- database: TrainerDatabase + addTrainer (String trainerId, String name, String email, String specialty, String

AdminRole

phoneNumber): void

- + getListOfTrainers(): ArrayList<Trainer>
- + removeTrainer(String key): void
- + logout(): void

- memberDatabase
- classDatabase
- registrationDatabase
- + addMember (String memberID, String name, String membershipType, String email, String phoneNumber, String status): void
- + getListOfMembers(): MemberDatabase
- + addClass(String classID, String className, String trainerID, int duration, int maxParticipants): void
- + getListOfClasses(); classDatabase
- + registerMemberForClass(String memberID, String classID, LocalDate registrationDate): boolean

TrainerRole

- + cancelRegistration (String memberID, String classID); boolean
- + getListOfRegistrations (): ArrayList<>
- + logout(): void

Trainer

- trainerld: String name: String
- email: String
- speciality: String
- phoneNumber: String
- + lineRepresentation(): String
- + getSearchKey(): String

- records: ArrayList<Trainer>

- filename: String
- + readFromFile(); void
- + createRecordFrom(String line): Trainer

TrainerDatabase

- + returnAllRecords(): String + contains(String key): boolean
- + getRecord(String key): Trainer
- + insertRecord(Trainer record): void
- + deleteRecord(String key): void
- + saveToFile(): void

Member

- memberID: String
- name: String
- membershipType: String
- email: String
- phoneNumber: String
- status: String
- + lineRepresentation(): String
- + getSearchKey(): String

MemberDatabase

- records: ArrayList<Member>
- filename: String
- + readFromFile(): void
- + createRecordFrom(String
- line): Member + returnAllRecords(): String
- + contains(String key): boolean
- + getRecord(String key): Member
- + insertRecord(Member record): void + deleteRecord(String key): void
- + saveToFile(): void

- classID: String
- className: String
- trainerID: String - duration: int
- availableSeats: int
- + getAvailableSeats(): int
- + setAvailableSeats(int availableSeats): void
- + lineRepresentation(): String
- + getSearchKey(): String

MemberClassRegistration

- memberID: String
- classID: String status: String
- registrationDate: LocalDate
- + getMemberID(): String
- + getClassID (): String
- + getRegistrationDate(): LocalDate
- + getSearchKey(): String
- + lineRepresentation(): String

ClassDatabase

- records: ArrayList<Class>
- filename: String
- + readFromFile(): void
- + createRecordFrom(String line): Class
- + returnAllRecords(): String
- + contains(String key): boolean
- + getRecord(String key): Class + insertRecord(Class record); void
- + deleteRecord(String key): void
- + saveToFile(): void

MemberClassRegistrationDatabase

- records: ArrayList< MemberClassRegistration >
- filename: String
- + readFromFile(): void
- + createRecordFrom(String
- line): MemberClassRegistration
- + returnAllRecords(): String + contains(String key); boolean
- + getRecord(String key): MemberClassRegistration
- + insertRecord(MemberClassRegistration record): void + deleteRecord(String key): void
- + saveToFile(): void