Member

- firstName: String
- lastName: String

+ Member(String, String): constructor
+ getFirstName(): String
+ getLastName(): String
+ toString(): String

Student

- tScript: Transcript
- studentNum: String

+ Student(Transcript, String): constructor
+ Student(String): constructor
+ save(String): void
- load(String): void
+ getTScript(): Transcript
+ getStudentNum(): String
+ toString(): String

Captain

- email: String

+ Captain(String, boolean): constructor
+ Captain(String): constructor
+ save(String): void
- load(String): void
+ getEmail(): String
+ toString(): String

* The boolean in Captain(String, boolean) is not used *

Record

- cap: Captain
- date: CTCDate
- desc: String

+ Record(Captain, CTCDate, String): constructor
+ Record(String): constructor
+ save(String): void
- load(String): void
+ getCaptain(): Captain
+ getDate(): CTCDate
+ getDesc(): String
+ toString(): String

CTCDate

- month: int
- day: int
- week: int
- time: String
- dur: String

+ CTCDate(int, int, int, String, String): constructor
+ CTCDate(String): constructor
+ save(String): void
- load(String): void
+ getMonth(): int
+ getDay(): int
+ getWeek(): int
+ getTime(): String
+ getDuration(): String
+ toString(): String

AllStudents

- students: List<Student>
- size: int

+ AllStudents(): constructor
+ AllStudents(String): constructor
+ save(String): void
- load(String): void
+ getStudents(): List<Student>
+ getSize: int
+ addStudent(Student): void
+ toString(): String

AllCaptains

- captain: List<Captain>
- size: int

+ AllCaptains(): constructor
+ AllCaptains(String): constructor
+ save(String): void
- load(String): void
+ getCaptains(): List<Captain>
+ getSize: int
+ addCaptain(Captain): void
+ toString(): String

Transcript

- records: List<Record>
- size: int

+ save(String): void
- load(String): void
+ getRecords(): List<Record>
+ getSize: int
+ toString(): String

Club
- allStudents: AllStudents
- allCaptains: AllCaptains
+ Club(AllStudents, AllCaptains): constructor
+ Club(String): constructor
- load(String): void
+ filterStudents(String, filterType): AllStudents
+ filterCaptains(String, filterType): AllCaptains
+ searchStudent(String, searchType): AllCaptains

* Use Interfaces for filtering / searching *