

# Examiner

The goal of the project is to provide easy and convenient way for teacher/lecturer to test their students and for student to pass their tests. System allows to create and update tests, unite students to groups, estimate student work and pass tests.

**Roles:** Guest, Student, Teacher, Admin

| Role    | Description   |
|---------|---|
| Guest   | User that isn't logged in. Can sign up and log in.  |
| Student | Pass tests, joins to group, see group results, appeals question/result, get reminder about near test. Also can get info about his/her account, change password or delete his/her account.                                   |
| Teacher | Create/update/delete tests, create group of students or using existed, get detailed results of passed test, accepts or rejects appeals. Also can get info about his/her account, change password or delete his/her account. |
| Admin   | Can view info about users. Has ability to lock/unlock users with option to notify them via email.   |

## Account Management System

| Nº | Role  | Use case | Description             | Action name |
|----|-------|----------|-------------------------|-------------|
| 1  | Guest | Sign up  | Sign up in system       | SignUp      |
| 2  |       | Log in   | Log in to the system    | LogIn       |
| 3  | User  | Log out  | Log out from the system | LogOut      |

## User Management System

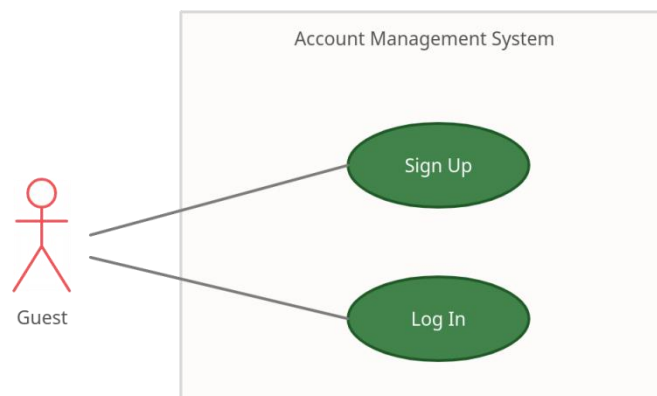
| Nº | Role    | Use case                             | Description  | Action name  |
|----|---------|--------------------------------------|--|--------------|
| 1  | Teacher | Create group                         | Unite students to group seen only by herself/himself | CreateGroup  |
| 2  | Admin   | Lock user                            | Make user temporary unavailable to login             | Ban          |
| 3  |         | Unlock user                          | Restore user availability to login                   | UnBan        |
| 4  |         | View statistics about users accounts | View all the details about users accounts            | ViewUserInfo |

## Test Management System

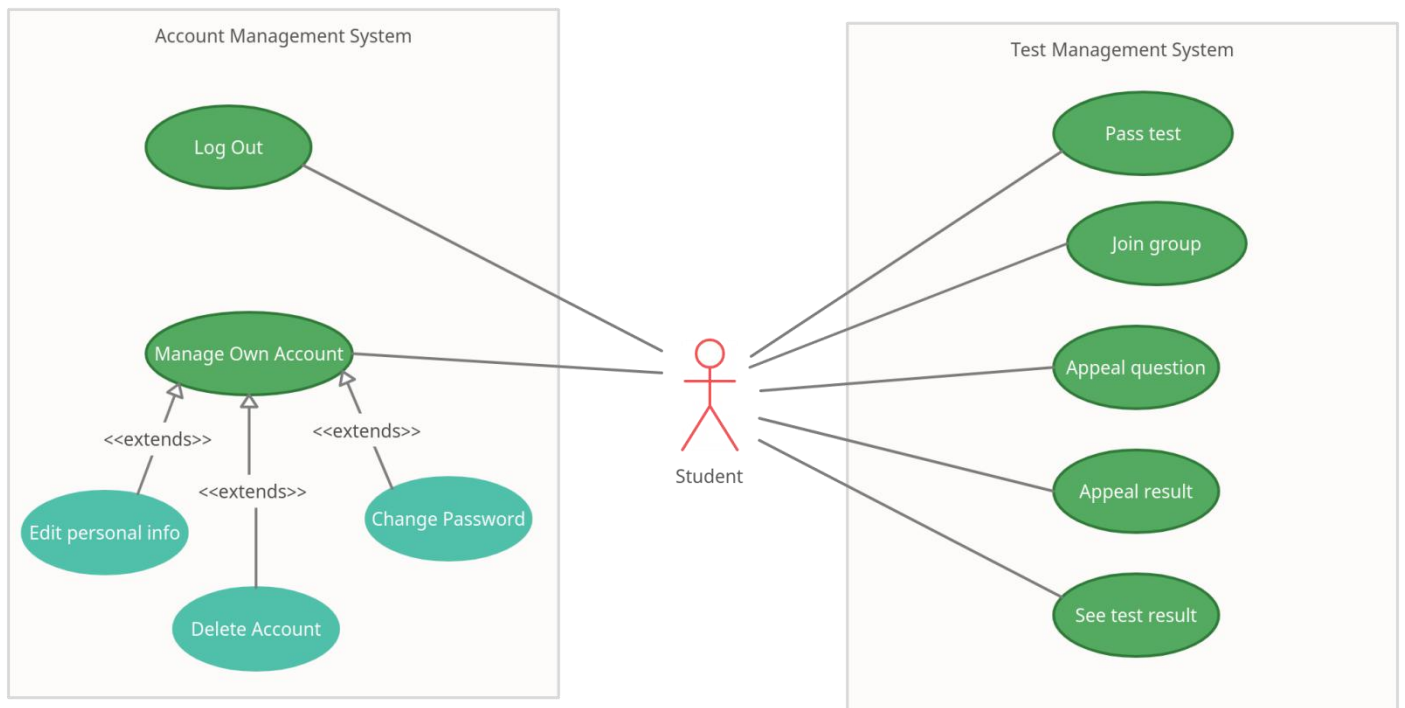
| Nº | Role    | Use case         | Description   | Action name      |
|----|---------|------------------|---|------------------|
| 1  | Student | Join group       | Join to group with code given by teacher                  | JoinGroup        |
| 2  |         | Pass test        | Pass test created by teacher                              | PassTest         |
| 3  |         | See test result  | See result of passing test for each group member          | SeeResult        |
| 4  |         | View history     | See results of passed test                                | ViewHistory      |
| 5  |         | Appeals question | Appeals question from test to teacher, describing reason  | AppealQuestion   |
| 6  |         | Appeals result   | Appeals result of test to teacher, describing reason      | AppealTestResult |
| 7  | Teacher | Create test      | Create test in system                                     | CreateTest       |
| 8  |         | Update test      | Update test in system                                     | UpdateTest       |
| 9  |         | Delete test      | Delete test from system                                   | DeleteTest       |
| 10 |         | Get test result  | Gets the result of the test passed by the selected group  | GetTestResult    |
| 11 |         | Create group     | Create group of students by itself or giving joining code | CreateGroup      |
| 12 |         | Accept appeal    | Accept appeal of student                                  | AcceptAppeal     |
| 13 |         | Reject appeal    | Reject appeal of student                                  | RejectAppeal     |

## Use case diagrams

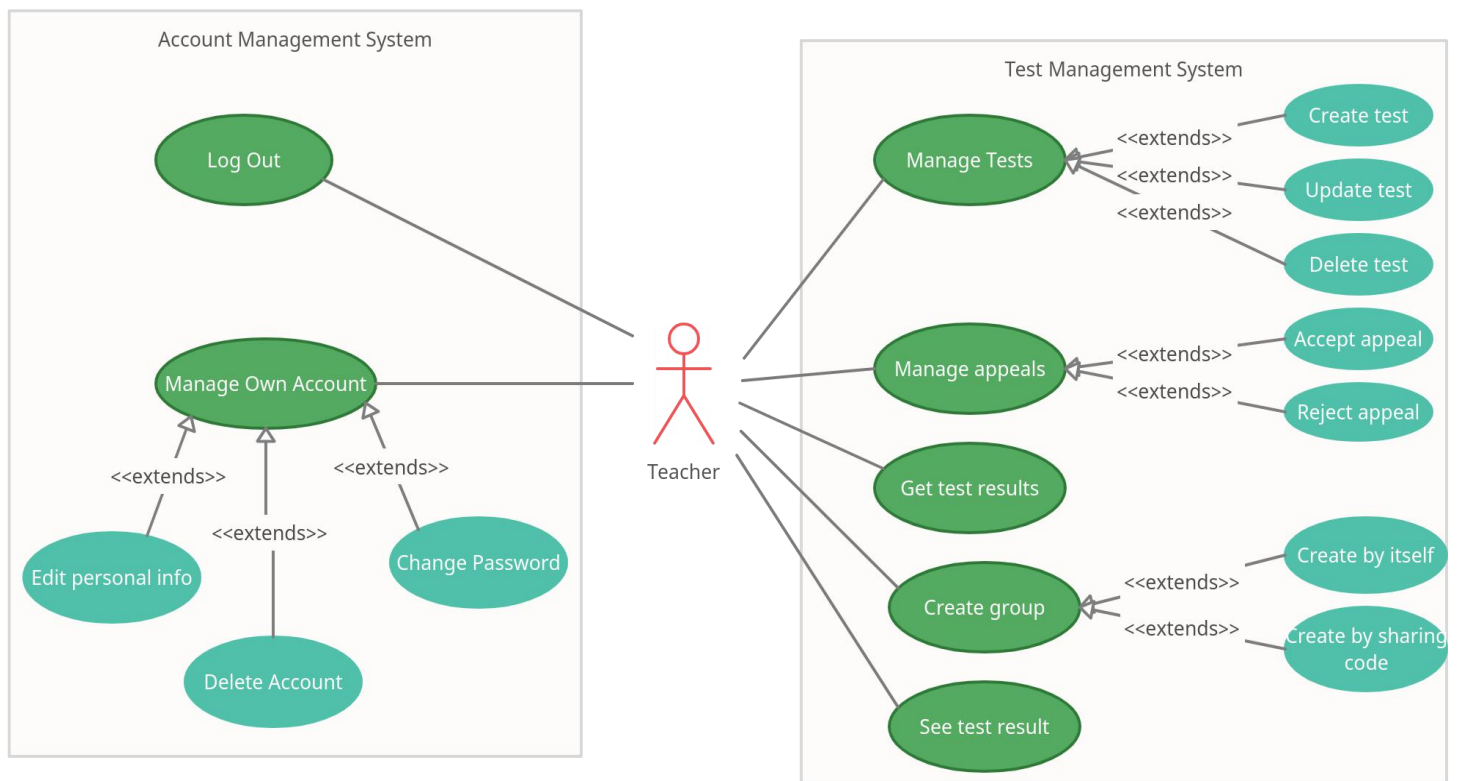
Guest role use case diagram:



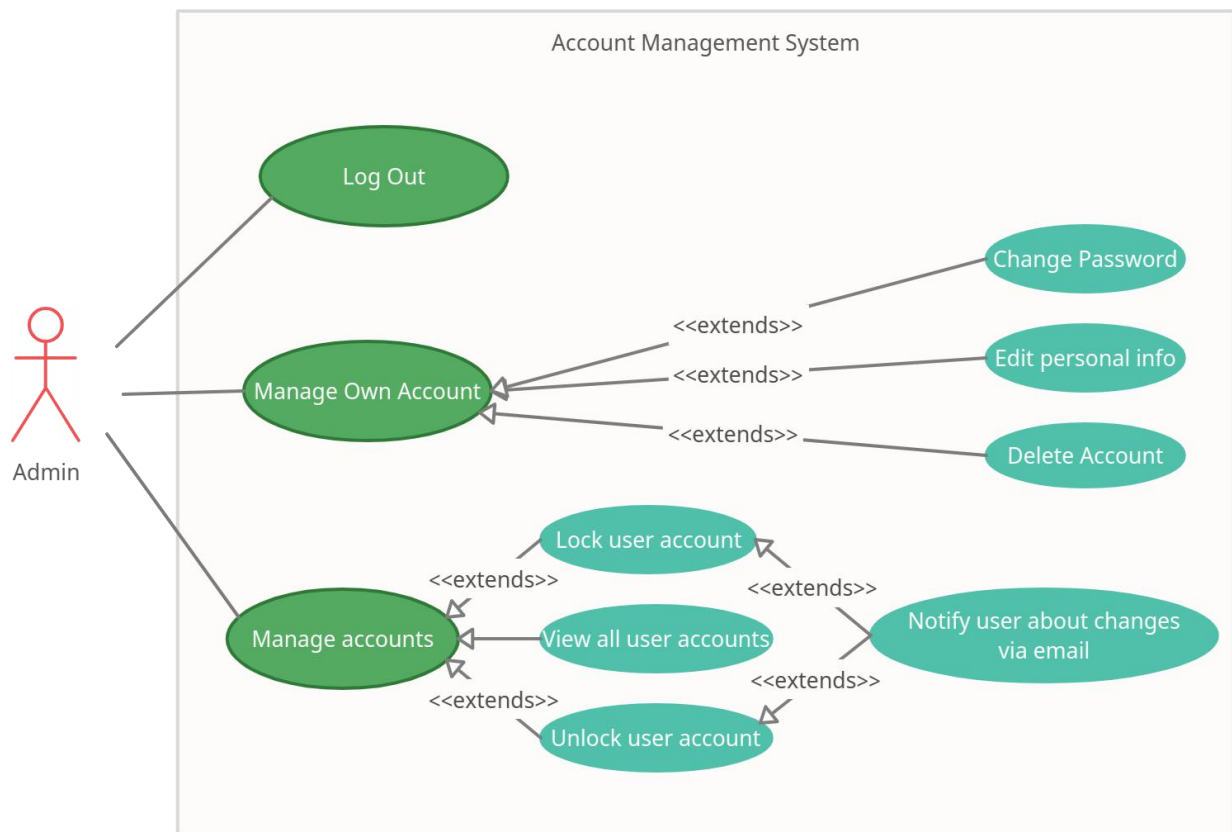
## Student role use case diagram:



## Teacher role use case diagram:



## Admin role use case diagram:



# Sequence diagram

