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| **Use Case #1 – Logging In** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students and instructors can enter the system by providing their ITU username and password |
| **Basic Flow:** | **1.** User directed to login page  **2.** ITU username and password are supplied by user and submitted  **3.** System validates the credentials and redirects user to the main page |
| **Alternative Flow:** | **1.** User directed to login page  **2.** ITU username and password supplied by user and submitted  **3.** If credentials are invalid or the student does not take any graduation project course, system shows the related error message and redirects to the login page again |

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| **Use Case #2 – Show all announcements** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students and instructors can show all announcements |
| **Basic Flow:** | **1.** User is logged in and redirected to the main page  **2.** In main page, system shows all announcement headers and available operations |
| **Alternative Flow:** | **1.** User is logged in and redirected to the main page  **2.** There are no announcements so “No announcements found” message is shown by the system |

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| **Use Case #3 – Add an announcement** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can add announcements |
| **Basic Flow:** | **1.** Announcement add form is displayed by the system  **2.** Header, details and attachment files information of the announcement are provided by the user  **3.** System adds announcement to the database, upload attachment files and redirects user to the main page |
| **Alternative Flow:** | **1.** Announcement add form is displayed by the system  **2.** User doesn’t provide a header so announcement is not added |

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| **Use Case #4 – Update an announcement** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can update announcements |
| **Basic Flow:** | **1.** User clicks on “Update” button in “Operations” column of any announcement  **2.** Announcement update form is displayed by the system  **3.** New header and new details information of the announcement are provided by the user  **4.** User may add new attachment files.  **5.** System updates related announcement to the database, upload new attachment files if requested and redirects user to the main page |
| **Alternative Flow:** | **1.** User clicks on “Update” button in “Operations” column of any announcement  **2.** Announcement update form is displayed by the system **3.** New header of the announcement is empty so announcement is not updated  or  **1.** There are no announcements so user can not any update any announcement |

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| **Use Case #5 – Delete an announcement** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete announcements |
| **Basic Flow:** | **1.** User clicks on “Delete” button in “Operations” column of any announcement  **2.** System deletes related announcement from the database, deletes attachment files of the related announcement and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no announcements so user can not delete any announcement |

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| **Use Case #6 – Delete all announcements** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete all announcements |
| **Basic Flow:** | **1.** User clicks on “Delete All” button on the bottom of the announcements table  **2.** System deletes all announcements from the database, deletes all attachment files of announcements and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no announcements so user can not delete all announcements |

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| **Use Case #7 – Show announcement details** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students and instructors can show announcement details |
| **Basic Flow:** | **1.** User clicks on “Show Details” button in “Operations” column of any announcement  **2.** Announcement details and attachment files are displayed by the system |
| **Alternative Flow:** | **1.** There are no announcements so user can not show announcement details |

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| **Use Case #8 – Delete an attachment file of an announcement** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete an attachment file of an announcement |
| **Basic Flow:** | **1.** User clicks on “Show Details” button of any announcement.  **2.** System shows attachment files of the announcement and every file has its own “Delete” button.  **3.** User clicks on any of these buttons  **4.** System deletes the file redirects user to the main page. |
| **Alternative Flow:** | **1.** There are no announcements so user can not delete any file of any announcement |

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| **Use Case #9 – Delete all attachment files of an announcement** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete all attachment files of an announcement |
| **Basic Flow:** | **1.** User clicks on “Show Details” button of any announcement.  **2.** System shows “Delete All Files” button at bottom of the announcement attachment files  **3.** User clicks on this button  **4.** System deletes all attachment files of the announcement and redirects user to the main page. |
| **Alternative Flow:** | **1.** There are no announcements so user can not delete all files of any announcement |

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| **Use Case #10 – Show all homeworks** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students and instructors can show all homeworks |
| **Basic Flow:** | **1.** User is logged in and redirected to the main page  **2.** In main page, system shows all homework headers, last submission dates and available operations |
| **Alternative Flow:** | **1.** User is logged in and redirected to the main page  **2.** There are no homeworks so “No homeworks found” message is shown by the system |

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| **Use Case #11 – Add a homework** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can add homeworks |
| **Basic Flow:** | **1.** Homework add form is displayed by the system  **2.** Header, details, source files and last submission date information of the homework are provided by the user  **3.** System adds homework to the database, upload source files and redirects user to the main page |
| **Alternative Flow:** | **1.** Homework add form is displayed by the system  **2.** User doesn’t provide a header so homework is not added |

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| **Use Case #12 – Update a homework** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can update homeworks |
| **Basic Flow:** | **1.** User clicks on “Update” button in “Operations” column of any homework  **2. H**omework update form is displayed by the system  **3.** New header, new details and new last submission date of the homework are provided by the user  **4.** User may add new source files.  **5.** System updates related homework to the database, upload new source files if requested and redirects user to the main page |
| **Alternative Flow:** | **1.** User clicks on “Update” button in “Operations” column of any homework  **2.** Homework update form is displayed by the system  **3.** New header of the homework is empty so homework is not updated  or  **1.** There are no homeworks so user can not any update any homework |

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| **Use Case #13 – Delete a homework** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete homeworks |
| **Basic Flow:** | **1.** User clicks on “Delete” button in “Operations” column of any homework  **2.** System deletes related homework from the database, deletes source files and student uploads of the related homework and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no homeworks so user can not delete any homework |

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| **Use Case #14 – Delete all homeworks** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete all homeworks |
| **Basic Flow:** | **1.** User clicks on “Delete All” button on the bottom of the a homeworks table  **2.** System deletes all homeworks from the database, deletes all source files and student uploads of homeworks and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no homeworks so user can not delete all homeworks |

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| **Use Case #15 – Show homework details** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students and instructors can show homework details |
| **Basic Flow:** | **1.** User clicks on “Show Details” button in “Operations” column of any homework  **2.** Homework details and source files are displayed by the system |
| **Alternative Flow:** | **1.** There are no homeworks so user can not show homework details |

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| **Use Case #16 – Delete a source file of a homework** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete a source file of a homework |
| **Basic Flow:** | **1.** User clicks on “Show Details” button of any homework  **2.** System shows attachment files of the homework and every file has its own “Delete” button.  **3.** User clicks on any of these buttons  **4.** System deletes the file redirects user to the main page. |
| **Alternative Flow:** | **1.** There are no announcements so user can not delete any file of any announcement |

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| **Use Case #17 – Delete all source files of a homework** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete all source files of a homework |
| **Basic Flow:** | **1.** User clicks on “Show Details” button of any homework  **2.** System shows “Delete All Files” button at bottom of the homework source files  **3.** User clicks on this button  **4.** System deletes all source files of the homework and redirects user to the main page. |
| **Alternative Flow:** | **1.** There are no homeworks so user can not delete all files of any homework |

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| **Use Case #18 – Upload homework** | |
| **Primary Actor:** | ITU Computer Engineering students |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students can upload their homeworks |
| **Basic Flow:** | **1.** User selects homework files and click on “Upload homework” button of the related homework  **2.** System uploads homework files |
| **Alternative Flow:** | **1.** If submission time is expired, user can not upload the homework  or  **1.** If user sends a new homework, system deletes old homework files and uploads new homework files |

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| **Use Case #19 – Download Uploaded Homework Files** | |
| **Primary Actor:** | ITU Computer Engineering students and instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering students can download their homeworks |
| **Basic Flow:** | **1.** User clicks on “Download Uploaded Homework Files” link of any homework  **2.** If user is student**, s**ystem sends homework files of the student as a ZIP file  **3.** If user is an instructor**, s**ystem sends all homework files as a ZIP file |

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| **Use Case #20 – Add a project** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can add projects |
| **Basic Flow:** | **1.** Announcement add form is displayed by the system  **2.** Student,title and advisor information of the project are provided by the user  **3.** System adds project to the database, upload project files and redirects user to the main page |
| **Alternative Flow:** | **1.** Project add form is displayed by the system  **2.** User doesn’t provide a student,title or advisor so project is not added |

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| **Use Case #21 – Update a project** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can update projects |
| **Basic Flow:** | **1.** User clicks on “Update” button in “Operations” column of any project  **2.** Project update form is displayed by the system  **3.** New student,new advisor and new title information of the project are provided by the user  **5.** System updates related project to the database and redirects user to the main page |
| **Alternative Flow:** | **1.** User clicks on “Update” button in “Operations” column of any project  **2.** Project update form is displayed by the system  **3.** New student,title or advisor of the project is empty so project is not updated  or  **1.** User clicks on “Update” button of any project  **2.** Project update form is displayed by the system  **3.** New student has already a project in the system so project is not updated.  or  **1.** There are no projects so user can not any update any project |

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| **Use Case #22 – Delete a project** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete projects |
| **Basic Flow:** | **1.** User clicks on “Delete” button in “Operations” column of any project  **2.** System deletes related project from the database and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no projects so user can not delete any project |

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| **Use Case #23 – Delete all projects** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can delete all projects |
| **Basic Flow:** | **1.** User clicks on “Delete All” button on the bottom of the projects table  **2.** System deletes all projects from the database and redirects user to the main page |
| **Alternative Flow:** | **1.** There are no projects so user can not delete all projects |

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| **Use Case #24 – Search projects** | |
| **Primary Actor:** | ITU Computer Engineering instructors |
| **Scope:** | ITU Computer Engineering Student Graduation Projects Automation System |
| **Level:** | User goal |
| **Brief:** | ITU Computer Engineering instructors can search from projects |
| **Basic Flow:** | **1.** User selects search criteria, enters search text,clicks “Search” button  **2.** System returns projects which contains given text in given search criteria |