2.1.2 Use Case Diagram
2.2 Scenarios and Activity Diagrams

2.2.1 Preview Survey

Use Case: Preview survey

Iteration: 2, last modification: November 8 by Charles Korb

Primary Actor: Faculty member or administration

Goal in Context: To view a survey and the questions within before it is finished and made ready for students

Preconditions:
1. User must be an authorized Faculty member or administration member

Trigger: A faculty or administration member wants to have a preview a survey, perhaps to see the questions those higher up the chain of command have chosen

Scenario:
1. A user logs in
2. The user selects a survey
3. The user selects preview survey
4. A preview version of the survey is displayed

Exceptions:
1. The user has the wrong ID
2. System is down.

Priority: Low priority as it is nonessential

When available: Before all the surveys are open

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication, mass email system

Open issues:
N/A
Enter password and ID

Valid Password and ID

Select function

View Survey

Select survey to preview

Exit

Select another function

Other functions may also be selected

Invalid Password

Prompt for reentry

Tries remain

No tries remain
2.2.2 Submit Survey

Use Case: Submit survey

Iteration: 2, last modification: November 8 by Charles Korb

Primary Actor: Student

Goal in Context: to submit a survey that has been filled out

Preconditions:
1. User must be an student
2. User must have filled out at least multiple choice part of the survey

Trigger: The student has completed the survey and wants to submit it

Scenario:
1. A student user logs in
2. The user selects view surveys
3. The user selects which survey to take and fills it out
4. The user selects submit
5. The survey is submitted

Exceptions:
1. The user has the wrong ID
2. All of the multiple choice questions are unanswered
3. System is down.

Priority: High priority as it is essential

When available: Continuously once surveys are open

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT, Admissions and Records

Channels to secondary actors: Log in authentication, checking student enrollment

Open issues:
N/A
2.2.3 Suggest Question

Use Case: Suggest addition/removal of question

Iteration: 2, last modification: November 8 by Charles Korb

Primary Actor: Anyone with a university logon

Goal in Context: to submit a survey that has been filled out

Preconditions:
  1. User must have a logon

Trigger: The user feels a specific question should be added or disabled

Scenario:
  1. A user logs in
  2. The user selects suggest addition/removal
  3. The user selects a question to remove or enters a question to add
  4. The suggestion is forwarded to the faculty senate committee

Exceptions:
  1. The user has the wrong ID
  2. System is down.

Priority: low priority as it is nonessential

When available: Continuously

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
N/A
Enter password and ID

Valid Password and ID

Select function

Other functions may also be selected

Disable

Add question

Select question to be disabled

Type in question to be added

Exit

Prompt for reentry

Invalid Password

Tries remain

No tries remain

Other functions may also be selected

Select another function

Select question to be disabled

Type in question to be added

Exit
2.2.4 Display Report

Use Case: View Results/Generate Reports

Iteration: 2, last modification: November 8 by Charles Korb

Primary Actor: Administrator, faculty

Goal in Context: To view the results of surveys from past data

Preconditions:
1. User must be authorized
2. The desired reports must exist

Trigger: The reports need to be viewed either to evaluate the effectiveness of a professor or survey question

Scenario:
1. An authorized user logs in
2. A course is selected (only within the purview of the user)
3. If administrator, faculty member can be selected
4. Date range and type of display selected (average scores or multiple reports)
5. Reports displayed

Exceptions:
1. The user has the wrong ID
2. Data unavailable
3. Course
4. System is down.

Priority: High priority as it is an essential function

When available: Continuously

Frequency of use: Medium

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
N/A
2.2.5 Submit Question

Use Case: Add a question to a survey currently under construction

Iteration: 2, last modification: November 9 by Charles Korb

Primary Actor: Faculty, Provost, Deans

Goal in Context: To add a question from the database to a survey currently under construction

Preconditions:
1. User must be a faculty member, provost, or dean
2. User must be adding questions to a survey that they have the authority to add questions to

Trigger: A user wants to add a question to a survey under construction

Scenario:
1. A faculty member, a dean, or the provost logs in
2. The user selects add question to survey.
3. The user selects a question from list of nondisabled questions in the database
4. The question is added to the survey (for the provost it goes to all surveys, for the dean all surveys in the college, and for the faculty member just the surveys for their class)

Exceptions:
1. The user has the wrong ID
2. There are no surveys that need questions.
3. System is down.

Priority: High priority as it is one of the basic functions.

When available: Continuously before the last week of the semester or all surveys are open.

Frequency of use: Medium frequency

Channel to Actor: Via online system

Secondary Actors: OIT, Admissions and Records

Channels to secondary actors: Log in authentication, authenticate what classes they are teaching

Open issues:
N/A
2.2.6 Check for Incentives

Use Case: Display the students who have taken all of their surveys

Iteration: 2, last modification: November 8 by Charles Korb

Primary Actor: Faculty Senate Committee

Goal in Context: To show the faculty senate committee the students who have taken all their surveys

Preconditions:
1. User must be an authorized faculty senate committee member

Trigger: The semester and the faculty senate wishes to administer an incentive to the students who have taken all their surveys

Scenario:
1. A Faculty senate committee member logs in
2. The user selects view incentives
3. The students names and IDs are displayed

Exceptions:
1. The user has the wrong ID
2. System is down.
3. Surveys not all closed yet.

Priority: low priority as it a nonessential feature

When available: After the completion of a semester

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
N/A
2.2.7 Submit Freeform Question

Use Case: Make freeform question

Iteration: 1, last modification: October 31 by Charles Korb

Primary Actor: Faculty member

Goal in Context: To add a freeform question to a survey under construction

Preconditions:
1. User must be an authorized Faculty member
2. User must be teaching the class that the question is for

Trigger: A faculty member wants to have a question on a survey that is not in the database

Scenario:
1. A Faculty member logs in
2. The user selects which survey they want to edit
3. The user selects add question
4. The user types in the question
5. The question is added to the survey

Exceptions:
1. The user has the wrong ID
2. System is down.
3. The user has no surveys that have yet to be opened
4. User not teaching the class that the question is for

Priority: High priority as it is essential

When available: Before all the surveys are open

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
N/A
2.2.8 Add/Disable Questions In Database

Use Case: Add or disable a question in the database of questions that are used in surveys

Iteration: 1, last modification: October 29 by Charles Korb

Primary Actor: Faculty Senate Committee

Goal in Context: To modify the question database either by adding or disabling questions

Preconditions:
1. User must have Faculty Senate Committee log in privileges.

Trigger: The faculty senate wants to add a question to the database.

Scenario:
1. A member of the Faculty Senate Committee logs in
2. The member selects add question or disable question.
3. The member types in the question to be added or selects the question to be disable.
4. The question is added or disabled to the database.

Exceptions:
1. The user has the wrong ID
2. The user tries to submit a blank question.
3. System is down.

Priority: Medium priority as it is important but not one of the basic functions.

When available: Continuously.

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
1. Is there any way to prevent faculty senate committee members from adding or disabling a question without the approval of the rest of the committee?
2.2.9 Generate Survey

Use Case: Generate survey

Iteration: 1, last modification: October 30 by Charles Korb

Primary Actor: Faculty member

Goal in Context: To open a survey to students for taking

Preconditions:
1. User must be an authorized Faculty member
2. Provost, dean, and faculty member must all have submitted questions

Trigger: A faculty member has finished choosing questions and is opening the survey for takers

Scenario:
1. A Faculty member logs in
2. The user selects view surveys
3. The user selects generate survey
4. The survey is generated and students receive a mass email to take it

Exceptions:
1. The user has the wrong ID
2. The provost, faculty, or dean has not submitted all of their questions
3. System is down.

Priority: High priority as it is essential

When available: Before all the surveys are open

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT; Admissions and Records

Channels to secondary actors: Log in authentication, mass email system; course authentication

Open issues:
N/A
Enter password and ID

Valid Password and ID

Select function

View Surveys

Survey to be generated selected

Prompt for reentry

Invalid Password

Tries remain

No tries remain

Other functions may also be selected

Select another function

Exit
2.2.10 Display Number of Takers

Use Case: Display number of students who have taken particular survey

Iteration: 1, last modification: October 30 by Charles Korb

Primary Actor: Faculty member

Goal in Context: To view the number of students who have currently taken a survey

Preconditions:
2. User must be an authorized Faculty member
3. User must have open surveys

Trigger: A faculty member wants to see how many students have taken a particular survey

Scenario:
5. A Faculty member logs in
6. When the faculty member logs in their surveys are displayed
7. The surveys and the number of takers are displayed

Exceptions:
3. The user has the wrong ID
4. The user has no open surveys
5. System is down.

Priority: Low priority as it is nonessential

When available: While there are open surveys

Frequency of use: Low frequency

Channel to Actor: Via online system

Secondary Actors: OIT

Channels to secondary actors: Log in authentication

Open issues:
N/A
Enter password and ID

Valid Password and ID

Select function

View Surveys

Number of takers for each survey displayed

Tries remain

Prompt for reentry

Invalid Password

No tries remain

Exit

Select another function

Other functions may also be selected
2 Object Oriented Analysis

2.1 Data Model

2.1.1 Class Diagram

[Diagram of class relationships with labels and arrows indicating relationships between classes such as Class, Faculty, User, Dean, Provost, Survey, QuestionPool, Submission, Results, Student.}

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2.2 Functional Modeling and Information Flow

2.2.1 General Functions

2.2.1.1 Logout
2.2.2 Database Modification

2.2.2.1 Add/Disable Questions in Database

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2.2.2.2 Suggest Question

![Diagram of Suggest Question process]
2.2.3 Survey Modification

2.2.3.1 Submit Question

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2.2.3.2 Preview Survey
2.2.4 Administrative Functions

2.2.4.1 Check for Incentives
2.2.5 Faculty

2.2.5.1 Display Number Of Takers
2.2.5.2 Generate Survey
2.2.5.3 Submit Freeform Question

![Diagram showing the process of submitting a freeform question]
2.2.5.4 Display Report
2.2.6 Student

2.2.6.1 Submit Survey