**User\_Information Class Description Form**

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| **Name** | *User\_Information* |
| **Base Class(es**) | Server\_Application |
| **Purpose** | *A User Information object contains all the user information that can be listed, kept, used by other modules r discarded.* |
| **States** | *Empty, full, or neither.*  *Inactive or Active* |
| **Constructors** | *Default: contains user information* |
| **Operators**  **Mutators**      **Accessors** | *setWorkout(workouts:Workouts)*  *updateProfile(dob:String,height:Integer,weight:Integer)*  *setPassword(newPassword: String)*  *addBalance(balanceToAdd:Integer)*  *addWorkout(newWorkout:Workout)*  *setWorkouts(workouts:workout)*  *createWorkout(User\_information,Workout: Integer,Activitiy : Integer)*  *validateWorkout(User\_information,Workout, User)*  *getBalance():Integer*  *getUserBMI():Integer*  *getWorkoutListToValidate(User\_information)* |
| **Fields** | *userID:String*  *userDOB:integer*  *userHeight: Integer*  *userWeight: Integer*  *password:String*  *workouts:Integer*  *usersCanValidate: List* |

**getBalance- Description Form**

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| --- | --- |
| **Prototype** | *Integer User\_Information::getBalance ()* |
| **Purpose** | *Returns the balance of the current user* |
| **Receives** | *Void* |
| **Returns** | *TRUE – Returns the balance of the current user requested by the accesors functions.* |
| **Remarks** | *The operation may fail if there’s not balance available for the current user.* |

**updateProfile - Description Form**

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| --- | --- |
| **Prototype** | *Bool User\_Information::updateProfile (dob:String,height:Integer,weight:Integer)* |
| **Purpose** | *Update the user information fields for a user* |
| **Receives** | *dob- contains the date of birth of the user*  *height- the height of the current user*  *weight- contains the weight of the current user* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the data update information contains invalid values* |
| **Remarks** | *The operation may fail if the DOB,height or weight are invalid values for the profile.* |

**setPassword -Method Description Form**

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| --- | --- |
| **Prototype** | *Bool User\_Information::setPassword(newPassword)* |
| **Purpose** | *Add a new password for the current user* |
| **Receives** | *password-the password for the current user security settings* |
| **Returns** | *TRUE if the operation succeeded* |
| **Remarks** | *The operation may fail if the password is not valid (the password must follow security the minnimum ssecurity requirements).* |

**addBalance -Method Description Form**

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| --- | --- |
| **Prototype** | *Integer User\_Information::addBalance(balanceToAdd:Integer)* |
| **Purpose** | *Update the balance for the current user.* |
| **Receives** | *balanceToAdd- Contains the balance amount to be assigned for the current user.* |
| **Returns** | *Integer- user balance if the operation succeeded* |
| **Remarks** | *The operation may fail if the balance is not valid a valid amount (the balance must follow system policy).* |

**addWorkouts- Method Description Form**

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| --- | --- |
| **Prototype** | *Bool User\_Information::addWorkout(newWorkout: Workout)* |
| **Purpose** | *Creates and adds the Workout routine for the current user.* |
| **Receives** | *newWorkout- Contains the workout profile for the user.* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the workout routine is not valid* |
| **Remarks** | *The operation may fail if the workout routine is not a (the routine must follow system policy).* |

**getWorkouts -Method Description Form**

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| --- | --- |
| **Prototype** | *Bool User\_Information::setWorkout(workouts:Integer)* |
| **Purpose** | *Assigns the workout routine for the current user.* |
| **Receives** | *workout- Contains s list of all the workouts balance to to be assigned to the current user.* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the amount or workout values are not valid* |
| **Remarks** | *The operation may fail if the workout information doesn’t contains a valid numerical values (the workout must contain valid data).* |

**getUserBMI Method Description Form**

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| --- | --- |
| **Prototype** | *double User\_Information::getUserBMI()* |
| **Purpose** | *Returns the calculation of the Body/Mass Index of the current user.* |
| **Receives** | *none-*  *Will utilize user information from the database to calculate the current BMI index.* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the user information values required for the calculation are not available.* |
| **Remarks** | *The operation may fail if the database doesn’t have a valid numerical values for the calculation.* |

**validateWorkout Method Description Form**

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| --- | --- |
| **Prototype** | *Bool User\_Information::validateWorkout(User\_information,Workout,User)* |
| **Purpose** | *Validates the current user Workout routine base on the user workout profile and validator input* |
| **Receives** | *User Workout – Contains the user activity profile*  *\*\*ValidatorAction – Indicates if the user completed the Workout or not.* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the user information values required for the validation are not completed.* |
| **Remarks** | *Validates the workouts/activities of the user* |

**getValidatableWorkouts Method Description Form**

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| --- | --- |
| **Prototype** | *Workout User\_Information::getValidatableWorkouts(User\_information)* |
| **Purpose** | *Retrieves the list of workout routines that can be validated by the current user.* |
| **Receives** | *Workout Routine List* |
| **Returns** | *List of Workout routines that can be validated by the current user.* |
| **Remarks** | *Contains a list of workout objects of that can be validated* |

**createWorkout Method Description Form**

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| --- | --- |
| **Prototype** | *User\_Information::createWorkout(User\_information,Workout: Integer,Activitiy : Integer)* |
| **Purpose** | *Creates the workout profile for the current user* |
| **Receives** | *User\_Information:Workout – the user activities/workout profile input* |
| **Returns** | *TRUE if the operation succeeded*  *FALSE if the workout profile information values required for the validation are not completed or invalid.* |
| **Remarks** | *Creates the workout profile which will be store in the data base.* |