

Ng Chee Kiang - Project Portfolio Page

Overview

FitTrackCLI is command-line-based chatbot to help users manage their NAPFA related exercises and goals. It lets users record and track training sessions, calculate their NAPFA scores and awards and set fitness goals.

Summary of Contributions

Code contributed: [\(link\)](#)

Enhancements implemented:

I implemented the following and also implemented all the Junit testings under my class.

Class	Purpose
<code>ExerciseStation</code> (abstract)	Base class for stations, providing common structure for tracking performance and points.
<code>SitUpStation</code>	Tracks and formats user's sit up reps and provides exercise information.
<code>PullUpStation</code>	Tracks and formats user's pull up reps and provides exercise information.
<code>StandingBroadJumpStation</code>	Tracks and formats user's jump distance and provides exercise information.
<code>WalkAndRunStation</code>	Tracks and formats user's 2.4km run time and provides exercise information.
<code>ShuttleRunStation</code>	Tracks and formats user's shuttle run time and provides exercise information.
<code>SitAndReachStation</code>	Tracks and formats user's sit and reach length and provides exercise information.
<code>Calculation</code> (abstract)	Base class for different exercise calculators, providing structure for calculating points based on performance and

Class	Purpose
	user attributes.
SitUpCalculator	Calculates points for the sit-up based on age, gender and reps.
PullUpCalculator	Calculates points for the pull-up based on age, gender and reps.
StandingBroadJumpCalculator	Calculates points for the standing broad jump based on age, gender and distance.
SitAndReachCalculator	Calculates points for the sit and reach station based on age, gender and length.
LookUpKey	indexing user attributes (such as age and gender) within lookup tables for point calculation.
InvalidAgeException	Custom exception class for handling invalid age entries.
GraphPerformanceTime	Displays a graph of normalized time performance against session index for time-based exercises.

Documentation:

User Guide:

Documented Performance Graph for time based and non-time based station section, cheatsheet table section and FAQ section.

Developer Guide:

Documented setting up,getting started section, add Training Session section and its sequence diagram, Points Calculation and its sequence diagram, as well as GraphPerformanceTime Class and its sequence diagram.

Project Management:

Contributions to team-based tasks

Code cleaning and enhancement and maintenance of issue tracker.

Review/mentoring Contribution:

Responsible for reviewing and providing feedback on 36 PRs.