D1 UML

«Abstract»
User

- \# firstName: String
- \# lastName: String
- \# email: String
- \# password: String
- \# phoneNumber: String

- + getFirstName(): String
- + getLastName(): String
- + getEmail(): String
- + getPhoneNumber(): String
- + setFirstName(String): void
- + setLastName(String): void
- + setEmail(String): void
- + setPassword(String): void
- + setPhoneNumber(String): void
- + login(String, String): boolean
- + logoff(): void
- + displayWelcomeMessage(): void
- + getRole(): String
- + update(User): void

Database<E>

- − TAG: String
- − userClass: Class<E>
- − db: Firebase Firestore
- − users: ArrayList<E>
- − dbCollection: String

- + retrieveAllUsers(): void
- + retrieveUser(String): void
- + getUser(String): E
- + createUser(E): String
- + updateUser(E): void
- + deleteUser(String): void

Tutor

- − highestDegree: String
- − coursesOffered: List<String>

- + getHighestDegree(): String
- + getCoursesOffered(): List<String>
- + setHighestDegree(String): void
- + setCoursesOffered(List<String>): void

Student

- − programOfStudy: String

- + getProgramOfStudy(): String
- + setProgramOfStudy(String): void

Administrator