**Iteration 3**

**UofL Research & Innovation Website Renovation Vision (Small Project)**

*Team Added Value*

CIS 310-01

**University of Louisville**

Revision History

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| --- | --- | --- | --- |
| **Date** | **Version** | **Description** | **Author** |
| 27/Jan/20 | 1.0 | First Iteration | Ruomei Wang |
| 10/Feb/20 | 2.0 | Second Iteration | Sohal Patel |
| 1/Mar/20 | 3.0 | Inception Spec | Ruomei Wang |
| 20/Mar/20 | 4.0 | Third Iteration | Emily Wantland |

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8. **Use Cases**

* An overview of essential use cases describing a specific situation in which a product or service could potentially be used.

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| Use Case ID | Case Name | Primary Actor | Description |
| UC 1 | Research Application | Researcher | Students will be able to apply for grant application and the system will accept it from them |
| UC 2 | Update Information on Current Partnerships | Admin | The admin will update information on current partnerships on the website |
| UC 3 | Add Weekly Updates to Newsletter | Admin | The admin will create weekly updates to the newsletter on the website |
| UC 4 | Edit the Newsletter | Admin | The system will allow admins to edit the newsletter on the website |
| UC 5 | Delete the Newsletter | Admin | The system will allow admins to delete a newsletter |
| UC 6 | Find Information | Student | The system will have a search bar to help users find information |
| UC 7 | Create Grants | Admin | The system will allow admins to create grants |
| UC 8 | Modify Grants | Admin | The system will allow admins to edit grants |
| UC 9 | Delete Grants | Admin | The system will allow admins to delete grants |
| UC 10 | Create Student Application | Student | The system will accept student applications |
| UC 11 | Edit Student Application | Student | The system will allow student applications to be edited |
| UC 12 | Delete Student Application | Student | The system will allow the deletion of student applications |
| UC 13 | Create Funding Application | Researcher | The system will accept funding applications |
| UC 14 | Edit Funding Application | Researcher | The system will allow funding applications to be edited |
| UC 15 | Delete Funding Application | Researcher | The system will allow funding applications to be deleted |
| UC 16 | Create Industry Proposal | Industry | The system will accept industry proposals |
| UC 17 | Edit Industry Proposal | Industry | The system will allow industry proposals to be edited |
| UC 18 | Delete Industry Proposal | Industry | The system will allow industry proposals to be deleted |
| UC 19 | Add and Conduct Surveys | Admin | The system will allow surveys to be completed and store the results |
| UC 20 | Edit Surveys | Admin | The system will allow modifications of the surveys |
| UC 21 | Delete Surveys | Admin | The system will allow deletion of the surveys |
| UC 22 | Login | Student | The system will allow users to login using their account names and passwords |
| UC 23 | Backup Data | Admin | The system will back up the data created |
| UC 24 | Recover Data | Admin | The system will allow the recovery of data when needed |
| UC 25 | Create Profiles | Researcher | The system will allow researchers to create profiles to showcase their works |
| UC 26 | Add Events | Admin | The system will allow admin to add events |
| UC 27 | Edit Events | Admin | The system will allow admin to edit events |
| UC 28 | Delete Events | Admin | The system will allow admin to delete events |
| UC 29 | Link the Donation  Process Directly to  UofL Development  Departments | Industry | The system will lead industries to UofL development departments’ webpages to continue their donation  process |
| UC 30 | Link ThinkIR to the  Research Page | Industry | The system will lead industries to UofL ThinkIR in order to showcase breakthroughs |

1. **System Requirements**

* Hardware components or other software resources for the software to efficiently run. On the user’s end, there are nonfunctional requirements.

**Nonfunctional**

*Operational*

1. The system will operate on Windows 7, 8 & 10, Linux 2005 Minimum, or MAC OS 10.0
2. The system will need a 2.8 GHz or faster processor
3. The system will need at least 4 GB of free disk space
4. The system will need internet connection for software activation
5. The system will work on all web browsers
6. The system will integrate with the existing University of Louisville Research database
7. The system will work on mobile devices

*Performance*

1. Any interaction between user and system should not exceed 1 second
2. The system will update every 30 minutes
3. The system will run 24 hours per day, 365 days per year
4. The system will support the capacity of the University of Louisville’s Research Database
5. The system will handle 100 transactions per hour

*Security*

1. The system will allow only administrators can view applications
2. The system will allow only administrators can edit the newsletter
3. The system will allow users to see their transaction history
4. The system will allow only the administrator to see staff personal records
5. The system will only allow the issuer of the grant and the administrator to view grant information and status
6. The system will encrypt all transactions

*Cultural & Political*

1. The system will comply with the University of Louisville standard logo and color scheme
2. The system will be able to distinguish between the United States and European currencies
3. The system will comply with privacy standards
4. The system will only accept information following the UofL code of conduct.

**Functional**

1. The system will accept grant applications
2. The system will update information on current partnerships
3. The system will allow weekly updates to newsletter
4. The system will allow users to edit the newsletter
5. The system will allow administrators to delete newsletter
6. The system will have a search bar to help users find information
7. The system will target industry partners
8. The system will allow the modification of grants
9. The system will allow the deletion of grants
10. The system will take in student applications
11. The system will allow the editing of student applications
12. The system will allow the deletion of student applications
13. The system will take in researcher funding applications
14. The system will allow the editing researcher funding applications
15. The system will allow the deletion of researcher funding applications
16. The system will take in industry proposals
17. The system will allow the editing of industry proposals
18. The system will allow the deletion of industry proposals
19. **Trace Matrix**

* Associates use cases with system requirements.

To address how use cases can be traced from top-level system requirements, we have the application from the main system requirements, and system will allow administrators to view applications.

The system will also allow Admin to edit, add or delete the newsletters. Another one in the newsletter is system will allow the editing or deletion of the weekly updates of newsletters.

Also, in the system requirements, the system will allow users to see their transaction history. The system will allow only the administrator to see staff personal records. The system will only allow the issuer of the grant and the administrator to view grant information and status.

The system will allow the modification or deletion of grants. The system will take in student applications and allow them to edit it or delete it. Also, the system will take in researcher funding applications.

It is almost the same how the system requirements traced the use cases but the differences are the requirements focus on system operations with a tendency toward detailed system specifications, on the other hand, use cases focus on the interactions between the user and the system with a similar tendency of detailed specification. Also use cases focus on the outset external actors like users, processes, agents and how they interface with the system, whereas the functional requirements approach the problem from a solution angle, and how can we employ this feature to solve our problem.

1. **Use Case Specifications**

* Our template for a simple use case specification contains the following information:

1. Use case name
2. Use case ID
3. Brief description: A paragraph that captures the goal of the use case
4. Actors involved in the use case
5. Preconditions: These are things that must be true before the use case can execute — they are constraints on the state of the system
6. Main flow: The steps in the use case
7. Postconditions: The things that must be true at the end of the use case
8. Alternative flows: A list of alternatives to the main flow.

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| **Use Case**: Research Application |
| **ID**: 1 |
| **Brief Description**: Students will be able to apply for grant application and researchers will accept or deny them |
| **Primary Actor**: Researcher |
| **Secondary Actor**: Student |
| **Preconditions**: Students login to apply |
| **Main Flow**:   1. Student enters UofL ID 2. Student enters password 3. Student goes to application page 4. Student submits application 5. Researcher accepts or denies the application |
| **Postconditions**: The system will create an account and save the user’s application |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Update Information on Current Partnerships |
| **ID**: 2 |
| **Brief Description**: The admin will update information on current partnerships on the website |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**: The Admin logs on to the Research and Innovation website |
| 1. **Main Flow**: Admin goes to the Research and Innovation homepage 2. Admin goes to the “Login” page 3. Admin enters username 4. Admin enters password 5. Admin presses “Login” button 6. Admin gets validated by the database 7. Admin clicks on newsletters 8. Admin clicks on update 9. Admin enters news information about partnerships 10. Admin clicks on “Submit” button |
| **Postconditions**: The website database needs to be able to store the information uploaded |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Add Weekly Updates to Newsletter |
| **ID**: 3 |
| **Brief Description**: The admin will allow weekly updates to newsletter on the website |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin has information about newsletters |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin goes to the “Login” page 3. Admin enters username 4. Admin enters password 5. Admin presses “Login” button 6. Admin gets validated by the database 7. Admin clicks on newsletters 8. Admin clicks on update 9. Admin enters news information 10. Admin clicks on “Submit” button |
| **Postconditions**:   1. The newsletter information will be displayed on the website for everyone to view 2. The database needs to be able to store the information |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Edit the Newsletter |
| **ID**: 4 |
| **Brief Description**: The system will allow the admin to edit the newsletter on the website |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin has the information about newsletters |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin goes to the “Login” page 3. Admin enters username 4. Admin enters password 5. Admin presses “Login” button 6. Admin gets validated by the database 7. Admin clicks on newsletters 8. Admin clicks on update 9. Admin modifies information 10. Admin clicks on “Submit” button |
| **Postconditions**:   1. The newsletter information will be displayed on the website for everyone to view 2. The database needs to be able to store the information |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Delete the Newsletter |
| **ID**: 5 |
| **Brief Description**: The admin will delete a newsletter on the website |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin will log into their account |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin goes to the “Login” page 3. Admin enters username 4. Admin enters password 5. Admin presses “Login” button 6. Admin gets validated by the database 7. Admin clicks on newsletters tab 8. Admin clicks on the newsletter that needs to be deleted 9. Admin deletes the newsletter |
| **Postconditions**:   1. The newsletter information will be removed from the website and database |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Find Information |
| **ID**: 6 |
| **Brief Description**: The system will have a search bar to help users find information |
| **Primary Actor**: Student |
| **Secondary Actor**: N/A |
| **Preconditions**: N/A |
| **Main Flow**:   1. Student goes to Research and Innovation website 2. Student puts the keyword in the search bar 3. Student clicks on “Search” button 4. Student gets directed to the result page |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. The information the student is looking for does not exist |

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| **Use Case**: Create Grants |
| **ID**: 7 |
| **Brief Description**: The system will allow the admin to create grants |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin gets information from Industry partners about the grants |
| **Main Flow**:   1. Admin goes to “Grants” tab 2. Admin creates grants |
| **Postconditions**:   1. The industries information will be displayed on the website for researchers to view |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Edit Grants |
| **ID**: 8 |
| **Brief Description**: The system will allow the admin to modify grants |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin logs into their accounts 2. Admin has the grant’s information |
| **Main Flow**:   1. Admin will click on “Grants” tab 2. Admin will click on “Modify Grant” button 3. Admin will upload modified grant information |
| **Postconditions**:   1. The grant will be displayed on the website for researchers to view |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Delete Grants |
| **ID**: 9 |
| **Brief Description**: The system will allow the admin to delete grants |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin will log into their accounts |
| **Main Flow**:   1. Admin clicks on the grant that needs to be deleted 2. Admin will click on “Delete Grant” button 3. The grant will be deleted |
| **Postconditions**:   1. The grant will be deleted from the database |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Create Student Application |
| **ID**: 10 |
| **Brief Description**: The system will allow the student to create an application |
| **Primary Actor**: Student |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Student will apply and submit the application 2. Student logs on to the website |
| **Main Flow**:   1. Student clicks on the “Apply” tab 2. Student fills out the application 3. Student submits the application |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. Invalid Username 2. Invalid Password 3. Invalid Application |

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| **Use Case**: Edit Student Application |
| **ID**: 11 |
| **Brief Description**: System will allow student application to be edited |
| **Primary Actor**: Student |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Student should have submitted their application already 2. Student log in to the website |
| **Main Flow**:   1. Student clicks on the “Apply” tab 2. Student clicks on “Edit Application” button 3. Student re-submits the application |
| **Postconditions**:   1. There needs to be a deadline after which the students will not be able to edit their application |
| **Alternate Flow**:   1. Invalid Username 2. Invalid password 3. The deadline passed and the application cannot be edited |

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| **Use Case**: Delete Student Application |
| **ID**: 12 |
| **Brief Description**: System will allow the deletion of student applications |
| **Primary Actor**: Students |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Student should have submitted their application already 2. Student logs in to the website |
| **Main Flow**:   1. Student clicks on the “Apply” tab 2. Student clicks on “Delete Application” button 3. Student deletes the application |
| **Postconditions**:   1. There needs to be a deadline after which the students will not be able to delete their application |
| **Alternate Flow**:   1. Invalid Username 2. Invalid Password 3. The deadline has passed and the application cannot be deleted |

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| **Use Case**: Create Funding Application |
| **ID**: 13 |
| **Brief Description**: System will accept researcher funding applications |
| **Primary Actor**: Researcher |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Funders should fund the amount to the university 2. Researcher logs in to the website |
| **Main Flow**:   1. Researcher fills out the application for funding 2. Researcher submits the application |
| **Postconditions**:   1. The application will be saved in the database. |
| **Alternate Flow**: N/A |

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| **Use Case**: Edit Funding Application |
| **ID**: 14 |
| **Brief Description**: System will allow researcher funding applications to be edited |
| **Primary Actor**: Researcher |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Researchers should have submitted funding application 2. Researcher logs on to the website |
| **Main Flow**:   1. Researcher clicks on the “Funding Application” tab 2. Researcher edits the application for funding 3. Researcher re-submits the application |
| **Postconditions**:   1. There needs to be a deadline after which the students will not be able to edit their application |
| **Alternate Flow**:   1. Invalid Username 2. Invalid Password 3. The deadline passed and the application cannot be edited |

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| **Use Case**: Delete Funding Application |
| **ID**: 15 |
| **Brief Description**: Brief Description: System will allow the deletion of researcher funding applications |
| **Primary Actor**: Researcher |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Researchers should have submitted funding application 2. Researcher logs on to the website |
| **Main Flow**:   1. Researcher clicks on the “Funding Application” tab 2. Researcher selects the application for funding 3. Researcher delete the application |
| **Postconditions**:   1. There needs to be a deadline after which the students will not be able to edit their application |
| **Alternate Flow**:   1. Invalid Username 2. Invalid Password 3. The deadline passed and the application cannot be deleted |

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| **Use Case**: Create Industry Proposal |
| **ID**: 16 |
| **Brief Description**: The system will accept industry proposals |
| **Primary Actor**: Industry |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Industries should contact the Research & Innovation Office first 2. Industry has been assigned with login information by Research & Innovation Office |
| **Main Flow**:   1. Industry logs in to the website with login information assigned by Research & Innovation Office 2. Industry be directed to the page to upload industry proposal 3. The proposal is submitted |
| **Postconditions**:   1. A portal has been created for Industry 2. The proposal will be displayed on the website to all users 3. Research & Innovation Office review the proposal |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Edit Industry Proposal |
| **ID**: 17 |
| **Brief Description**: The system will allow industry proposals to be edited |
| **Primary Actor**: Industry |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Industry should have submitted proposals 2. Industry has been assigned with login information by Research & Innovation Office |
| **Main Flow**:   1. Industry logs in to the website 2. Industry is directed to their portal 3. Industry clicks on the proposal they uploaded before 4. Industry clicks on “Edit Proposal” button 5. The proposal is edited 6. The proposal is re-submitted |
| **Postconditions**:   1. Research & Innovation Office reviews the editing of the proposal |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Delete Industry Proposal |
| **ID**: 18 |
| **Brief Description**: The system will allow the deletion of industry proposals |
| **Primary Actor**: Industry |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Industry should have submitted proposals 2. Industry should inform Research & Innovation Office of the deletion in advance 3. Industry has been assigned with login information by Research & Innovation Office |
| **Main Flow**:   1. Industry logs in to the website 2. Industry is directed to their portal 3. Industry clicks on the proposal they uploaded before 4. Industry clicks on “Delete Proposal” button 5. The proposal is deleted |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Add and Conduct Surveys |
| **ID**: 19 |
| **Brief Description**: The system will allow surveys to be completed and store the results |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**: N/A |
| **Main Flow**:   1. Admin logs in to the website 2. Admin creates a survey 3. The system shows the survey created by Admin to users when they click on a button or tab 4. The survey is taken by users |
| **Postconditions**:   1. The survey results will be saved in the system |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Edit Surveys |
| **ID**: 20 |
| **Brief Description**: The system will allow modifications of the surveys |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin has created surveys |
| **Main Flow**:   1. Admin logs in to the website 2. Admin select the survey that needs modification 3. The survey is modified |
| **Postconditions**: |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Delete Surveys |
| **ID**: 21 |
| **Brief Description**: The system will allow deletion of the surveys |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Admin has posted surveys |
| **Main Flow**:   1. Admin logs in to the website 2. Admin selects the survey(s) that needs to deleted 3. The survey is deleted |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. Invalid Email Address 2. Invalid Password 3. Cancel |

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| **Use Case**: Login |
| **ID**: 22 |
| **Brief Description**: System will allow Student to login using their account names and passwords |
| **Primary Actor**: Student |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Student needs be assigned with a school email and create password |
| **Main Flow**:   1. Student enters username 2. Student enters password 3. Student submits login |
| **Postconditions**:   1. User can edit or delete applications from his account |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Backup Data |
| **ID**: 23 |
| **Brief Description**: System will back up the data created |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. System should be running |
| **Main Flow**:   1. System backs up the data that has been entered |
| **Postconditions**:   1. System can recover the data in case of losing it |
| **Alternate Flow**: N/A |

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| **Use Case**: Recover Data |
| **ID**: 24 |
| **Brief Description**: System will allow the recovery of data when needed |
| **Primary Actor**: Admin |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Data has been backed up |
| **Main Flow**:   1. System recovers previously backed up data |
| **Postconditions**:   1. Backed up data is restored |
| **Alternate Flow**: N/A |

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| **Use Case**: Create Profiles |
| **ID**: 25 |
| **Brief Description**: System will allow researchers to create profiles to showcase their works |
| **Primary Actor**: Researcher |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Go to the university research website |
| **Main Flow**:   1. Researcher goes to the Research and Innovation website 2. Researcher logs on to the website 3. Researcher clicks on “Create Profile” button to create your profile 4. Researcher clicks on “Save Profile” button |
| **Postconditions**:   1. Researchers will have their account profile page where they can log in later at any time and edit what they want |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel |

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| **Use Case**: Add Event |
| **ID**: 26 |
| **Brief Description**: The system will allow admin to add events |
| **Primary Actor**: Admin |
| **Secondary Actor**: Researcher |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin will have information about event |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin clicks on the “Login” button 3. Admin enters username and password 4. Admin submits login 5. Admin clicks on “Events” tab 6. Admin clicks the “Add Events” button 7. Admin submits event information |
| **Postconditions**:   1. The event information will be displayed on the website for everyone to view |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Edit Event |
| **ID**: 27 |
| **Brief Description**: The system will allow admin to modify events |
| **Primary Actor**: Admin |
| **Secondary Actor**: Researcher |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin has the updated information about events |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin clicks on the “Login” button 3. Admin enters username and password 4. Admin submits login 5. Admin clicks on “Events” tab 6. Admin clicks the “Edit Event” button 7. Admin submits event information |
| **Postconditions**:   1. The event information will be displayed on the website for everyone to view after it has been edited |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Delete Event |
| **ID**: 28 |
| **Brief Description**: The system will allow admin to delete events |
| **Primary Actor**: Admin |
| **Secondary Actor**: Researcher |
| **Preconditions**:   1. Admin will log into their accounts 2. Admin has the information about newsletters |
| **Main Flow**:   1. Admin goes to the Research and Innovation homepage 2. Admin clicks on the “Login” button 3. Admin enters username and password 4. Admin submits login 5. Admin clicks on “Events” tab 6. Admin clicks on the event that needs to be deleted 7. Admin deletes the event |
| **Postconditions**:   1. The event information will be removed from the website |
| **Alternate Flow**:   1. Invalid username 2. Invalid password 3. Cancel 4. Invalid submission |

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| **Use Case**: Link the Donation Process Directly to UofL Development Departments |
| **ID**: 29 |
| **Brief Description**: The system will lead industries to UofL development departments’ webpages to continue their donation process |
| **Primary Actor**: Industry |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. Industry logs in to the Research and Innovation website 2. The system will have link to connect industries to UofL development departments’ webpages to continue their donation process |
| **Main Flow**:   1. Industry logs in to the Research and Innovation website 2. Industry goes to “For Industry” page 3. Industry clicks on “Donation” button 4. Industry be directed to UofL development departments’ webpages to continue their donation process |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. Invalid connection to the link |

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| **Use Case**: Link ThinkIR to the Research page |
| **ID**: 30 |
| **Brief Description**: The system will lead industries to UofL ThinkIR in order to showcase UofL breakthroughs |
| **Primary Actor**: Industry |
| **Secondary Actor**: N/A |
| **Preconditions**:   1. The link to ThinkIR needs to be established 2. The link needs to function properly |
| **Main Flow**:   1. Industry logs in to the Research and Innovation website 2. Industry goes to “For Industry” page 3. Industry clicks on “ThinkIR” button 4. Industry be directed to UofL ThinkIR to view what UofL has accomplished |
| **Postconditions**: N/A |
| **Alternate Flow**:   1. Invalid connection to the link |

1. **Use Case Diagrams**

* Representations of a user's interaction with the system that shows the relationship between the user and the different use cases in which the user is involved.

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1. **Prototypes**

* A mock-up/demo of what the website will look like when it goes live.
* *Link*: <http://pictureintext.net/pro/>

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| Home Page   * The home page provides four branches for different types of users, it directs them to pages with unique and relevant information. * The search function helps users search for information they need across the entire website. * On the bottom, it links the users to Research Office’s social media accounts, physical locations, and contact information. |
| For Student Page   * The page is dedicated to the students and provides them with information about undergraduate research scholar grants, internal and external research opportunities, and other resources. |

1. **Gantt Chart**

* A Gantt chart is a type of bar chart that illustrates a project schedule. This chart lists the tasks to be performed on the vertical axis, and time intervals on the horizontal axis. The width of the horizontal bars in the graph shows the duration of each activity.

