

## *Before semester starts*

1. System has a default admin login id and password.
2. Admin take lists from a BILSIS like system. Lists contain:
3. All department ids and names.
4. All course ids and other information for all departments.
5. All instructors' names, emails and associated department ids and associated course ids.
6. All students' names, emails and associated department ids and associated course ids.
7. All department managers' names, emails and associated department ids.
8. In the beginning, instructors and department managers are first sent a unique *username* and a random *password* to their emails in the list. Rows of the **AcademicPersonnel** table are created by admin.
9. Admin adds some or all of the courses to departments using this list. Rows of the **Course** table are created by the admin. (except *instructor\_id* fields.) **CourseSemester** table rows are also added by the admin. In the beginning of all semesters, **Semester** table rows are also inserted by the admin considering *isActive* fields.
10. Department manager adds instructors to courses using this list. Course rows' *instructor\_id* fields are filled by the department manager.
11. In the beginning of all semesters, students send enrolment requests to the admin with their university emails. Admin approves these requests if the email is in the list. If so, a new unique *username* and a random *password* are sent to their emails. A new row in the **Student** table is created by the admin.
12. When a new student enrolls in the system, admin creates rows in the **CourseEnrollment** table using BILSIS list. At first *isEnrolled* field is assigned to false.
13. After a student is enrolled with the first password that is sent to his/her email by admin, his/her department and courses and related instructors will be displayed on their screen. Students can enrol in any course and related instructor. If so, *isEnrolled* field is set to true.
14. When an instructor logs in, his/her courses are displayed on his/her screen due to the fact that the department manager sets *instructor\_id* field of the courses.
15. When an instructor clicks on the Create Survey button, a row on the **CourseSurvey** table or **InstructorSurvey** table is created. 10 questions for the course survey and 10 questions for the instructor survey are inserted as rows in **SurveyQuestions**. These first questions are added automatically from the **DepartmentManagerQuestion** table.
16. There are 3 different actions for the instructor while preparing the survey. First one is creating a new question and adding it to the pool. This is done by adding a new row into the **InstructorQuestion** table. Second action is selecting a question from the pool. This is done by adding a new row in the **SurveyQuestions** table. Third action is reordering the questions of the survey. This is done by changing the *questionOrder* field value of the rows of the **SurveyQuestions** table.
17. If surveys of the course and the instructor are prepared by the instructor(*isSubmitted* field is true), 2 buttons appear right next to the course information after a student enrolls in that course. Clicking those buttons enables evaluation of the course and its instructor.
18. When a student starts evaluation of the course or its instructor, a new row is inserted in the **CourseEvaluation** table or the **InstructorEvaluation** table. For each answer, a new row is inserted in the **EvaluationAnswers** table.

19. Assumption: For course evaluation and instructor evaluation forms, there are 10 common questions which can be changed by the department manager. Instructor may add additional questions to those 10 questions.

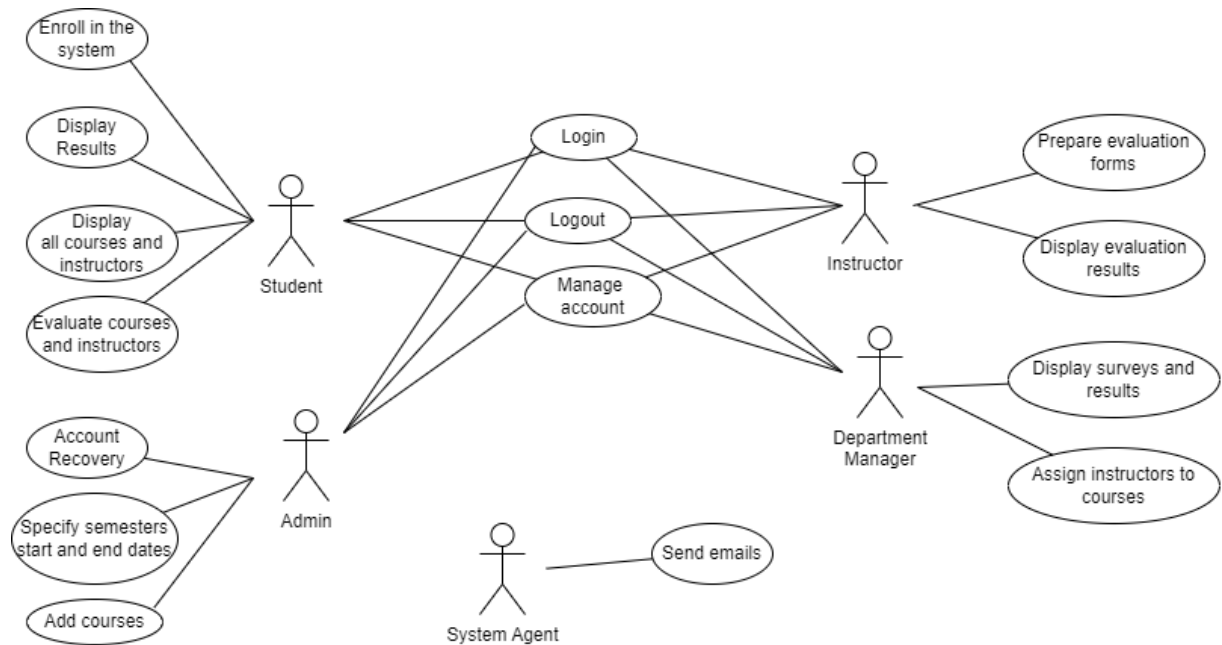
20. Question Pool Example:

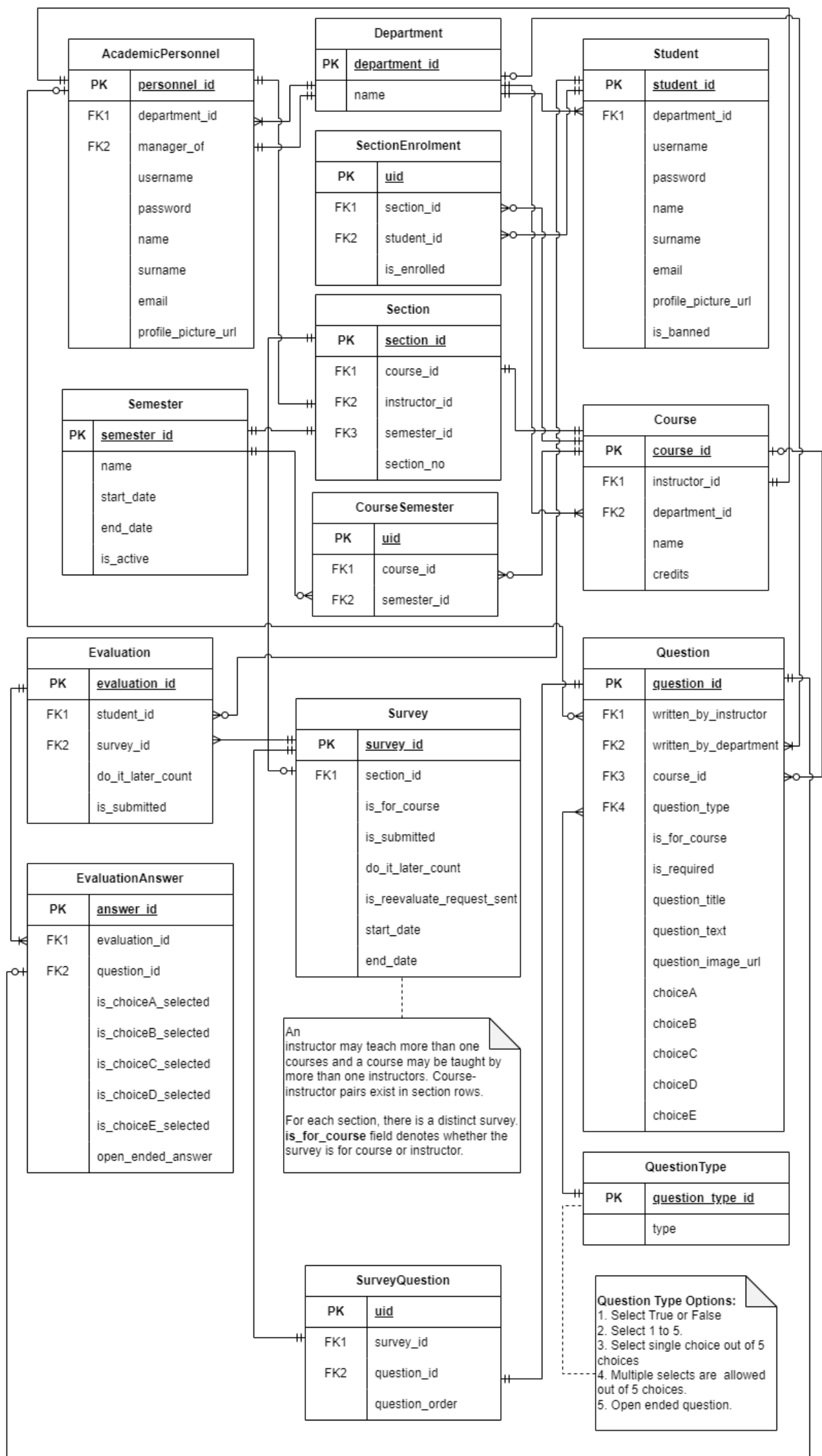
question_id	written_by_instructor	written_by_department	course_id	is_for_course	Question info
1	NULL	10(Math)	1001(Calc 101)	True	This question is prepared by Math Dep. Man. for Calc 101 <b>course survey</b>
2	1(Ali)	NULL	1001(Calc 101)	True	This question is prepared by Ali Hoca for Calc 101 <b>course survey</b>
3	NULL	10(Math)	1001(Calc 101)	False	This question is prepared by Math Dep. Man. for Calc 101 <b>instructor survey</b>
4	1(Ali)	NULL	1001 (Calc 101)	False	This question is prepared by Ali Hoca for Calc 101 <b>instructor survey</b>
5	NULL	10(Math)	NULL	True	This question is prepared by Math Dep. Man. for all department courses' <b>course survey</b>
6	NULL	10(Math)	NULL	False	This question is prepared by Math Dep. Man. for all department courses' <b>instructor survey</b>
7	1(Ali)	NULL	NULL	True	This question is prepared by Ali Hoca for <b>course survey</b> of all courses he teaches
8	1(Ali)	NULL	NULL	False	This question is prepared by Ali Hoca for <b>instructor survey</b> of all courses he teaches

21. While preparing surveys, questions pool contains which questions?

Survey type	Course_id	Instructor_id	Questions to display
Course	1001(Calc 101)	1(Ali)	<ol style="list-style-type: none"> <li>1. Course survey questions which Math. Dep. Man. prepared for Calc 101</li> <li>2. Course survey questions which Math. Dep. Man. prepared for all courses</li> <li>3. Course survey questions which Ali Hoca prepared for Calc 101</li> <li>4. Course survey questions which Ali Hoca prepared for all courses he teaches.</li> </ol>
Instructor	1001 (Calc 101)	1 (Ali)	<ol style="list-style-type: none"> <li>1. Instructor survey questions which Math. Dep. Man. prepared for Calc 101</li> <li>2. Instructor survey questions which Math. Dep. Man. prepared</li> </ol>

			for all courses 3. Instructor survey questions which Ali Hoca prepared for Calc 101 4. Instructor survey questions which Ali Hoca prepared for all courses he teaches.





## *SELECTED USE CASES*

Use Case	Use Case Number	Use Case Code	Actor	Notes
Login	1	ICES4HU-UC-001	All	
Logout	2	ICES4HU-UC-002	All	
Manage his/her own account	3	ICES4HU-UC-003	All	
Manage Accounts	4	ICES4HU-UC-004	Admin	Add, delete accounts. Approve students and send first passwords. Send new passwords to all accounts if requested. Delete old students and instructors. Ban students.
Specify Semester's Start and End dates	5	ICES4HU-UC-005	Admin	
Add Courses	6	ICES4HU-UC-006	Admin	
Enrol in the system	7	ICES4HU-UC-007	Student	
Evaluate Courses and Instructors	8	ICES4HU-UC-008	Student	
Display all courses and instructors	9	ICES4HU-UC-009	Student	
Save, continue editing and submit evaluation forms	10	ICES4HU-UC-010	Student	Students can save a form and continue later.
Send emails	11	ICES4HU-UC-011	System agent	Send announcement or warning emails to users
Prepare evaluation Forms	12	ICES4HU-UC-012	Instructor	Instructors can create, save, continue editing and submit evaluation forms
Display and download evaluation results	13	ICES4HU-UC-013	Instructor	
Display surveys and results	14	ICES4HU-UC-014	Department Manager	
Assign instructors to courses	15	ICES4HU-UC-015	Department Manager	

# ALL USE CASES

Use Case Name	Actor(s)	Precondition	Post condition
Login	Admin, Student, Instructor, Dep. Man.	Actor is not logged in	Actor is logged in
Logout	Admin, Student, Instructor, Dep. Man.	Actor is not logged in	Actor is logged in
Manage His/her Own Account	Admin, Student, Instructor, Dep. Man.	Password and picture are old	Password and picture are renewed
Send new password request	Student, Instructor, Dep. Man.	New password is not taken	New password is taken
Add and Manage Accounts	Admin	User x is not in the system	User x is in the system and his/her first or new password is sent to his/her email
Change account types	Admin	The account type is x	The account type is y
Merge emails	Admin	There is no merged email address for some users	There is a merged email address for some users
Start Semester	Admin	Semester start and end dates are unknown	Semester start and end dates are known
Add Courses	Admin	There are no courses for a specific department	There are some courses and related information for a specific department
Modify Evaluation Form Questions	Admin	Evaluation form does not have a question x	Evaluation form has question x
Approve Student Enrolment	Admin	Enrolment request of student x is not approved	Enrolment request of student x is approved
Delete Students and Instructors	Admin	Student x studies in the university / Instructor x works at the university	Student x does not study in the university / Instructor x does not work at the university
Ban student	Admin	Student x is not banned	Student x is banned
Enrol in the system	Student	Student x is not enrolled in the system	Student x is enrolled in the system
Enrol Course	Student	Student is not enrolled in the course X	Student is enrolled in the course X
Evaluate Course and Instructor	Student	Student is not evaluated the course and instructor	Student is evaluated the course and instructor

Save Evaluation Form	Student	Student's answers in the form is not saved	Student's answers in the form is saved
Continue filling out the form	Student	Uncompleted form is not loaded in the screen	Uncompleted form is loaded and ready for continuation
Submit Evaluation Form	Student	Form is not submitted	Form is submitted
Get Certificate of Completion	Student	Certificate of completion is not received	Certificate of completion is received
Display all courses and instructors	Student	Courses and instructors are not displayed	Courses and instructors are displayed
Display evaluation result	Student	Evaluation x is not displayed	Evaluation x is displayed
Contact system administrator	Student	Message to the system administrator is not sent	Message to the system administrator is sent
Send emails	System agent	Emails are not sent	Emails are sent
Create and save survey	Instructor	Survey is not created	Survey is created
Continue editing the survey	Instructor	Survey is not modified	Survey is modified
Preview the survey	Instructor	Survey preview is not shown	Survey preview is shown
Submit survey	Instructor	Survey is not submitted	Survey is submitted
Display/Download evaluation results	Instructor	Evaluation results are not displayed/downloaded	Evaluation results are displayed and downloaded
Request re-evaluation the survey	Instructor		
Display and download news and resources	Instructor		
Access Surveys and results	Department Manager		
Assign Instructors to Courses	Department Manager		
Re-evaluate surveys	Department Manager		
Share Results with Instructors	Department Manager		
Upload news and resources	Department Manager		