**3. PROPOSED SYSTEM**

Our system offers an easy,reliable and convenient online test application system for the users.This is our purpose in this system.3 users can be access to our system.These are instructor,student and admin.Enrollment of students and instructors to system will be performed by admin.Users will not be able to do anything without logging into the system.Users will be able to login to the system with their own password and user name after registration.System interface will be a objective-driven system that users can easily use.In this system, we take as an example student takes an online exam in student module.In the instructor module,system offers instructors some easy and helpful functions.For example, prepare exam,review exam ,or update grade in case of need.An other and last module is admin module.In this module admin is responsible for registering users and courses in the system.

**3.1. Overview**

System makes it easier for instructors to prepare exams.At the same time,students take an exam which is prepared by instructors.Also,exam’s time setting by instructor then students answer the questions into this specified time.These functions occurs as a result of be user-friendly system.

**3.2. Functional Requirements**

Fuctional requirements indicate the functions the system offers to the user.Therefore,in this part we will specify the functions of our three-actor system

\* Instructor Functions

\* Student Functions

\* Admin Functions

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| Login the system |
| Change password |
| Reset password |
| Prepare and publish exam |
| Upload Results |
| Upload Correct Answer |
| Cancel Exam |
| Set Time Limit For Exams |

**Instructor Functions**

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| Login the system |
| Change password |
| Reset password |
| Taking exam |
| Pass Question |
| Save Exam |
| View Exam Results |

**Student Functions**

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| Login the system |
| Change password |
| Reset password |
| View user |
| View Course And Their Information |
| Add/Delete/Edit Course |
| Add/Delete/Edit User |

**Admin Functions**

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| **Use case name:** Add User |
| **Participant actors:** Admin |
| **Flow of events:**   1. Admin starts browser and types URL of the OES. 2. Admin logs in system with his/her password. 3. He/she click “Add User“ button. 4. OES display new page and admin add information about new user on this page. 5. Admin click “save“ button. 6. OES displays “Add User Successfully“ message on box. 7. OES redirects admin tot he user main page. 8. Admin logs of. |
| **Entry Condition:**   * Admin log in the OES. * Admin displays his/her main page. |
| **Exit Condition:**   * Admin saves the user successfully on system |

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| **Use case name:** Add Course |
| **Participant actors:** Admin |
| **Flow of events:**   1. Admin starts browser and types URL of the OES. 2. Admin logs in system with his/her password. 3. He/she click “Add Course“ button. 4. OES display new page and admin add information about new user on this page. 5. Admin click “save“ button. 6. OES displays “Add Course Successfully“ message on box. 7. OES redirects admin tot he user main page. 8. Admin logs of. |
| **Entry Condition:**   * Admin log in the OES. * Admin displays his/her main page. |
| **Exit Condition:**   * Admin saves the course successfully on system |

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| **Use case name:** Edit Course |
| **Participant actors:** Admin |
| **Flow of events:**   1. Admin starts browser and types URL of the OES. 2. Admin logs in system with his/her password. 3. He/she click “Edit Course“ button. 4. OES display list of course on new page 5. Admin select course that he/she wants update infotmation about selected course on list. 6. Admin enter necessary information about course 7. Admin click “save“ button. 8. OES displays “Edit Course Successfully“ message on box. 9. OES redirects admin tot he user main page. 10. Admin logs of. |
| **Entry Condition:**   * Admin log in the OES. * Admin displays his/her main page. |
| **Exit Condition:**   * Admin saves new information successfully on system. * Admin click “back“ button. |

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| **Use case name:** Edit User |
| **Participant actors:** Admin |
| **Flow of events:**   1. Admin starts browser and types URL of the OES. 2. Admin logs in system with his/her password. 3. He/she click “Edit User“ button. 4. OES display list of users on new page 5. Admin select a user that he/she wants update infotmation about selected user on list. 6. Admin enter necessary information about user. 7. Admin click “save“ button. 8. OES displays “Edit User Successfully“ message on box. 9. OES redirects admin tot he user main page. 10. Admin logs of. |
| **Entry Condition:**   * Admin log in the OES. * Admin displays his/her main page. |
| **Exit Condition:**   * Admin saves new information successfully on system. * Admin click “back“ button. |

**EditCourse Scenario**

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| *Scenario name* | Edit Course |
| *Participating actors* | Dilara:Admin |
| *Flow of events* | 1. Dilara wants to edit course on the system.  2. She logs on to OES with her user name and password to edit course.  3. OES checks the password and user name according to the user’s input.If the inputs are valid,system opens new page that include edit course button.  4. She click the edit course button.  5. System display new page if she has already added courses.  6. Dilara selects course from this page.  7.System redirects the user to next page that includes selected course’s information.  8. She edits information about this course.  9.Dilara clicks save button if the changes are over.  10.System save these or those changes.  11.System display a“edit course succesfully“messages in a box on this page.  12.Dilara logsoff the system if she want. |
| *Entry Condition* | Dilara saw the error in the exam. |
| *Exit Condition* | Dilara complates the edit course operation. |

**ExamTimeOut Scenario**

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| *Scenario name* | Exam Time Out |
| *Participating actors* | Dilara:Student |
| *Flow of events* | 1. Dilara enters the web-site.  2. System redirects the user to login page.  3.Dilara enters the required username and password fields on the screen.  4.Dilara clicks the StudentLogin button.  5. OES checks the password and user name according to the user’s input.If the inputs are valid,system opens student’s home page.  6.She clicks courses button and selects course which is going to start.  7.System display new page which is include questions if the exam begins.  8.Dilara starts to answer questions.  9.Exam time is over although she can not finish the questions.  10.System saves exam and redirect Dilara student’s home page. |
| *Entry Condition* | Dilara takes an exam.  Dilara starts an exam. |
| *Exit Condition* | System finish exam time. |

**MisMatchedPasswords Scenario**

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| *Scenario name* | MisMatched Passwords |
| *Participating actors* | Dilara:Instructor |
| *Flow of events* | 1. Dilara enters the web-site.  2. She logs on to OES with her user name and password .  3. OES checks the password and user name according to the user’s input.If the inputs are valid,system opens new page that include change password button.  4. Dilara wants to change her password.  5.She clicks the changepassword button.  6.System display new page which is include changing password form.  7.Dilara enter her user name,password,new password and again new password.  8. System checks the entered information.  9.If first new password and second new password not matched,system display a“mismatched password“messages in a box on this page. |
| *Entry Condition* | Dilara log in the system.  Dilara clicks the change password button. |
| *Exit Condition* | Dilara changed password succesfully. |