test workout streak logic                                    2      Medium

🟢 **Total Story Points**: 13
📌 **Plan**: Frontend UI first (Mon–Tues), backend streak logic midweek (Wed–Thurs), integrate and test by weekend.

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**Stanley**

| Task | SP | Priority |
|------|----|----------|
| Design nutrition and meal logging database schema | 3 | High |
| Implement water intake monitoring system | 2 | Medium |
| Build analytics feature to correlate nutrition with performance | 3 | High |
| Integrate frontend UI with backend nutrition tracking APIs | 3 | High |
| Write unit tests for nutrition backend logic | 2 | Medium |

🟢 **Total Story Points**: 13
📌 **Plan**: Schema & analytics logic Mon–Wed, integration Thurs–Fri, testing by weekend.

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**Diego**

| Task | SP | Priority |
|------|----|----------|
| Build backend logic to log meals and nutrients | 3 | High |
| Create UI for daily meal logging and macronutrient input | 2 | Medium |
| Add functionality for setting and tracking calorie goals | 2 | Medium |
| Write unit tests for frontend meal logging and UI interactions | 2 | Medium |

🟢 **Total Story Points**: 9
📌 **Plan**: UI and calorie logic early in week, backend middle, test on Friday.

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# 🧩 Daily Sprint Breakdown (April 14 – April 21)

## 📅 Monday, April 14 – Sprint Kickoff & Setup

- Set up GitHub Issues and ensure all tasks are properly assigned with:

    - Milestone: `Unit 5 Deliverable`

    - Labels: `SP:`, `Priority`, `Feature 1/2`, etc.

- Begin designing:

    - **Workout tracking schema** (Alexis)

    - **Nutrition tracking schema** (Stanley)

- Finalize any missing acceptance criteria for tasks.

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## 📅 Tuesday, April 15 – Backend Logic & UI Wireframes

- **Alexis**: Implement badge logic for distance and workout frequency.

- **Neayla**: Begin backend logic for tracking workout streaks.

- **Stanley**: Begin implementation of water intake tracking + analytics foundation.

- **Diego**: Build backend for logging meals and nutrients.

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## 📅 Wednesday, April 16 – Full Backend Development & UI Prototypes

- Continue backend development:

    - Alexis: Social engagement tracking logic.

- - Stanley: Correlation logic between nutrition and performance.

  - Diego: Calorie tracking functionality and backend route connections.

- Finalize UI layout for:

  - **Achievements Display (Neayla)**

  - **Meal Input & Macronutrients (Diego)**

- Neayla: Begin setting up frontend badge component structure.

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## 📅 Thursday, April 17 – Integration Day 1

- Backend → Frontend integration begins:

  - Neayla connects streak/badge APIs to frontend.

  - Stanley links performance analytics to frontend dashboard view.

- UI polish:

  - Alexis: Refine backend endpoints and error handling.

  - Diego: Implement UI logic for calorie + macronutrient inputs.

- Mid-sprint check-in: Team sync via Zoom or Discord.

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## 📅 Friday, April 18 – Testing & Bug Catching Begins

- Begin writing unit tests:

  - Alexis: Badge logic unit test

  - Neayla: Workout streak logic test

  - Stanley: Nutrition logic test

- - Diego: UI test for logging meals

- Refactor integration points (e.g., user state, input validation).

- Fix API call edge cases, start input testing (e.g., no meals logged, badge not awarded).

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## 📅 Saturday, April 19 – Quality Assurance & Code Freeze Day

- Run full manual test walkthroughs.

- Fix frontend layout bugs (responsive UI, badge visibility, etc.).

- Adjust achievement criteria based on feedback (e.g., streak bug).

- Confirm all features work on both backend and frontend.

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## 📅 Sunday, April 20 – Peer Testing & Final Fixes

- Internal testing swap:

  - Alexis & Neayla test Feature 2

  - Stanley & Diego test Feature 1

- Peer review all open PRs.

- Final refactors: clean up logic, remove console logs, polish UI.

- Ensure all unit tests pass and edge cases are covered.

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## 📅 Monday, April 21 – Final Prep & Submission

- Close all GitHub Issues under the `Unit 5 Deliverable` milestone.

- Create `v5` GitHub Release with working version of the app.