

# Assessment SRS

## Terms

`begin semester` - first semester for which the object exists

`current` - semester considered active for a program, newly created offerings will be for the current semester, and when an `end semester` is null, it will be this semester

`end semester` - last semester for which the object exists; can be null, and in this case the value of `current semester` for the program of the object is used

`interval` - the semesters between a `begin` and `end semester`, inclusive

`program` - program accredited by ABET

## Roles

`super user` - generates initial semester, programs and users to be the administrator of a program. Can generate more semesters, do CRUDL operations on programs, users, outcomes and courses, and can assign permissions to users. Can also do CRUDLE operations on outcome prefixes and the subject for courses.

`administrator of a program` - maintains the outcomes and courses associated with the program and what course will measure what outcome. Can also generate more semesters, do CRUDL operations on outcomes and courses, program outcomes and courses, program users, and can assign permissions for a user to be a `semester administrator`, `observer` or `faculty` for the program.

`semester administrator of a program` - maintains program offerings, creating the offering, assigning a faculty member to the offerings and adding/removing students from the offering. Can also generate more semesters, do CRUDL operations on program outcomes, courses and users, and can assign permissions for a user to be a `faculty` for the program.

`faculty of a program` - maintains assessments of the offerings they teach, doing CRUDL operations on assessments, adding/removing students from the offerings, assigning scores to those students, and viewing C.O.R.E. reports for those offerings.

`observer of a program` - can view all objects and reports for the program, but with student names redacted.

## Typical Workflow

A super user:

1. generates an initial semester and creates a program with that initial semester
2. creates outcome prefixes and subjects for that program
3. creates a user to be an administrator of the program
4. Maybe create outcomes and courses

An administrator of a program:

1. may create outcomes, courses, users and generate semesters
2. can update the semester associated with the program
3. assigns users the roles of semester administrator, faculty, observer for the program
4. associates outcomes and courses with the program
5. associates program courses with the program outcomes that offerings of the course will measure

A semester administrator of a program:

1. may generate semesters
2. can update the current semester associated with the program
3. creates offerings of a program course; the offering will be for the current semester, and a program faculty member will be assigned to teach it
4. can add and remove students to and from the offering

A faculty member of a program:

1. can add and remove students to and from the offering they teach
2. creates assessments for the offerings they teach
3. assigns scores to the students for those assessments
4. views the C.O.R.E. report for the offering

An observer of a program:

1. can view the reports associated with the program
2. can view all other objects associated with the program, but with student names redacted

## User Stories for Database Semesters

### *list all semesters*

As a user I may want to see a list of all semesters in the system.

inputs: none

outputs: list of the names of all semesters in the system

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### *generate new semester*

As a user with permission to create new semesters, I want a new semester generated in such a way that the semester information never needs to be updated or deleted.

inputs: none

outputs: the id of the newly created semester

sideeffect: a new semester exists within the system

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### *list semesters in interval*

As a developer I need to know the semesters which fall within a semester interval. For example, when a user setting the semester interval for an object, the user will specify the begin semester, and a list of all possible end semesters needs to be displayed.

inputs: interval, which consists of a begin and end semester (not null)

outputs: list of the names of all semesters which fall within the interval, inclusive.

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*semester interval is included*

*get current*

*update current*