Version Plan

Group 10

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Software Process and Project Management

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Version Overview

Version 1: Core Feature

Focuses on essential functionality to get the app operational:

- User registration and login
- Class and trainer browsing
- Booking and confirmation
- Room and trainer management
- Membership and account access

Version 2: Personalized Experience

Adds user-centric features:

- Personalized fitness plans
- Goal selection and progress tracking
- Weekly reports and insights
- Referral program and rewards

Version 3: Final Enhancements

Polishes the app with:

- Reporting features
- Final UI/UX improvements
- Performance optimization

Use Case Diagrams

Figure 1: Create Account

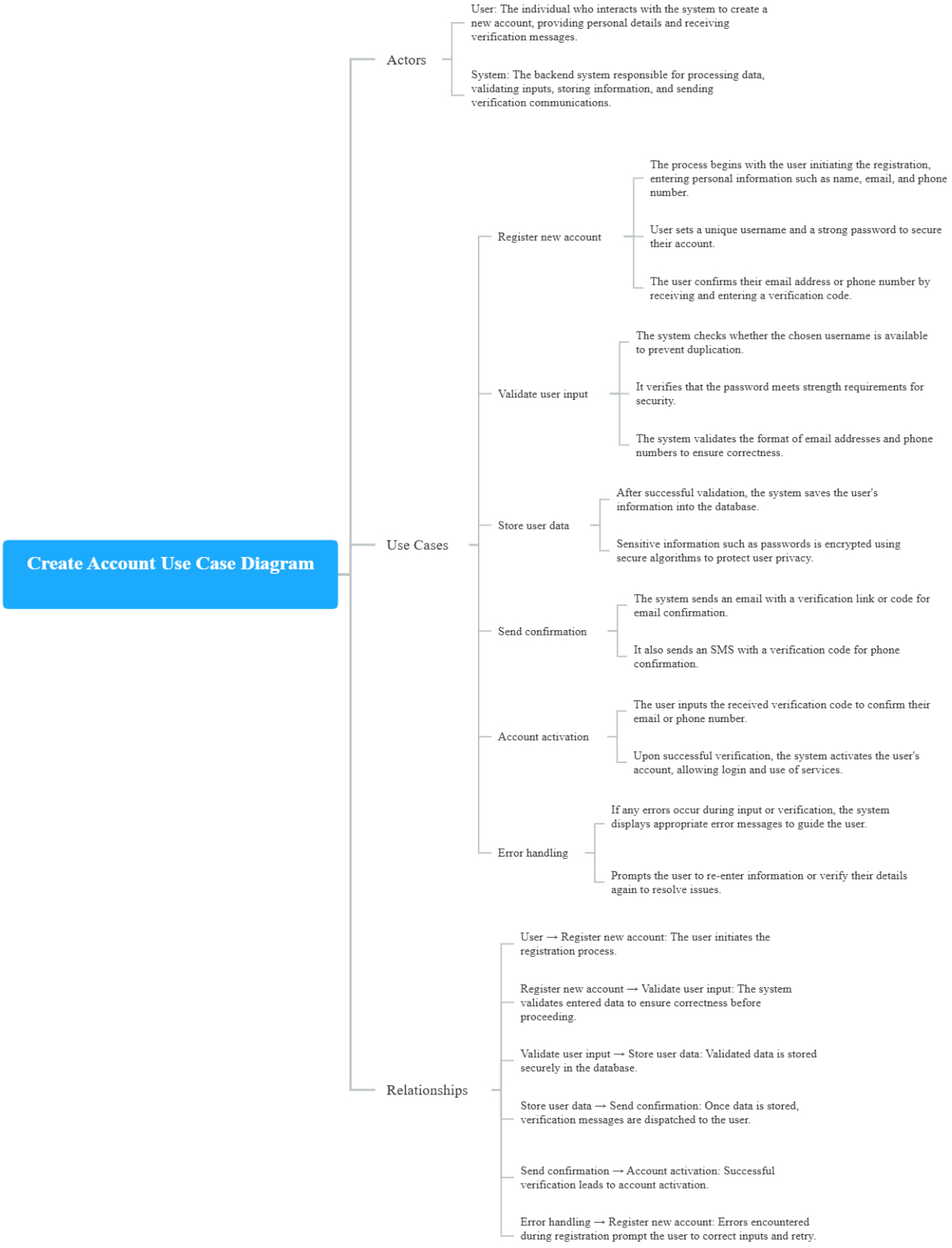


Figure 2: Progress Tracking

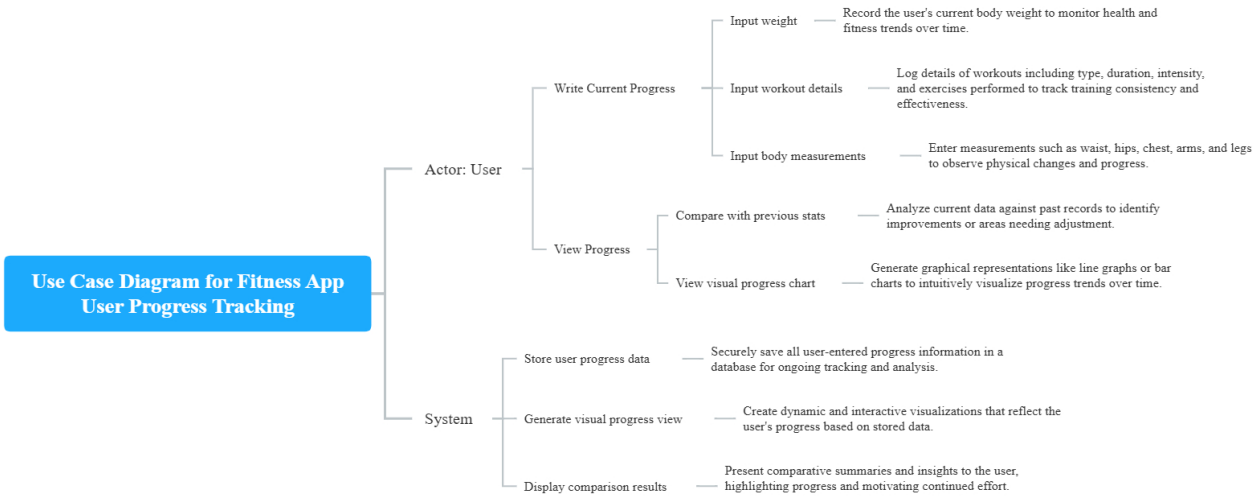
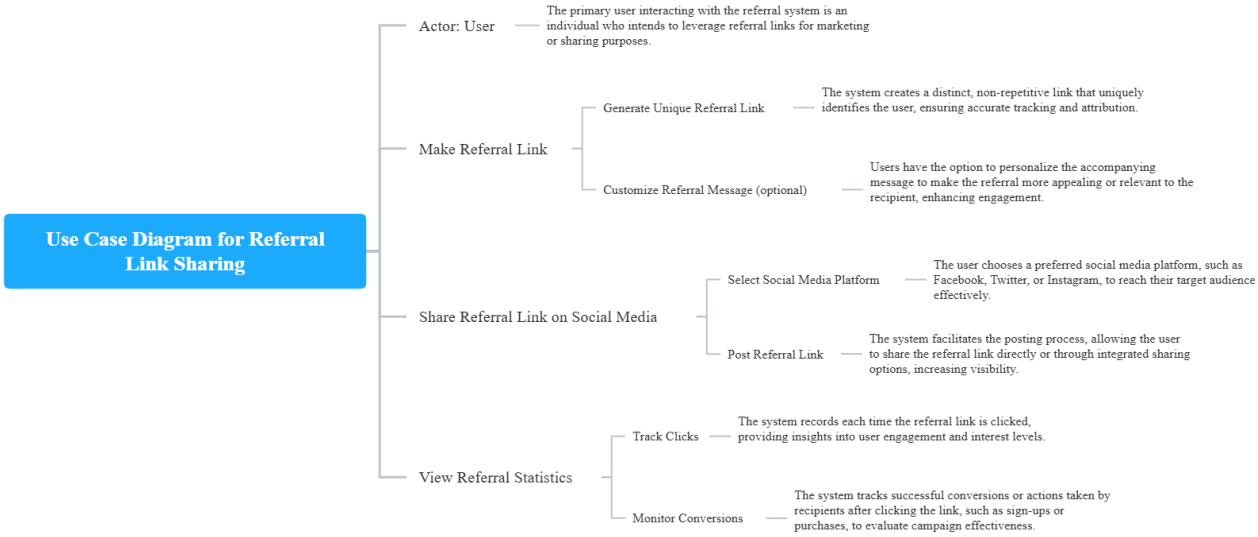


Figure 3: Share Referral Links



Activity Diagrams

Figure 4: Create Account

Create Account - continued

```
[Code valid?]
   |        |
   |       No ----> Display error message
   |                Prompt for re-entry
   |                  |
   |                  v
   |                End
   |
   Yes
   |
   v
Account activated
   |
   v
End
```

Figure 4 outlines the sequence of actions and decisions involved in the account creation process. **Explanation:**

1. **Start:** The process begins when the user initiates account creation.
2. **User Input:** The user provides personal details, sets a username and password, and confirms their email or phone number.
3. **Validation:** The system checks for username availability, password strength, and correct formatting of contact details. If validation fails, the user is prompted to correct the input.
4. **Data Handling:** Validated data is securely stored, with sensitive information encrypted.
5. **Verification:** A confirmation code is sent to the user via email or SMS.
6. **Activation:** The user enters the code. If valid, the account is activated. If invalid or expired, the user can request a new code.
7. **Completion:** The user is notified of successful account creation and redirected to the welcome page or dashboard.

Figure 5: View Progress Tracking

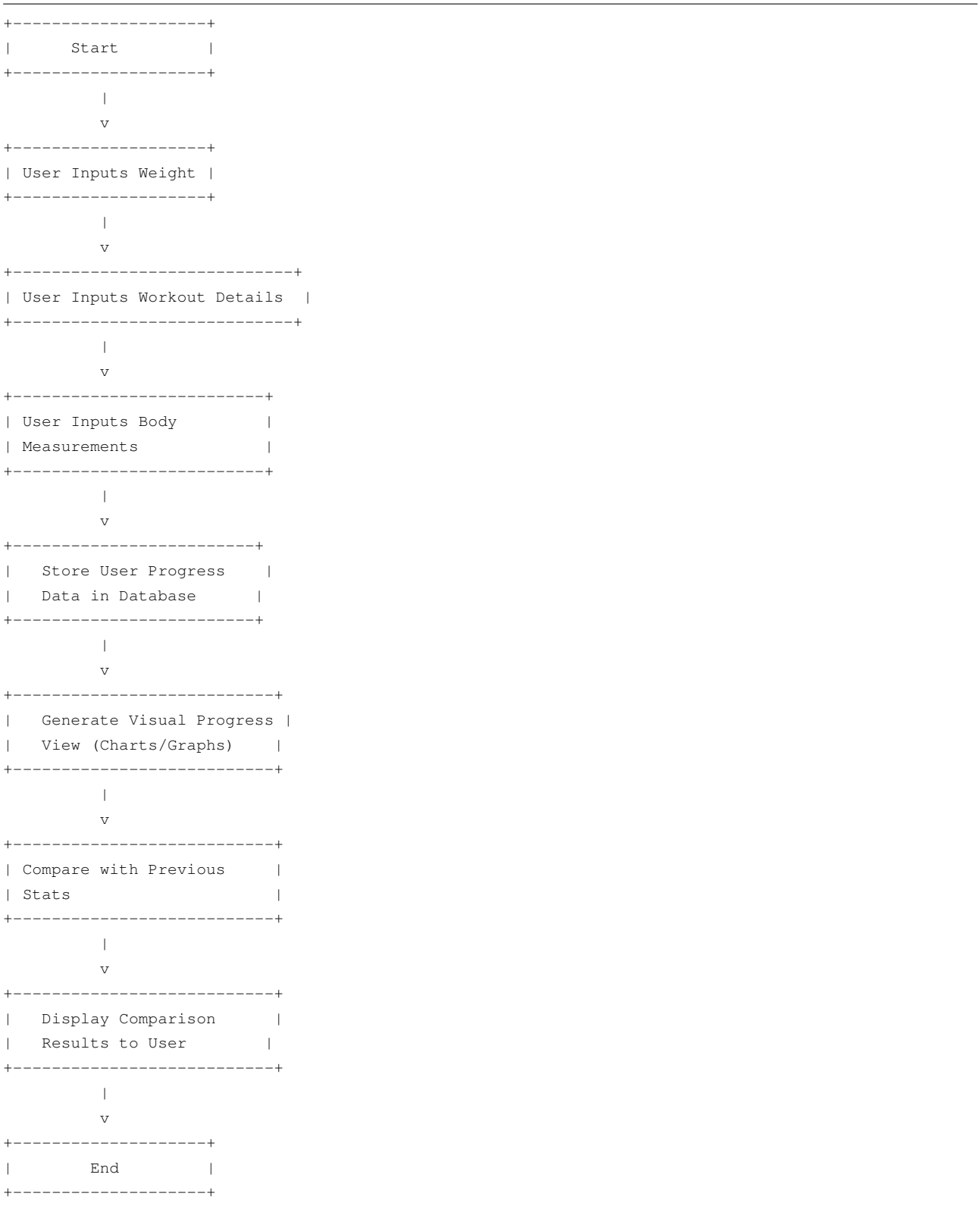


Figure 5 provides a clear flow of actions and interactions for the user within the fitness app.

Explanation:

1. **Start:** The activity begins when the user initiates the process.

2. **User Inputs Weight**: The user inputs their current weight.
3. **User Inputs Workout Details:** The user logs their workout information.
4. **User Inputs Body Measurements:** The user enters their body measurements.
5. **Store User Progress Data:** The system stores all entered data in a database.
6. **Generate Visual Progress View:** The system generates visual representations of the progress.
7. **Compare with Previous Stats:** The system compares the current data with previous records.
8. **Display Comparison Results to User:** The system displays the comparison results to the user for insights.
9. **End:** The activity concludes.

Figure 6: Activity Diagram

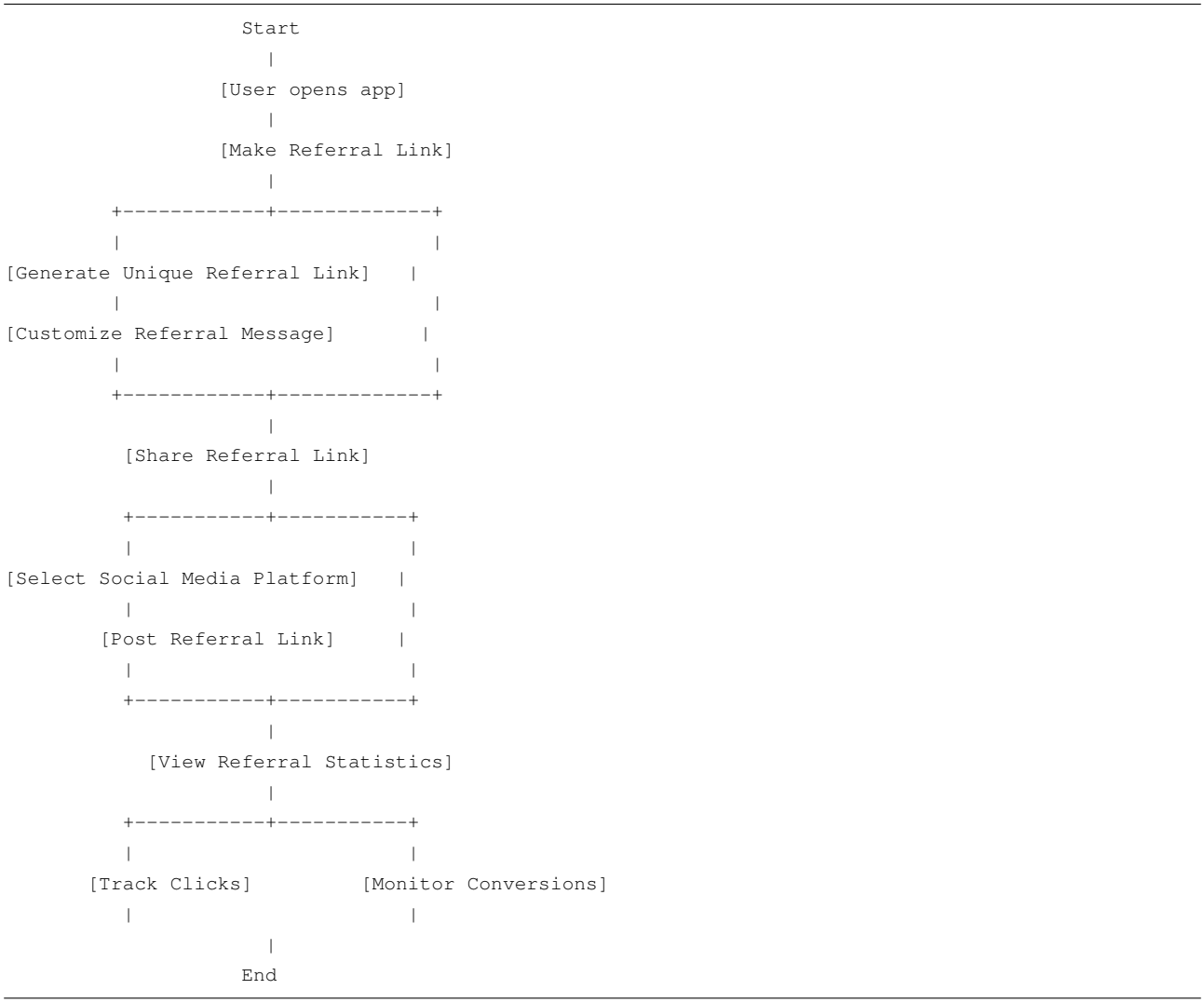


Figure 6 visually represents the flow and decisions involved in creating and sharing a referral link effectively!
Explanation:

1. **Start:** The activity begins when the user opens the app.

2. **Make Referral Link:** The user initiates the process to create a referral link.
3. **Generate Unique Referral Link:** The system generates a unique link for tracking.
4. **Customize Referral Message (optional):** The user can customize their message (optional step).
5. **Share Referral Link:** The user decides to share the generated link.
6. **Select Social Media Platform:** The user selects the platform (e.g., Facebook, Twitter).
7. **Post Referral Link:** The user posts the referral link on the chosen platform.
8. **View Referral Statistics:** The user has the option to view statistics regarding the shared link.
9. **Track Clicks:** The system tracks how many users clicked on the link.
10. **Monitor Conversions:** The system also monitors how many users completed the desired action after clicking the link.
11. **End:** The activity concludes.

Project Board

This board tracks the development progress of all features across Versions 1, 2, and 3. It includes tasks, issue numbers, and their current status to ensure transparency and coordination throughout the project lifecycle.

» Link the Project Board «