June 2023

Test Plan and Report,

Training Control Center

## Reminder of User Stories

| **Sprint 1 (Upload activities, basic aggregate data, individual sport data)**   * 1.1 As a new user, I want to register account [5] - 10 hours * 1.2 As a returning user, I want to log in with my personal account [5] - 10 hours * 1.3 As a user, I want to access a home screen with basic training history [3] - 8 hours * 1.4 As a user, I want to update goals and starred workouts in settings [3] - 8 hours * 1.5 As a Strava user, I want to sync workouts from other platforms such as Strava to Training Control Center [4] - 14 hours * 1.6 As a user, I want a monthly breakdown of the time/distance/etc. spent doing some activity. (Ethan) [2] - 11 hours |
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| **Sprint 2 (Set (sport or event specific) goals, manual data entry, activity filters)**   * 2.1 - As a user, I want to see similar activities in list view by being able to filter based on traits including sport type, duration, date. (Fabrice) [3] - 14 hours * 2.2 - As a strength or recreational user, I want to manually enter my completed workouts. (distance, time, weight lifted, heart rate, pace) (Tung) [3] - 11 hours * 2.3 - As a manual entry user, I want to enter workout details including workout type, intervals and perceived exertion. [2] - 3 hours * 2.4 - As a user, I want to be able to create a weekly time/distance goal. (Daniel) [2] - 11 hours * 2.5 - As a goal driven user, I want to set time/distance goals for specific sports. [2] - 3 hours * 2.6 - As a competitive user, I want to be able to set a goal time for a workout, for example 17 minute 5k run. (Ethan) [3] - 11 hours |
| **Sprint 3 (Cool data insights, activity cards, data visualization, goal tracking)**   * 3.1 As a data driven user, I want to see starred activities with total value summaries (for example total running/week). [3] - 12 hours * 3.2 As a data driven user, I want to see general time and distance summaries and historic comparisons across all activity types. [2] - 10 hours * 3.3 As a data driven I want to see detailed information for every workout from either the workout filter or a graph showing a specific workout [3] - 10 hours * 3.4 As a visually inclined user, I want to see trends in quality graphs showing my general training volume. [4] - 15 hours * 3.5 As a visually inclined user, I want to see trends in quality graphs, curated for specific sports. [4] - 15 hours |
| **Sprint 4 (Training plan creation and sport breakdown)**   * 4.1 As a user, I want to quickly and easily make a weekly training plan where I add workouts to complete [5] - 20 hours * 4.2 As a user, I want to see the rough estimation for total time and distance given the plan I create. [3] 12 hours * 4.3 As a user, I want to see the sport breakdown of planned training weeks [4] - 10 hours * 4.4 As a user, I want to see the sport breakdown of completed activities [2] - 8 hours |

## System Test Scenarios

### Sprint 1 User Stories

Test 1: US 1.1, 1.2, 1.3

1. Arrive at Login page
2. Type in Username=”testUser”, Password=”password”
3. Click Login, expect error, no such user
4. Click Register, expect success
5. Click Login, expect success and navigation to blank home page

Test 2: US 1.4

1. Click Profile circle, Settings
2. Expect navigation to settings page
3. Click on Star next to “Run”
4. Expect “Run” to become starred activity

Test 3: US 1.5, 1.6

1. Click “Authenticate with Strava”
2. Sign in with Strava account
3. Expect redirection to home page, success
4. Click on homepage button titled “Upload Activities From Strava”
5. Click Activity List
6. Expect redirect to activity list with populated activities from Strava sync

### Sprint 2 User Stories

Test 1: US 2.1

1. Click “Activity List” on app bar
2. Expect a list of user activities from strava and manual.
3. Be able to filter based on various criteria, like most distance, longest duration, and alphabetical activity names.
4. Be able to select how many activities to be viewed, and scroll through pages.

Test 2: US 2.2, 2.3

1. On the home page, the user should see a form to enter a manual workout.
2. Expect a form with boxes to fill out activity name, sport type, activity type, etc.
3. Click “Additional Information” to fill out distance, time, description.
4. Expect manual workout to be added to list of activities for user

Test3: US 2.4, 2.5, 2.6

1. Navigate to the Settings page
2. Click on the “Add Goal”
3. Expect a card with blanks to fill out activity goal name, sport type, distance, activity type, and desired days
4. Expect the new goal of activity to be added to the list of goals for users

### Sprint 3 User Stories

Test 1: US 3.1, 3.2

1. Click “Data Center” on app bar
2. Expect to see two charts and ranking lists
3. Be able to set different time ranges for each chart and ranking
4. Expect a form with menus to choose graph types, duration, sport types, and start date
5. Click “Compare with goals”
6. Click “Generate Graph”
7. Expect the graph based on the selected options

Test 2: US 3.3

1. Click on “Recent Activities” on app bar
2. Expect to see a list of activities sorted by descending date
3. Click on choice of filter or order activities and see list update
4. Double click on any list item
5. Expect to see card popup of list item information

Test3: US 3.4 3.5

1. Click “Data Center” on app bar
2. In the “Generate a Graph” box, fill all fields with “Time” “Day” “All Sports” “Date”
3. Expect to see a line graph showing Time per Day for All Sports
4. In the “Generate a Graph” box, fill all fields with “Time” “Day” “Pie” “Date”
5. Expect to see a pie graph showing Breakdown of Time following “Date”

### Sprint 4 User Stories

Test 1: US 4.1

1. Click “Plan Training”
2. Expect a form with boxes named “Plan Activity” to fill out activity name, activity type, sport type, date, etc.
3. Click “Additional Information” to fill out distance, time, description
4. Click “Plan Activity”
5. Expect planned activity to be added to the list of planned activities for users

Test 2: US 4.2

1. Expect a heading named “Plan Summary”
2. Be able to select start and end dates
3. Expect a box with total distance and total time based on the selected date range

Test3: US 4.3

1. Expect the calendar at the bottom of the page to show all planned activities added in test 4.1 above.

Test4: US 4.4

1. Expect a form with boxes named “Generate a Graph” to fill out graph type, duration, start date, etc.
2. In the “Generate a Graph” box, fill all fields with “Time” “Day” “All Sports” “Date”
3. Expect to see a line graph showing Time per Day for All Sports
4. In the “Generate a Graph” box, fill all fields with “Time” “Day” “Pie” “Date”
5. Expect to see a pie graph showing Breakdown of Time following “Date”

All tests described above passed with activities uploaded from a valid strava account. If no activities are in the Strava account, information will not be meaningful.