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Description automatically generated

King Fahd University of Petroleum & Minerals

Department of Information & Computer Science

Project for SWE 206

Term 211

Phase I

Group 05

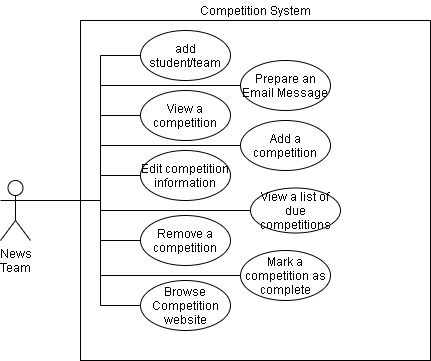
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| --- | --- | --- |
| Name: | ID | Contributions |
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| MOHAMMED AHMED AL-EASI | 201971350 |  |
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Non functional requirements

1. The system shall be easy to use
2. The system must be responsive
3. The system must store the data safely in an `.xlsx` format
4. There can only be one instance of the system at any given moment
5. The system must be written in `java`, and the GUI is to be implemented in `javaFX`.
6. The system should look appealing to the user

Use case Diagram



Use case Description:

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| **Use case ID:** | 01.1 | | |
| **Use Case Name:** | Prepare an Email Message | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user Chooses a competition 2. The user Clicks on send email 3. The user's default email client is opened with the necessary information filled out. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** | The user has no default email client  a) Inform the user that the system has failed to detect his or her default  email client. | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 02.1 | | |
| **Use Case Name:** | Browse competition website | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. the user chooses a competition 2. the user clicks on browse website 3. built in browser should open up viewing the competition website | | |
| **Alternative Flows:** | The competition has no available website  a) Inform the user that no website is associated with the selected  competition | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 03.1 | | |
| **Use Case Name:** | Add a competition | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on the add competition button 2. The user is prompted to enter the name, date, and the information of the students participating in the competition 3. The user clicks OK 4. The system adds the competition and all of its related information 5. The user clicks save 6. The entered data is stored in the data file. | | |
| **Alternative Flows:** | 1. The user enters invalid or missing information.   1. The system informs the user about the missing information, and asks   him or her to try again. | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 04.1 | | |
| **Use Case Name:** | Edit competition information | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user chooses competition from the competitions list. 2. The user clicks on the edit button | | |
| **Alternative Flows:** | The user removes required information  A) The system refuses to save the changes, unless the user enters valid  information | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 05.1 | | |
| **Use Case Name:** | Remove a competition | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on the delete button 2. The competition is removed from the system, and will no longer be stored once the user clicks on save. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 06.1 | | |
| **Use Case Name:** | View competition | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on a competition to view all of its associated information. The information includes: The students / teams participating in the competition, the competition due date, and competition website, and the competition description. | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 07.1 | | |
| **Use Case Name:** | View a list of due competitions | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on "view due competitions" button to view a list of   competition that are due. | | |
| **Alternative Flows:** | The user removes required information  A) The system refuses to save the changes, unless the user enters valid  information | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 08.1 | | |
| **Use Case Name:** | Mark a competition as complete | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on the "edit competition" button. 2. The user checks the "mark as completed" box | | |
| **Alternative Flows:** | The user attempted to mark a competition that has not reached its due date  a) The system will refused to update the competition, and inform the user  with a message | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |

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| **Use case ID:** | 09.1 | | |
| **Use Case Name:** | Add student/ team | | |
| **Created by:** |  | **Last Updated by:** |  |
| **Date Created:** |  | **Last Revision Date:** |  |
| **Actors:** | News Team (primary)  System (secondary) | | |
| **Description:** |  | | |
| **Trigger:** | User Click | | |
| **Preconditions:** |  | | |
| **Postconditions:** |  | | |
| **Normal Flow:** | 1. The user clicks on the "Add student/team" button. 2. The user fill the student/team information The information include: student ID,Name,Name Competition, Rank,Competition Link 3. The user click add student or team | | |
| **Alternative Flows:** | 1. The user enters invalid or missing information.   1. The system informs the user about the missing information, and asks   him or her to try again. | | |
| **Exceptions:** |  | | |
| **Assumptions:** |  | | |
| **Notes and Issues:** |  | | |