**Command Manual**

Errors common in all commands:

* Current user lacks permissions - “Failed. Restricted action”
* Invalid parameters • - “Failed. Invalid parameters”
* No user currently logged in • “Failed. No user currently logged in”
* The command does not exist • “Failed. No such command”

1. login <username> <password>
   1. Logs in user • “<username> logged in”
   2. User already logged in • “Failed. User currently logged in”
   3. Username or password is invalid • “Failed. Username or password invalid”
   4. No such account • “Failed. No such username”
2. logout
   1. Logs out current user • “Goodbye”
   2. No user currently logged in • “Failed. No current user to log out”

*Courses*

1. createCourse <unique course ID> <# of lectures> <# of labs> <course name>
   1. Creates a new course with the given course number, name, lectures and labs • “Course <course name> successfully added”
   2. Course already exists • “Failed. Course already exists”
2. deleteCourse <unique course ID>
   1. Deletes course associated with unique course ID • “Course <course name> successfully removed”
   2. Course doesn’t exist • “Failed. Course doesn’t exist”
3. viewCourse <unique course ID>
   1. Prints out information of course associated with unique course ID • “Course ID: <unique course ID> Name: <course name> # of Lectures: <# of lectures> # of Labs: <# of labs>”
   2. Course doesn’t exist • “Failed. Course doesn’t exist”
4. viewLecture <unique lecture ID>
   1. Prints out information of lecture associated with unique lecture ID • “Lecture ID: <unique lecture ID> Section Name: <section name> Instructor: <instructor name>”
   2. Lab doesn’t exist • “Failed. Lecture section doesn’t exist”
5. viewLab <unique lab ID>
   1. Prints out information of lab associated with unique lab ID • “Lab ID: <unique labID> Section Name: <lab name> TA: <TA name>”
   2. Lab doesn’t exist • “Failed. Lab section doesn’t exist”

*Account*

1. createAccount <username> <password> <account permissions>
   1. Creates a new user with the given username name and password • “Account <username> successfully added”
   2. Username already exists • “Failed. Username currently in use”
2. deleteAccount <username>
   1. Removes the account associated with username • “Account <username> successfully removed”
   2. Username doesn’t exist • “Failed. Username doesn’t exists”
   3. Username is the account currently logged in • “Failed. Cannot delete logged in account”
3. changePassword <username> <new password>
   1. Sets new password for the user • “<user> password successfully changed”
   2. Username doesn’t exist • “Failed. Username doesn’t exist”
4. editEmail <username> <new email>
   1. Edits email of account specified • “Email successfully changed”
   2. Username doesn’t exist • “Failed. Username doesn’t exist”
5. editPhoneNumber <username> <new phone number>
   1. Edits phone number of account specified • “Phone number successfully changed”
   2. Username doesn’t exist • “Failed. Username doesn’t exist”
6. editAddress <username> <new address>
   1. Edits address of account specified • “Address successfully changed”
   2. Username doesn’t exist • “Failed. Username doesn’t exist”
7. viewAccount <username>
   1. Displays username public information • “<username> <name> <email> <office hours>”
   2. If logged in user is supervisor/admin/viewing own account, displays all username information • “<username> <name> <email> <phone> <address> <office hours>”
8. viewUsers
   1. Displays username and name of all users in database • “<username1> <name1> <username2> <name2>…"

*Assign*

1. assignInstructor <username> <unique lecture ID>
   1. Assigns instructor to specified course and lecture section• “<username> successfully assigned to lecture”
   2. Course doesn’t exist • “Failed. Course does not exist”
   3. Username is not an instructor • “Failed. Username is not an instructor”
   4. Username doesn’t exist • “Failed. Username doesn’t exist”
2. assignTA <username> <unique course ID>
   1. Assigns TA to the specified course • “<username> successfully assigned to course”
   2. Course doesn’t exist • “Failed. Course does not exist”
   3. Username already assigned to course • “Failed. Username already assigned to course”
   4. Username is not a TA • “Failed. Username is not a TA”
   5. Username doesn’t exist responds “Failed. Username doesn’t exist”
3. assignTAtoLab <username> <unique lab ID>
   1. Assigns the TA to the unique lab ID • “TA successfully assigned to lab section”
   2. Username is not a TA • “Failed. Username is not a TA”
   3. Username doesn’t exist • “Failed. Username doesn’t exist”
   4. Username not assigned to parent course • “Failed. Username is not assigned to course”
   5. Unique lab ID already has TA • “Failed. Lab already assigned TA”

**Unique Course ID#**

First 2 numbers 00-99 = class subject (ex: 01 = computer science | 02 = electrical engineering)

Next 3 numbers 000-999 = class level

**Permissions Identification**

4 digit binary code: A3 A2 A1 A0

A3: supervisor

A2: admin

A1: instructor

A0: TA

Description: This application should be used by the faculty of a university to access the courses they are assigned to and also for the supervisors of the departments to create the courses and assign instructors and TA’s accordingly.