Fitness Center Documentation

5 Classes

* Member()
* SingleClubMember(Member())
* MultiClubMember(Member())
* Club()
* FitnessCenter() // main class

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Class Member:

Variables:

* Member\_id
* name

Methods:

\_\_Init\_\_(self, member\_id, name)

Check\_in(Club club):

Returns void

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Class Single Club Member:

-**child class** of parent class Member()

Variables:

* Member\_id
* Name
* club name

Methods:

\_\_init\_\_(self, member\_id, name, club\_name)

Check\_in(self, name, club\_name):

* calls club class -> checks if club is correct -> if correct, assign club,   
  Incorrect show correct club or cancel check in
* Club(name, club\_name)
  + TRUE: Assign club to member
  + FALSE: show correct club name, prompt user if they want to cancel checkin,

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Class Multi Club Member:

-**child class** of parent class Member()

Variables:

* Member\_id
* membership\_points
* Name

Methods:

\_\_init\_\_ -> contains membership\_points

Check\_in:

* Adds points to membership

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Class Club:

Variables:

* Name
* Address

Methods:

\_\_init\_\_ -> sets variables

Add\_member:

* Would you like to be a single or multi club member?
* If Single Club Member:
  + Call single\_club\_member.check\_in
* Multi Club Member prompts
  + Call multi\_club\_member.check\_in

Remove\_member:

* Remove member from current membership, asks if want to downgrade/upgrade
* Remove from all memberships

Display\_member:

* Displays member info: name, membership type, current club address, membership points(if multi club)

Check\_in:

* Call check\_in method in Member class
* If check in returns false, print message saying club is incorrect, do not let it return error message use try/except

Select\_member:

* Check member status: single or multi club?
* IF Single Club:
  + Generate bill of fees
* IF Multi Club:
  + Show points
  + Generate Bill of Fees

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Class FitnessClub:

\_\_init\_\_:

* setting class instances

\_\_main\_\_:

* Asks user what they want to do:
  + Add Member
    - At least 4 options to choose from or become multi club member
  + Remove Member
    - Remove member from either multi/single or both
  + Display Member
    - Displays member info
  + Check In Member
    - Checks member club
  + Select Member
    - Generates bill of fees and shows membership points

Run main