

Since we have already talked about this, I will not comment on it.

Neil

EllipticalMachine

Report on Configuration DefaultConfig

Overridden Properties

Subjects:

CG

Metaclasses:

CGGeneral

Properties:

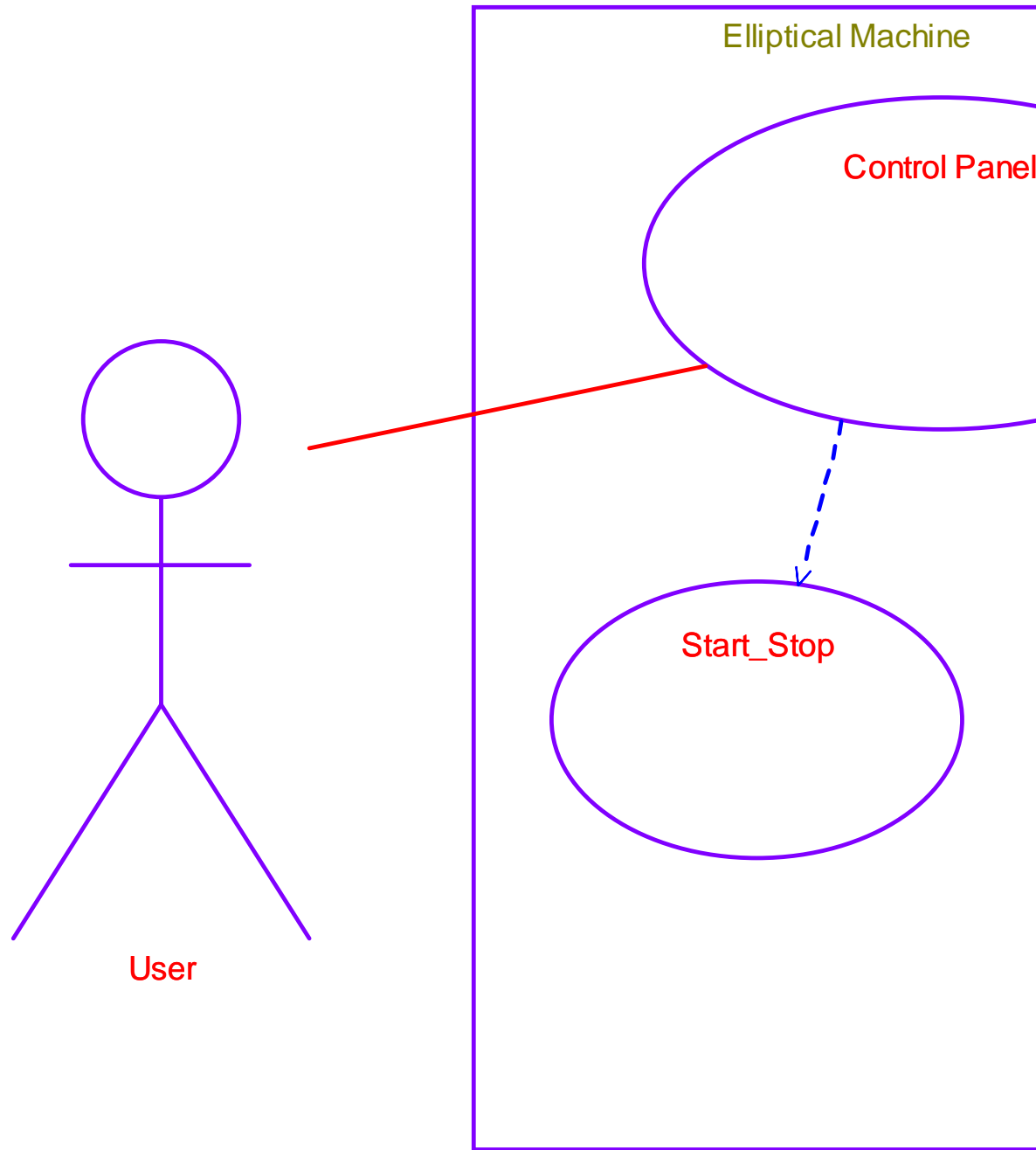
GeneratedCodeInBrowser: True

PACKAGES

Default

USE CASE DIAGRAMS:

EllipticalMachineUseCase



GLOBALS:

CLASSES:

Controller

This is invisible to the user; he/she does not know anything the controller does. What the

user presses a button from the display, the controller handles the request by communicating with Course or Options and send what information it gets back to Display.

Relations:

itsDisplay

exchange info

Association with Display, Multiplicity of 1, Bi-directional

itsOptions

get data

Association with Options, Multiplicity of 1, Uni-directional

itsCourses

get data

Association with Courses, Multiplicity of 1, Uni-directional

Attributes:

Program

This is where the user can design a specific workout prior to actually starting. They have a choice of choosing an inclination and resistance level, time for workout and specific course.

Type of int, Public

Start_Stop

The start puts the user in manual mode to begin the workout immediately. Pressing start again stops the workout.

Type of int, Public

Courses

All the different courses are contained here. If the user requests a specific course, the Controller asks Courses which one.

Attributes:

FatBurnPlus

The Resistance is set to max (5) and the Inclination is set to max (10). The workout time is 20 minutes.

Type of char, Public

GradualIncline_Decline

The Resistance starts at 0 and at the middle of the workout (10 minutes) peeks to 5 and then it gradually declines to 0 again at 20 minutes. Same thing for the Inclination; it starts at 1 and at the middle of the workout (10 minutes) peeks to 10 and then it gradually declines to 1 again at 20 minutes. The workout time is 20 minutes.

Type of char, Public

Hills

The Resistance starts at 0 and Inclination at 1. After a minute they both peek to 5 and 10. After the next minute they drop to 1 and 2 and after the next minute they both go to 4 and 9 and so on. The pattern continues until the workout ends, which is 20 minutes.

Type of char, Public

Manual

The Resistance is defaulted to 0 and the Inclination is defaulted to 1. The workout time is defaulted to 20 minutes. The user has the choice of choosing his/her format of workout.

Type of char, Public

Display

This is where the user interacts with the system. The display reacts to what the user presses and asks the Controller what to do next. It displays the InclinationLevel, ResistanceLevel and TimeLeft from Options and the CourseChosen from Course.

Relations:

itsController

exchange info

Association with Controller, Multiplicity of 1, Bi-directional

Attributes:

Calories

Calculates how many calories burned per minute such as 20 calories per minute.

Type of int, Public

CourseChosen

Whatever Course is chosen by the user through the Display is then displayed to them.

Type of int, Public

InclinationLevel

Whatever Inclination is chosen by the user through the Display is then displayed to them.

Type of int, Public

ResistanceLevel

Whatever Resistance is chosen by the user through the Display is then displayed to them.

Type of int, Public

TimeLeft

The amount of time left is displayed to the user.

Type of int, Public

Options

The Options holds inclination, resistance and time. When the user requests a specific workout time and/or inclination level and/or resistance level the Controller requests that information from Options.

Attributes:

Incline

Where the user can select which inclination level he/she wants. Incline ranges from ground level (1) to a steep peak (10). Default starts at 1.

Type of int, Public

Resistance

Where the user can select which resistance level he/she wants. Resistance ranges from none (0) to a difficult (5). Default starts at 0.

Type of int, Public

Time

Default time is 20 minutes and if the user wants a longer/shorter workout, he/she adjusts it accordingly. It increments/decrements by 5 minutes.

Type of int, Public

ACTORS:

User

Relations:

itsControl Panel

Association with Control Panel, Multiplicity of 1, Bi-directional

USE CASES:

Control Panel

This the keypad where the user begins the workout. He/she has the option of either starting the workout right away by manually controlling his/her workout. The other option is to select a program and preset the workout.

Relations:

itsUser

Program

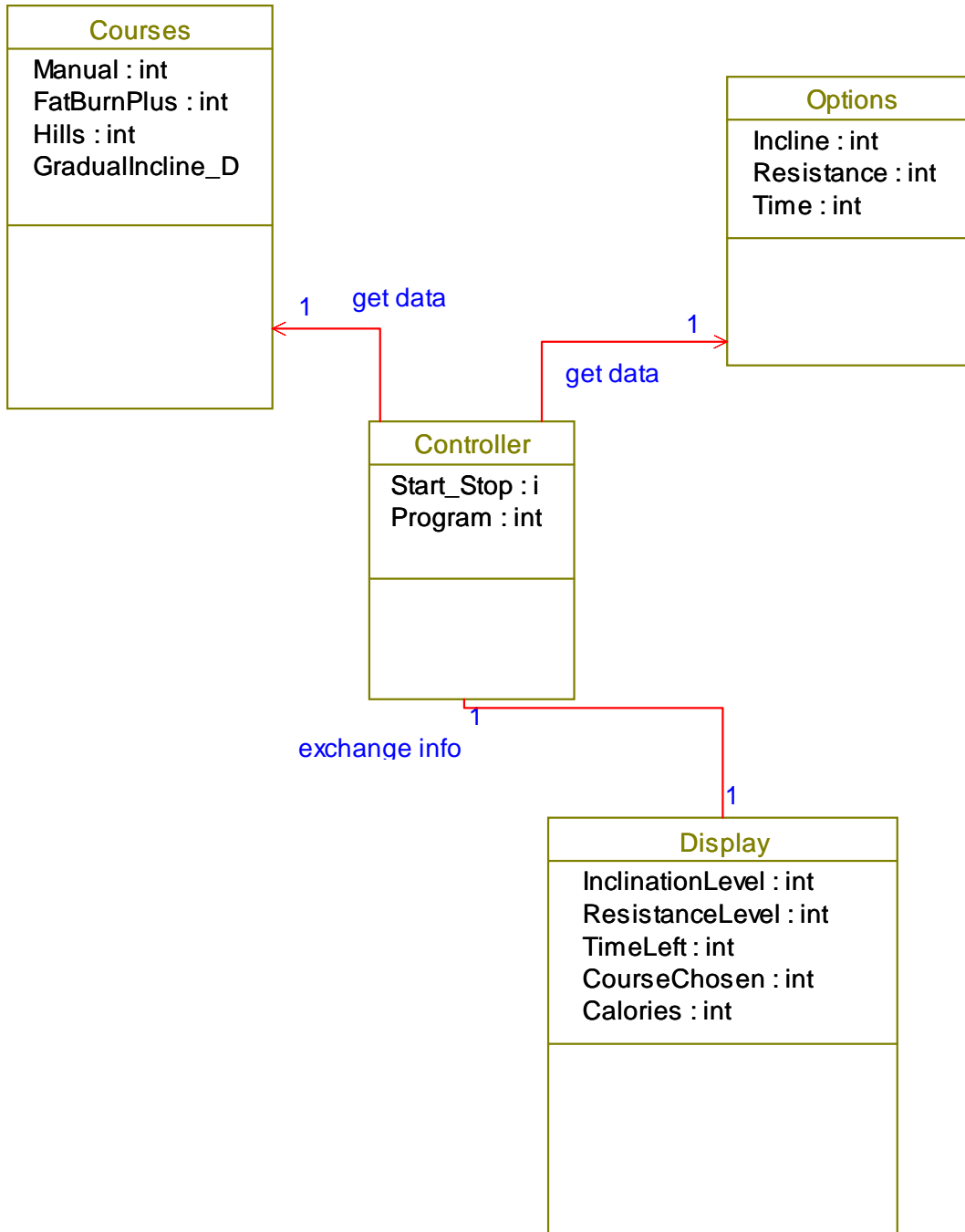
Start_Stop

When the person presses the Start_Stop button for the first time and presses it only once, the workout begins immediately with a resistance of 0, incline of 1 and time of 20 minutes which decrements down and the workout ends when it reaches 0. If the user presses

Start_Stop again it terminates the workout.

OBJECT MODEL DIAGRAMS

EllipticalMachineOMD



COMPONENTS

DefaultComponent

COMPONENT SETTINGS:

Build type: Executable

CONFIGURATIONS:

DefaultConfig

Scope type: Explicit

Instrumentation type: None

Time-model type: Real-time

Statechart generation type: Flat

FILES AND FOLDERS: