Washington State University

Cpts 322: Software Engineering Principles I
Dr. Haipeng Cai

Project Milestone 7

Coding Girls and a Manager

11514680	Madison Jane Holcomb
11611751	Kadupitige Ashi Chamarasinghe
11625004	Sydney Erin Gormley
11628495	Navroop Kaur
11689463	Sonam Yangtso
11701083	Jongyun Kim

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1. Input Process Components

Test Case Type	Unit test – Login(string, email, string password): User
Test Target	Login Process
Test Input	"andrew@gmail.com", "Cpts322!" – Email does exist, and password matched
Expected Output	User object that matched login information

Test Case Type	Unit test –AddTrainingSession(int trainerId, string data, string time, string location, int capacity): bool
Test Target	Create training session process
Test Input	2, "05/06/2020", "10:00 AM", "", 10 – zero length of location is not allowed
Expected Output	false

Test Case Type	Unit test –AddBodyFatReport(string: name, string: gender, int age, int heightFeet, float heightInch, float TBW, flaot DLM, float BFM, string comment): bool
Test Target	Create body fat report process
Test Input	"Amy", "Female", 23, 4, 10.3, 47.4, 17.2, 34.6, "") – check the empty field exists
Expected Output	true

2. Gym Management Components

Test Case Type	Unit test – SetMember(int customerId): bool
Test Target	Set isMember attribute to true
Test Input	1 – user Id 1 is not customer
Expected Output	false

Test Case Type	Unit test – AddParticipant(string participantName): bool
Test Target	Add a participant in training session if isFull attribute is false
Test Input	"Amy" – the training session attribute isFull is true
Expected Output	false

Test Case Type	Unit test – CalculateBMI(int heightFeet, float heightInch, float weight): float
Test Target	Calculate the BMI in the BFRMgmt Class
Test Input	4, 10.3, 99.2 – input except any empty value or 0
Expected Output	20.5

3. Output Process Components

Test Case Type	Unit test –getUserList(): List<User>
Test Target	Rendering admin dashboard with all user list
Test Input	None – loop the userList and extract all user which exist in userList
Expected Output	List object that contains User object

Test Case Type	Unit test –getTrainingSessions(int trainerId): List<TS>
Test Target	Rendering trainer dashboard with viewing training sessions
Test Input	2 – loop the trainingSessionList and extract training sessions belongs trainer Id 2
Expected Output	List object that contains TS object

Test Case Type	Unit test – getStatisics(int memberId): float[]
Test Target	Rendering Customer Dashboard process showing all statistic information
Test Input	10 – loop the bodyFatReportList and returns statistics value
Expected Output	Float Array that contains statistics values