A close up of a sign

Description automatically generated

**Cpts 322: Software Engineering Principles I  
Dr. Haipeng Cai**

**Project Milestone 7**

Coding Girls and a Manager

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1. **Input Process Components**

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| 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 |

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| 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 |

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| 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 |

1. **Gym Management Components**

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| 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 |

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| 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 |

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| 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 |

1. **Output Process Components**

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| 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 |

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| 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 |

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| 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 |