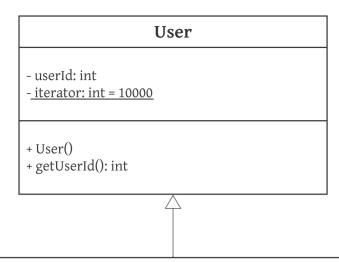
UML for User part

Zhen Cheng, Qing Lyu



PermanentUser

- email: String
- password: String
- userType: String
- + PermanentUser(email: String, password: String, userType: String)
- + getEmail(): String
- + getPassword(): String
- + getUserType(): String
- + setEmail(email: String): void

+ setPassword(password: String): void

UserReadWriter

- filePath: String
- um: UserManager
- + UserReadWriter(filePath: String, um: UserManager)
- + readSerFile(): void
- + saveToFile(): void

UserManager

- permanentUsers: ArrayList<PermanentUser>
- trialUsers: ArrayList<Users>
- + UserManager()
- + setPermanentUsers(permanentUsers: ArrayList<PermanentUser>):
- + getPermanentUsers(): ArrayList<PermanentUser>
- + getTrialUsers(): ArrayList<User>
- + createUser(email: String, password: String, userType: String): int + changeEmail(id: int, newEmail: String): boolean
- + changePwd(id: int, password: String): void
- + checkIdPwd(id: int, password: String): boolean
- + getUserType(id: int): String
- + getUserId(email: String): int
- + checkId(id: int): boolean

LoginSystem

- um: UserManager
- urw: UserReadWriter
- + LoginSystem(um: UserManager)
- + userCreation(email: String, password: String, userType: String): int
- + idLogin(id: int, password: Stirng): boolean
- + emailChange(id: int, email: String): boolean
- + pwdChange(id: int, password: String): void
- + saveInfo(): void
- + getType(id: int): String
- + getId(String email): int
- + idExist(id: int): boolean