

**College of Engineering**

**COMP 491 – Computer Engineering Design**

**Requirements Document**

**KUPEP (Protecting Exam Platform)**

**Spring 2021**

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# Introduction

We have defined the test cases and we are going to develop our software according to these cases. Our goal is to achieve at least %70 pass rate of these test cases.

1.Examiner- Before (The process until examiner presses the exam "start button")

1. The examiner should be able to see each computers IP address and the name of the exam takers who are in logged in the computer.
2. Has the status of exam takers been marked as "not submitted" ?
3. Buttons cannot be used until the exam settings have been configured.
4. After exam settings configured, the examiner's name, surname, and course code will appear. Internet enabled/disabled, banned sites, exam file and permitted file extensions will appear.
5. After exam settings configured, buttons which are “send exam to students” , “send public msg”, “start exam”, “mini chat”, “pm enabled” can be used.
6. Is software asking “ are you sure?” type of question after pressing buttons which are “send exam to students” or “start exam”?
7. Are exam takers able to reach exam after examiner presses “send exam to students” button ?
8. countdown starts when examiner presses “start exam” button.
9. Student’s pc number is matching with the pc number in the PC list.
10. When we start the program, UI table will react as we are expecting.
11. When “exam settings” are configurated, UI table will change as we are expecting.
12. In exam settings, does exam file get uploaded? Can “save” button save the checkpoint? Has software asked “Are you sure” type of questions? Has the “reset” button brought settings to the prime position?
13. Examiner should fill the “Examiner’s name”, “Examiner’s surname”, “course code”, “exam file”, “exam start time”,” exam duration”. These are required.
14. Can every exam taker take a message when the “Send public message” button pressed? Do messages stay in the public message box?
15. In Private message, exam taker’s name, surname and PC number can be seen by Examiner? Do messages stay in the private message box?
16. Is “PM Enable” working?

2.Examiner- During the exam(The process examiner presses the exam "start button")

1. Is countdown starting when pressing “start exam” button? Can every exam taker take a message that the exam started?
2. Is “quick settings” button working? Is “Help” button active? Can “USB” button prevent the USB usage? Does “Help” option enable or disable “Send Help” button for exam takers? Does information about configuration changings can be delivered through public message?
3. Is the internet can be enabled or disabled?
4. Is the “Add extra time” option working? Has software asked the “Are you sure” type of question when the “save” button is pressed?
5. Is “send public message” button working during the exam, Do the previous messages stay in the public message box?
6. Is “Private message” button working during the exam? Are exam taker’s name, surname and PC number visible in Mini Chat? Do the previous messages stay in the private messages box?
7. Are exam takers visible in help list? Is the “OK” button red at the Help list? Is the feedback go to exam taker when pressing “OK” button? Does help appear when requested? Is mini chat active? If “PM enabled” is active, “Open” button in Mini Chat is red? Does exam taker stay in the list when examiner presses“OK ” button in the Help List?
8. Do exam takers, who have not submitted their own work but become disconnected during the exam show up in the disconnected list? Is “OK” button active in the Disconnect List? Are their names, surnames and PC numbers visible? After pressing “OK” button, does exam taker still stay in the disconnected list?
9. If “Exam settings” are changed during the exam, do changes happen during the exam? Can every exam taker take a message about changing?
10. Is “PM enabled” working during the exam?
11. Information that “Submitted-(time)” visible on list , for example “Submited-13:45”?
12. Does UI table change as expected when “exam settings” are configurated?
13. Does countdown works properly?
14. Is UI table changing as we are expecting?

3.Examiner- After the exam

1. Can examiner reach exam takers’ documents through “Take submissions”?
2. Is the countdown over?
3. Is UI table changing as we are expecting?

4.ExamTaker- Before the exam

1. Can exam taker see his own name and surname, examiner’s name and surname with course code?
2. Is PC number visible?
3. Is information about configuration changings visible through public message by Exam takers?
4. Do exam takers see the internet enable/disable, permitted file extensions, banned sites, USB usage permission, help usage permission?
5. Can exam taker see exam through “Exam Content”?
6. Is UI table changing as we are expecting?

5.ExamTaker- During the exam

1. Did “Send Help” button turned to red when exam taker presses it? When examiner presses “ok” from Help list, did “Send Help” button turned to its default color?
2. Can exam taker see “private message is enabled/disabled” change?
3. Can exam takers send private message to examiner when “Pm is enabled”?
4. Can exam takers submit their work and does software ask for “Are you sure” type of questions?
5. Are exam takers able to reach their file explorer from “Browse Local Files”?
6. Can exam takers enter the restricted sites during the exam?
7. Can exam takers use USB when USB usage is disabled?
8. Can exam takers use internet when internet is disabled?
9. Can exam takers press “Send Help” button if help is disabled?
10. Can exam takers see the changes, announcements from public message box and messages stay in the public message box?
11. Can exam takers see examiner’s private message and send private messages to examiner? Is private message “send button” “asking for “are you sure” type of questions?
12. Can exam taker see the countdown?
13. Can exam takers shut the program from task manager?
14. Is UI table changing as we are expecting?

6.ExamTaker-After the exam

1. Can exam taker still submit after the exam is finished which means countdown becomes 0?
2. Can exam taker press “Send Help” button?
3. Can exam taker text to examiner while “PM is enabled” for him after the exam is finished?

7.Admin

All the actions will be logged.

Examiner actions: Exam settings configuration, at which time did examiner change the settings. Quick settings changes, extra time changes, public messages and private messages, pressing “ok” button in Help list and Disconnected list, sending exam to students, start exam, the moment of pressing “Take exam submission”, pressing “pm enabled” button, the time that the examiner has connected to program, the time examiner has disconnected.

Exam taker actions: submission time, pressing “send help” button, sending private message, the time exam taker connects, the time exam taker disconnects.

Proxy server: the time and the sites exam taker tried to enter external and internal network, did proxy block the entrance to sites for restricted sites?, when did the examiner enabled or disabled the internet?