COS221a_Project_Phase_4

Welcome to the AUBG extracurricular activities database!

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In our university, there are clubs and sports. Please choose
one of the options below to get more information about them.

```
1.Search.
2.Highest budget.
3.Exit.
Choice:
```

```
Choice: 1

Please select one of the options below.
1.Clubs.
2.Sports.
Choice:
```

```
Choice: 1

Search for a club (StartUP or TedX) :
```

```
Choice: 2

Search for a sport (Griffins or Olympics) :
```

```
Search for a club (StartUP or TedX) : startup


-------------------------------------------------------------------
What do you want to know about StartUP@Blagoevgrad ?
1.Name of president
2.About the club
3.Number of members
4.Departments
5.Back to main menu.
Choice:
```

```
Choice: 3

Number of members in this club is: 36        <----

----------------------------------------------------------------
What do you want to know about StartUP@Blagoevgrad ?
1.Name of president
2.About the club
3.Number of members
4.Departments
5.Back to main menu.
Choice: 4

Departments of this club are the following: Marketing, Speakers, Sponsorship, IT    <----
----------------------------------------------------------------
What do you want to know about StartUP@Blagoevgrad ?
1.Name of president
2.About the club
3.Number of members
4.Departments
5.Back to main menu.
Choice: 2

About the club:
StartUP@Blagoevgrad is a student-run organization that brings together entrepreneurs,    <----
investors, and students who want to start their own business.

----------------------------------------------------------------
What do you want to know about StartUP@Blagoevgrad ?
```

```
Choice: 5

1.Search.
2.Highest budget.
3.Exit.

Choice:
```

```
Choice: 1

Please select one of the options below.
1.Clubs.
2.Sports.
Choice: 2

Search for a sport (Griffins or Olympics) : griffins

------------------------------------------------------------------
What do you want to know about AFC Griffins ?
1.Name of president
2.About
3.Number of members
4.Departments (for Olympics) or number of players (for Griffins)
5. Type of sport
6.Back to main menu.
Choice:
```

```
Choice: 6

1.Search.
2.Highest budget.
3.Exit.

Choice: 2

AUBG'S clubs and sports, sorted according to their total budget, from lowest to highest:

AFC Griffins  : $ 1000
StartUP@Blagoevgrad  : $ 5300
TedXAUBG  : $ 6500
AUBG Olympics  : $ 6700
-----------------------------------------------------------------

1.Search.
2.Highest budget.
3.Exit.

Choice:
```
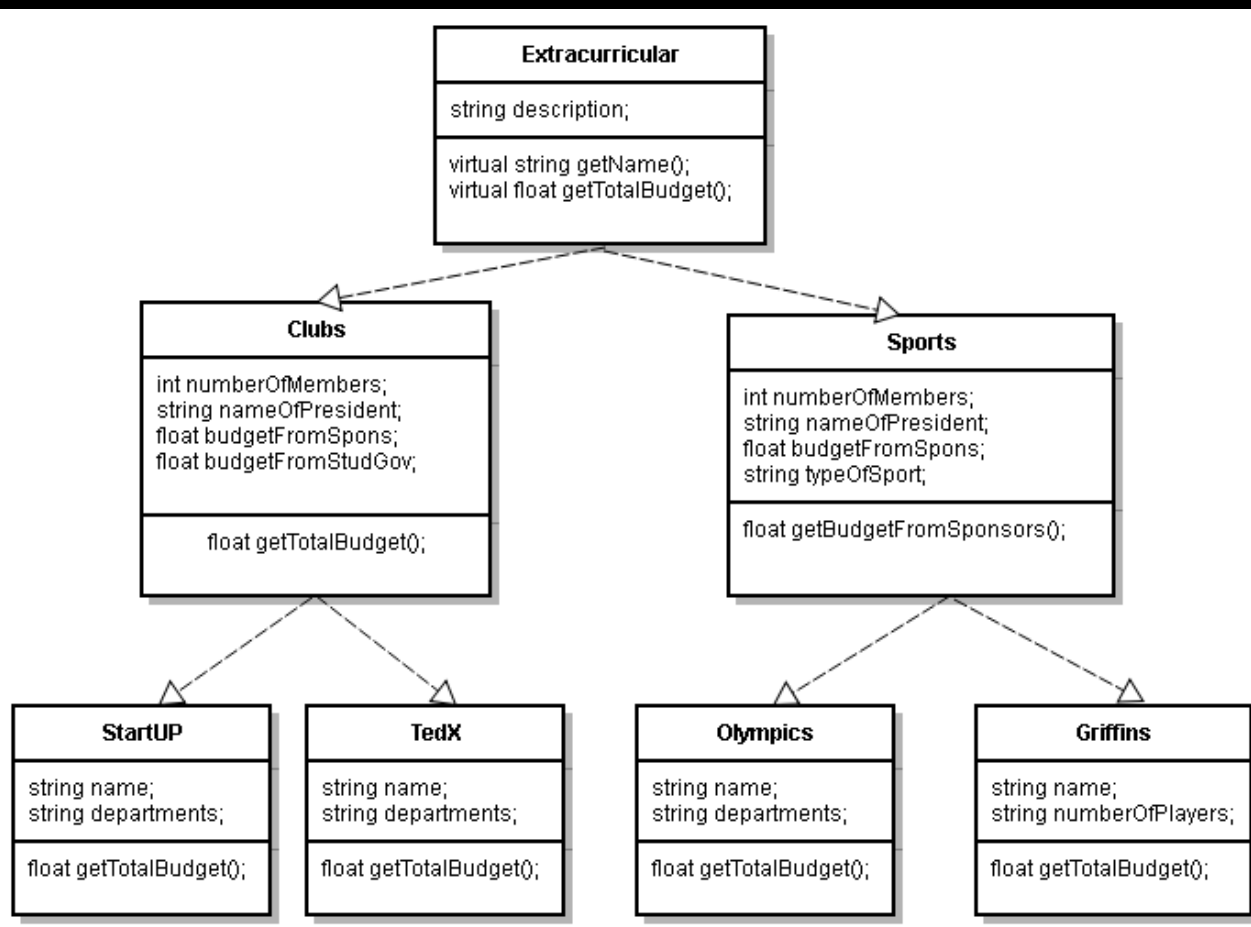
Class Hierarchy

Algorithms and data structures used:

- Algorithms:
1. QuickSort (sorting)
2. Boyer-Moore String Pattern Matching (searching)

- Data structures:
1. Vectors

- Reading from files (4 files)