



BLG 468E

OBJECT-ORIENTED

MODELLING AND DESIGN

CRN: 22538

INSTRUCTOR: FEZA BUZLUCA

ASSIGNMENT #1

Submission Date: 22.02.2015

STUDENT NAME: TUĞRUL YATAĞAN

STUDENT NUMBER: 040100117

Use Case UC1: Add/Drop Lecture

Scope: Student Administration System

Primary Actor: Student

Stakeholders and Interests:

- Student: Wants accurate, fast add or drop lecture and no errors.
- University: Wants to accurately record add drop transactions

Preconditions: Add/Drop operation is available.

Post conditions: Add or drop is done. Student is registered or dropped lecture. Lecture's registered student number is updated.

Main Success Scenario:

1. Student open university student information system web page.
2. System prompts user login page with User ID and PIN area.
3. Student selects Student ID and enters students PIN.
4. System validates student and opens student information system main page.
5. Student clicks "Student Service" tab.
6. System opens "Student Service" page with "Registration" menu.
7. Student clicks "Registration" menu.
8. System opens "Registration" page with "Select Term" and "Add/Drop" menu.
9. Student clicks "Select Term" menu.
10. System opens "Select Term" page with "Select a Term" drop down menu.
11. Student selects term.
12. System reopens "Registration" page with "Select Term" and "Add/Drop" menu.
13. Student clicks "Add/Drop" menu.
14. System opens "Add/Drop" page with empty CRN boxes and (if any) already registered lectures with each lecture has an action drop down menu.
15. Student enters CRNs into CRN boxes or selects an action on (if any) already registered lectures.
16. System increments or decrements selected lectures student number.
17. System registers student to lecture.
18. System records registration operation.
19. System reopens "Add/Drop" page with added or dropped lectures.
20. Student exits website.

Extensions:

- 1-15. Students cancel registration.
 1. Student exits system.
4. Invalid Student ID or PIN:
 1. System gives error and rejects login.
 2. Student responds to error:
 - 2a. Student reenters Student ID and PIN.
 - 2b. Student exits system.

- 13a. Student didn't select term:
 - 1. System gives a warning.
 - 2. System redirects student to "Select Term" page (stage 10).
- 13b. Selected term is not available for Add/Drop:
 - 1. System gives a warning.
 - 2. System redirects student to "Select Term" page (stage 10).
- 13c. Add/Drop menu is not active at that time:
 - 1. System gives an error.
 - 2. System redirects students to "Registration" page (stage 8).
- 15a. Student did not entered anything:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page (stage 14).
- 15b. Add/Drop operation deadline has passed:
 - 1. System gives an error.
 - 2. System redirects students to "Registration" page (stage 8)
- 15c. Lecture is full:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).
- 15d. CRN is invalid:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).
- 15e. Student reached maximum credits:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).
- 15f. Student couldn't lay down lecture's prerequisites:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).
- 15g. Student already registered entered lecture:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).
- 15h. Student entered same lecture multiple time:
 - 1. System gives an error.
 - 2. System redirects students to "Add/Drop" page with warning (stage 14).

Use Case UC2: Advisor Approval

Scope: Student Administration System

Primary Actor: Advisor

Stakeholders and Interests:

- Advisor: Wants accurate approved lectures by advisor.
- Student: Wants accurate, advisor lecture and no errors.
- University: Wants to accurately record add, drop and approve transactions

Preconditions: Add or drop is done by student. Advisor is identified and authenticated.

Post conditions: Advisor approves students registered lectures. Student's approval status is updated.

Main Success Scenario:

1. Student goes to advisor for approval.
2. Advisor opens university student information system web page.
3. Advisor clicks student's operation tab.
4. System opens student's operation page with Student ID area.
5. Advisor asks student to student's ID.
6. Advisor enters student's ID.
7. System opens student's operation page with student registration approval menu.
8. Advisor clicks student registration approval.
9. System open student registration approval page.
10. Advisor approves student's registration status.
11. System records student's approved registration status.
12. Advisor exits webpage.
13. Student leaves.

Extensions:

- 2-10. Advisor or student wants to cancel approval.
 1. Advisor cancels approval, advisor exits system.
 2. Student leaves.
- 6a. Invalid Student ID:
 1. System gives error and rejects student ID.
 2. Advisor responds to error:
 - 2a. Advisor reenters Student ID.
 - 2b. Advisor exits student's operation page.
- 6b. Advisor is not student's advisor:
 1. System gives error and rejects student ID.
 2. Student leaves.
8. Student registration approval deadline has passed:
 1. System gives an error.
 2. Student leaves.
10. Advisor didn't approve student's registration status.
 1. Advisor exits student's operation page.
 2. Advisor scolds student.
 3. Student leaves.

Open Issues:

- What are the advisor's student operation page elements?