

Criterion B: Design

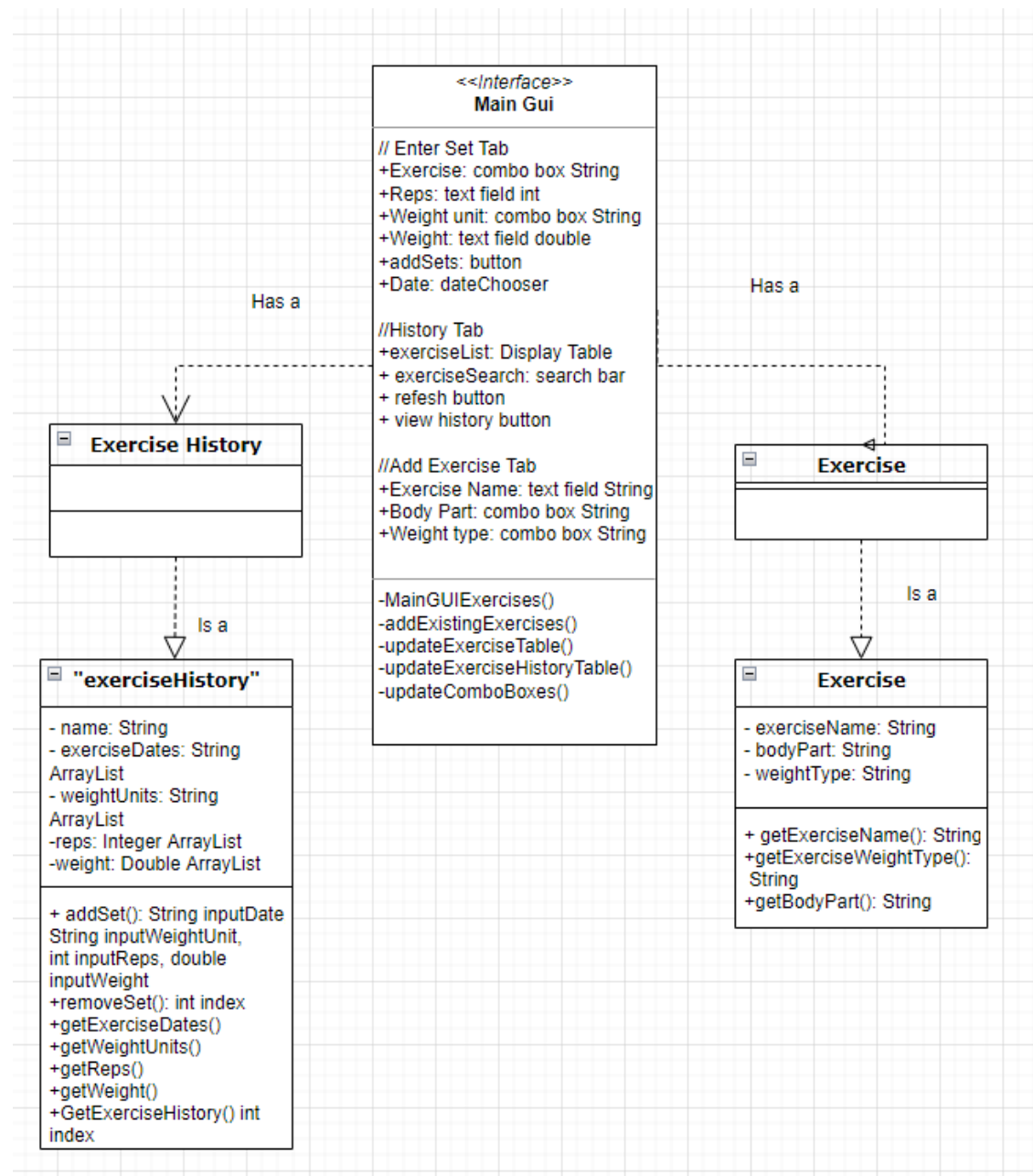
Input Table:

Input	Data Type	Example
Repetitions	Int	10
Weight Unit	String	"Metric"
Weight	Double	60.5
Date	String	"Tue Feb 01 00:04:33 ICT 2022"
Exercise name	String	"Bench Press"
Exercise type	String	"Dumbbells"
Exercise body part	String	"Chest"

Output Table:

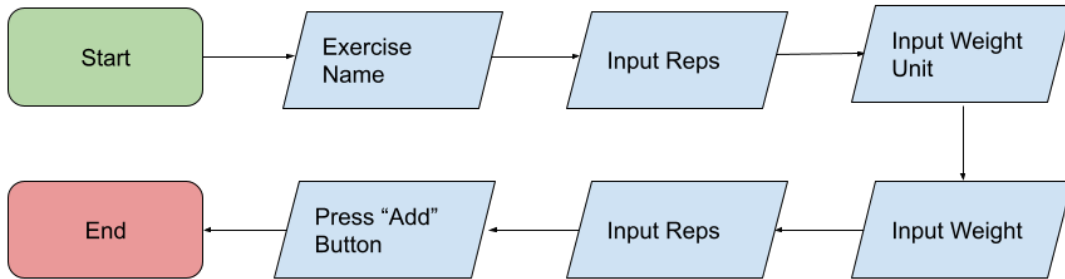
Output	Data Type	Example
Display Graph	Double Array	-
Display Table of exercise List	LinkedList	-
Display Table of exercise history for individual exercises	ArrayLists	-
Search Bar for exercises	String	"Deadlift"

UML Diagram:

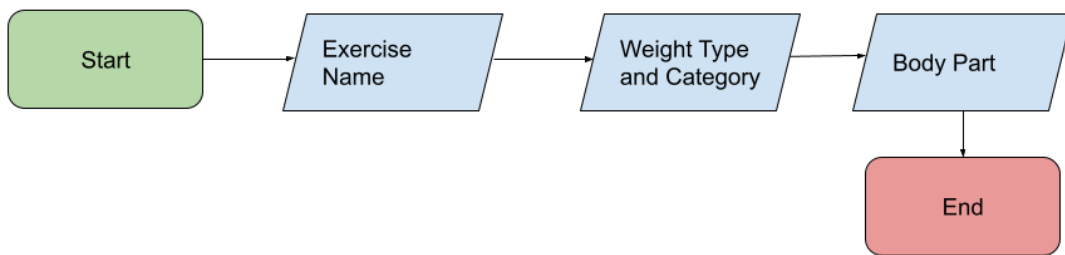


Flow Charts:

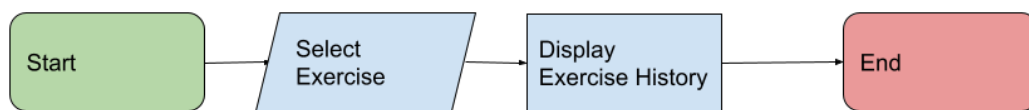
Adding a Set Flow Chart



Adding an Exercise Flow Chart



View Exercise history



Final Prototype:


Enter Set Add Exercise Exercise History

Choose Exercise x ▾

Weight Unit kg ▾

Reps: Enter Reps

Weight Enter Weight

Date: 

Add Set

Enter Set Add Exercise Exercise History

Exercise Name: Enter Exercise Name

Body Part: Arms ▾

Weight Type Barbell ▾

Add Exercise

Enter Set Add Exercise Exercise History

Exercise Name	Body Part	Weight Type
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Exercise Name

Name Search

Refresh

View History

<exercise> History

Date	Weight Unit	Reps	Weight
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Remove Set

Test Plan:

Input	Example	Error
Exercise Name	“Bench Press”	Not a String
Reps	10	Not an int Empty
Weight	12.5	Not an int or double Empty
Exercise Name Search	“Deadlift”	Not a String Empty Doesn't match with any