

UofL Research & Innovation Revamp

"The Problem Solvers"

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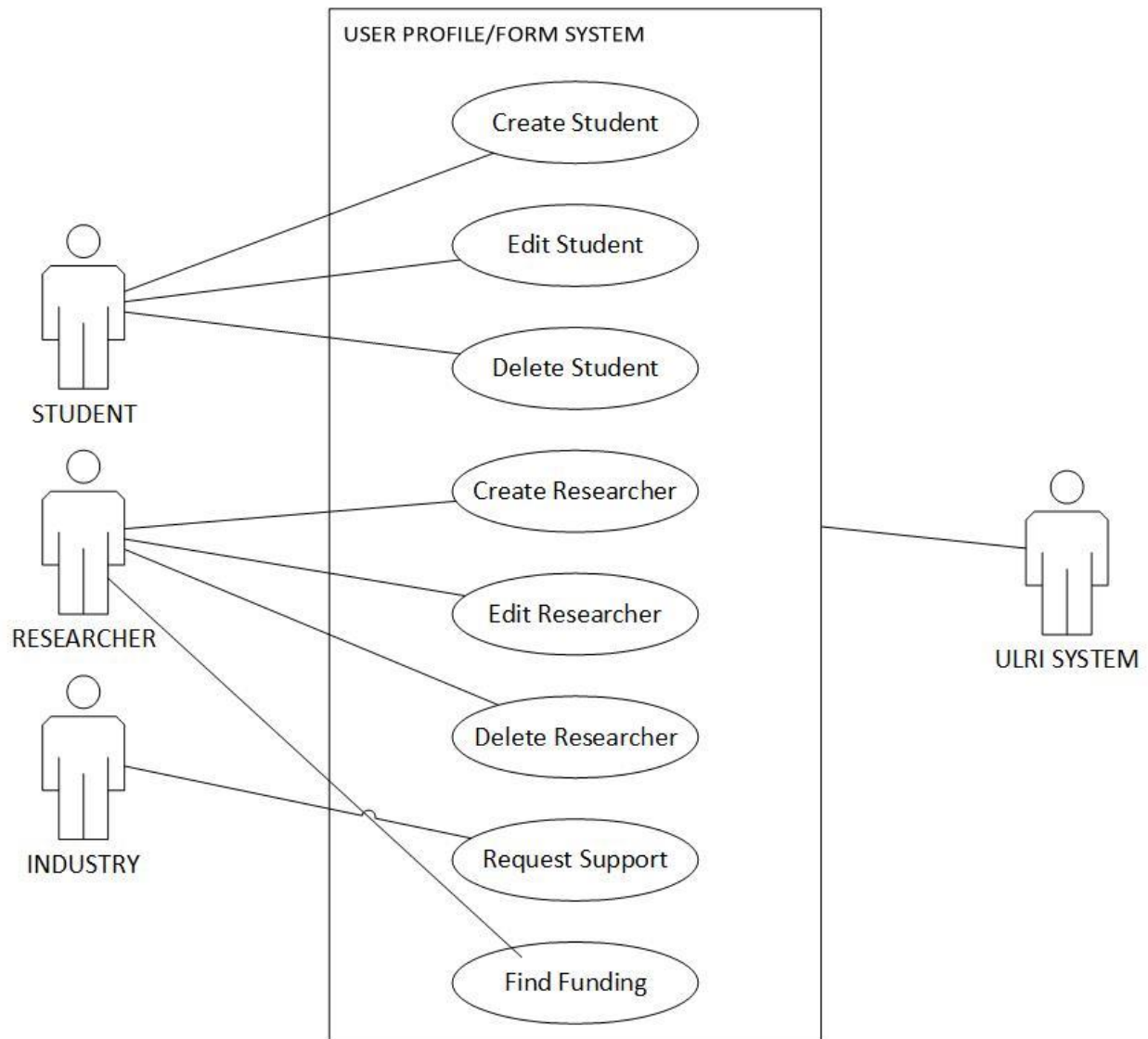
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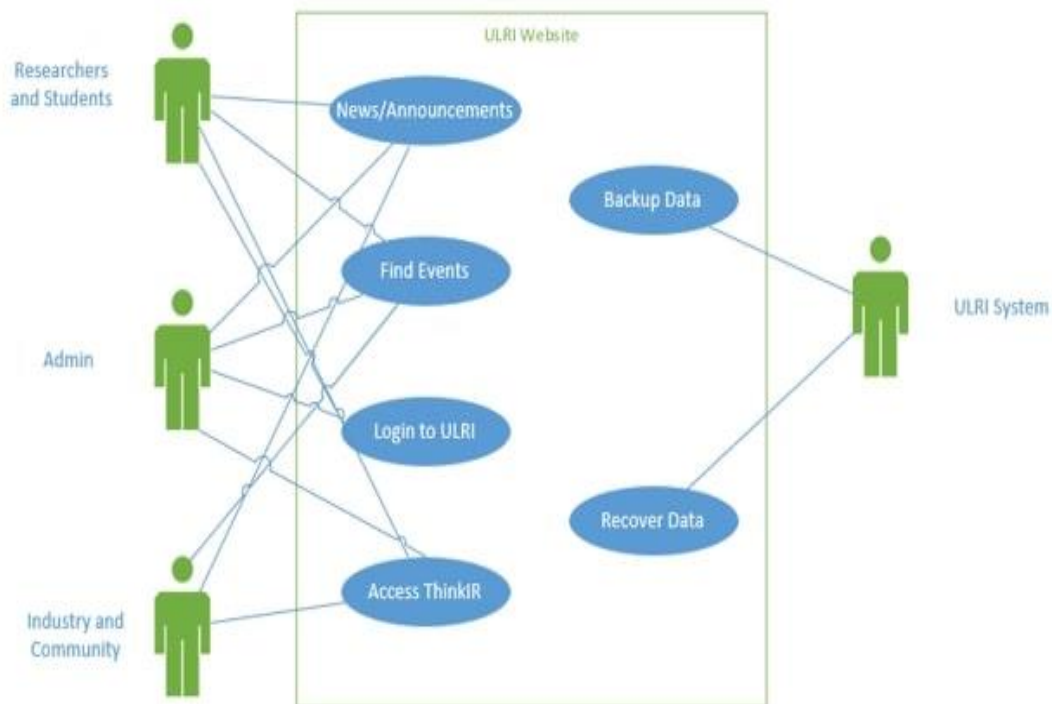
High-Level Prototypes

This diagram displays the cross section between our requirements and use-cases. Both the requirements and use cases are listed in our previous iteration, iteration 2.

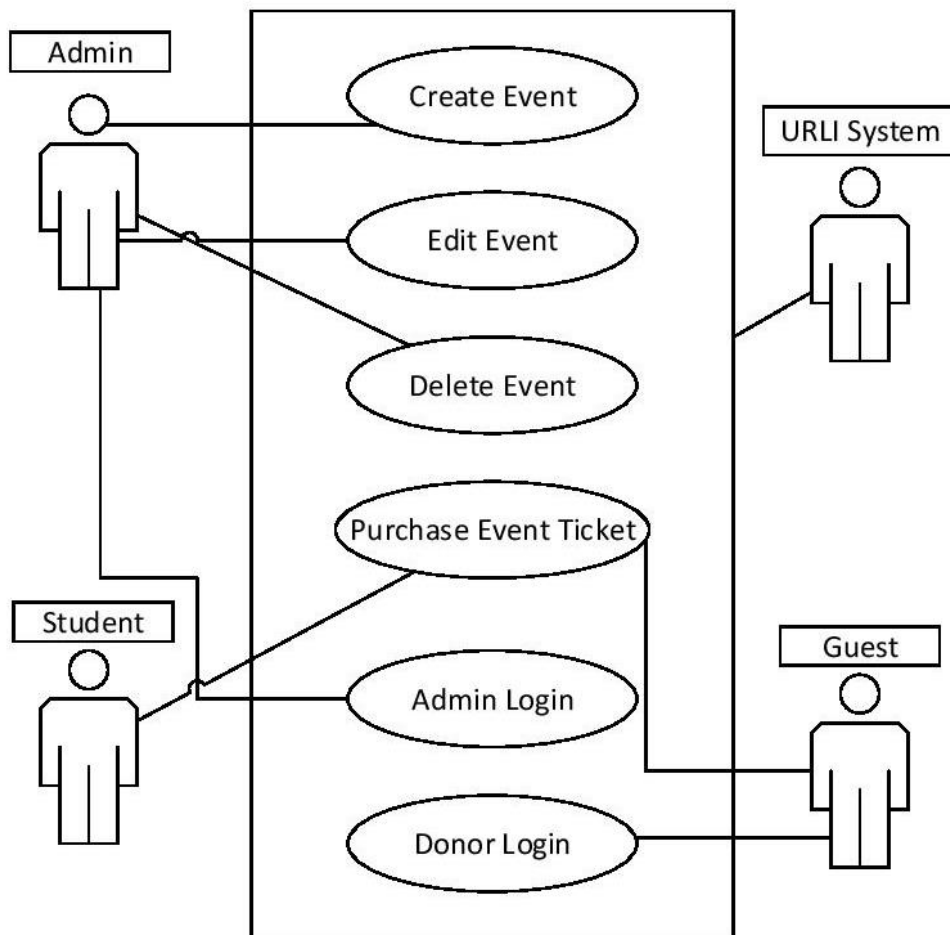
Use Case Diagrams



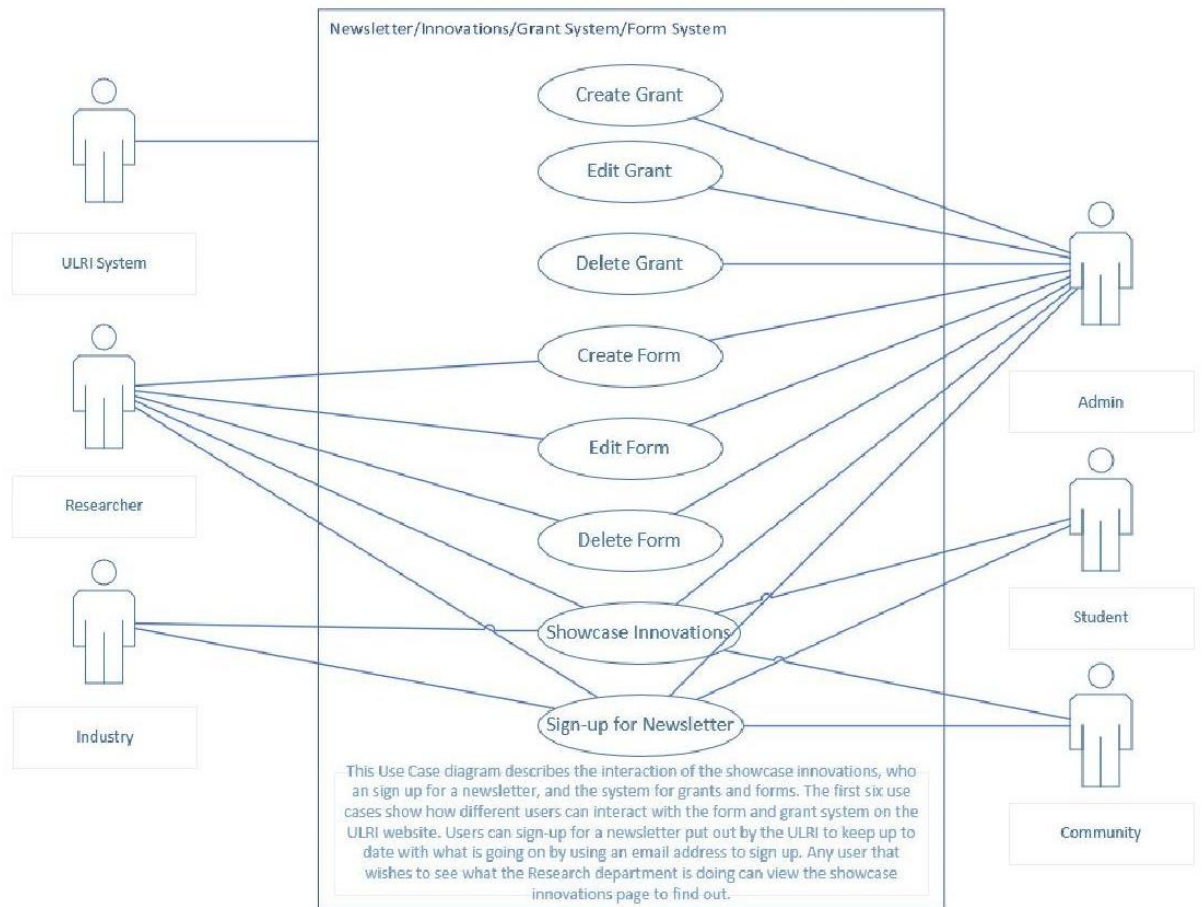
This use case diagram describes a user profile/form system. The first six use cases regard to student and researcher accounts on the ULRI website. Researchers can save funding opportunities to their profile for quick access. The request support use case is for industry professionals looking to for support. Their contact information and form is saved to the ULRI system.

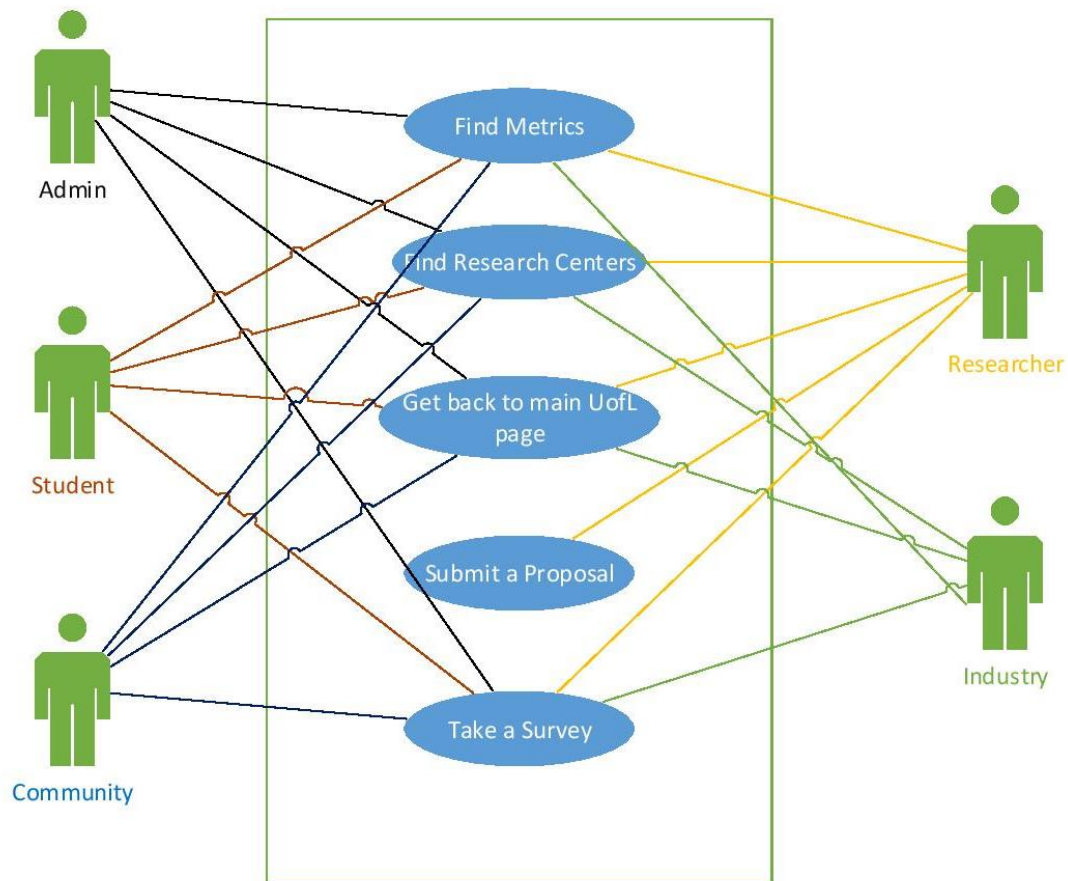


This diagram explains some of the user functionality of the ULRI website and explains some of the measures taken to ensure that not only user data is constantly maintained, but also website files and databases are safe. The four use cases that community at large will use will help individuals keep up with current news and events and allow users to access personalized pages. The use cases on the right are there to help maintain the integrity and usability of the website as a whole.

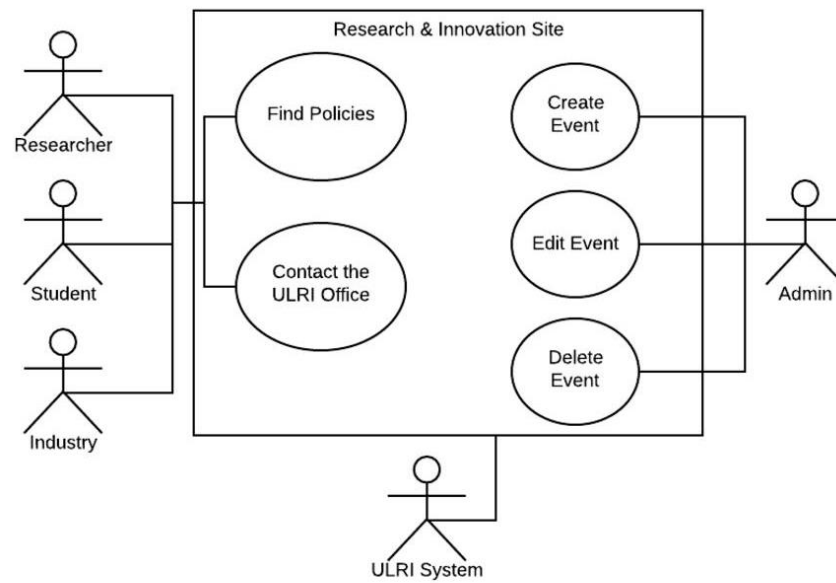


This diagram shows the relationship between the actors and activities they are tied with. Students and guests are allowed to purchase event tickets and admin is allowed to create, edit, and delete the event. Admin can login as admin and guests can login to donor login and the whole is controlled by URLI system.





This use case diagram shows 5 low risk use cases including: find metrics, find research centers, get back to the main UofL page (uofl.edu), submit a proposal, and take a survey. These 5 use cases while low risk are very important additions to this webpage/system. The new webpage must show metrics so that visitors to the site can understand how much the ULRI center has accomplished and how much more they are ready to accomplish. The use case for finding research centers is also vital so that prospecting researchers or current ones can find a center that works best for them in a very easy and efficient manner assisting in their research needs. The next use case gets back to the main UofL page and isn't as important to students, but this is necessary to add for industries and researchers that aren't current students so that they can navigate easily to our main college page and find any other resources they may need. After that we have the use case for submitting a proposal. This use case only applies to researchers so that they can submit proposals for their research and see if the university will support it and allow them to use their facilities. Lastly, we have "take a survey", this is important for a few reasons. One of which being some researchers may need people to respond to surveys to assist in their research or to complete it and another being that the ULRI center may want to add their own surveys to see how they can continue to improve the environment for researchers or industries that want to get involved with the ULRI.



This use case diagram describes the different types of users that access the system to find relevant and accurate information. The first use case connects users with that information to show university and research policies as well as procedures. The second use case presents users with the information necessary to communicate between them and the research and innovation office. The administrator can access the system to create, edit, and delete events related to the research and innovation department.

Use Cases

Use Case: Create Student
ID: 1
Brief Description: This use case describes how a student would create an ULRI account.
Primary Actors: Student
Secondary Actors: None
Preconditions: Student account does not exist
Main flow: <ol style="list-style-type: none">1. User goes to louisville.edu/research2. User clicks "Login" button on homepage3. User is directed to Login page4. User selects create account5. User selects "I am a student"6. User enters first name in text box7. User enters last name in text box8. User enters email in text box9. User enters password in text box10. User re-enters password in text box11. User clicks "Create an account" button at bottom of page12. User is directed to student account page13. User is added to student table in database14. User receives confirmation email
Postconditions: Student account created
Alternative Flows: none
Risk: Low

Use Case: Edit Student
ID: 2
Brief Description: This use case describes how a student would edit their ULRI account.
Primary Actors: Student
Secondary Actors: None
Preconditions: Student account does not exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User enters email in text box 5. User enters password in text box 6. User clicks "Login" button 7. User is directed to student account page 8. User selects "Edit Account" 9. User modifies student account 10. User clicks "Save" button 11. Pop up displays "All changes have been saved" 12. Student is edited
Postconditions: Student account modified
Alternative Flows: none
Risk: Low

Use Case: Delete Student
ID: 3
Brief Description: This use case describes how a student would delete their ULRI account.
Primary Actors: Student
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User enters email in text box 5. User enters password in text box 6. User clicks "Login" button 7. User is directed to student account page 8. User selects "Edit Account" 9. User clicks "Delete Account" button 10. Pop up displays "Are you sure you want to delete your account?" 11. Student selects "Yes" 12. Pop up displays "Student Deleted Successful" 13. Student is deleted from student table in database
Postconditions: Student account modified
Alternative Flows: <ol style="list-style-type: none"> 1. Student selects "No" 2. Student Account not deleted
Risk: Low

Use Case: Create Researcher
ID: 4
Brief Description: This use case describes how a researcher would create an ULRI account.
Primary Actors: Researcher
Secondary Actors: None
Preconditions: Researcher account does not exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects create account 5. User selects "I am a researcher" 6. User enters first name in text box 7. User enters last name in text box 8. User enters email in text box 9. User enters password in text box 10. User re-enters password in text box 11. User clicks "Create an account" button at bottom of page 12. User is directed to researcher account page 13. User is added to researcher table in database 14. User receives confirmation email
Postconditions: Researcher account created
Alternative Flows: None
Risk: Low

Use Case: Edit Researcher
ID: 5
Brief Description: This use case describes how a researcher would edit their ULRI account.
Primary Actors: Researcher
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User enters email in text box 5. User enters password in text box 6. User clicks "Login" button 7. User is directed to student account page 8. User selects "Edit Account" 9. User modifies Researcher account 10. User clicks "Save" button 11. Pop up displays "All changes have been saved" 12. Researcher is edited
Postconditions: Researcher account edited
Alternative Flows: none
Risk: Low

Use Case: Delete Researcher
ID: 6
Brief Description: This use case describes how a researcher would delete their ULRI account.
Primary Actors: Researcher
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User enters email in text box 5. User enters password in text box 6. User clicks "Login" button 7. User is directed to student account page 8. User selects "Edit Account" 9. User clicks "Delete Account" button 10. Pop up displays "Are you sure you want to delete your account?" 11. Researcher selects "Yes" 12. Pop up displays "Researcher Deleted Successful" 13. Researcher is deleted from researcher table in database
Postconditions: Researcher account deleted
Alternative Flows: <ol style="list-style-type: none"> 1. Researcher selects "No" 2. Researcher account is not deleted
Risk: Low

Use Case: Request Support
ID: 7
Brief Description: This use case describes how an industry professional can request support (equipment, lab space, assistance, etc).
Primary Actors: Industry
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User hovers over "Support" 3. User clicks "For Industry" 4. User is directed to Industry Support main page 5. User selects "Request Support" button 6. User enters first name and last name in text box 7. User enters company name in text box 8. User enters email in text box 9. User enters website (if applicable) in text box 10. User enters phone number in text box 11. User selects checkboxes for "Space", "Labs", "Equipment", "Access to technologies", "Inventions and Licensing", and/or "Researcher support" 12. User enters information about project goals in text box 13. User enters information about budgetary limitations in text box 14. User clicks "Submit form"
Postconditions: Industry requested support
Alternative Flows: <ol style="list-style-type: none"> 1. Industry selects "Space" 2. Industry selects "Labs" 3. Industry selects "Equipment" 4. Industry selects "Access to technologies" 5. Industry selects "Inventions and licensing" 6. Industry selects "Researcher support"
Risk: High

Use Case: Find Funding
ID: 8
Brief Description: This use case describes how a researcher can find funding
Primary Actors: Researcher
Secondary Actors: None
Preconditions: Must be logged in as a researcher to save search results
<p>Main flow:</p> <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User hovers over "Support" 3. User clicks "For Researchers" 4. User is directed to Research Support main page 5. User selects "Find Funding" button 6. User selects type of funding: "Federal", "Foundations/Nonprofits", and/or "Internal Grants" 7. User selects applicable research areas: "Biological Sciences", "Computer and Information Science", "Engineering", "Geosciences", "Mathematical and Physical Sciences", "Social", "Behavioral and Economic Sciences", and/or "Education and Human Resources". 8. User enters additional keywords (optional) 9. User clicks "Find Funding" button 10. System runs query to find the most applicable grants according to criteria 11. System presents results of query 12. User selects [Result #1] 13. User selects "Save to my favorites" button
Postconditions: None
<p>Alternative Flows:</p> <ol style="list-style-type: none"> 1. User selects different types of funding 2. User selects different applicable research areas
Risk: High

Use Case: Create Grant
ID: 9
Brief Description: The admin will be able to create grants in the system
Primary Actors: ULRI System
Secondary Actors: Admin
Preconditions: Grant is not created
<p>Main flow:</p> <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects "I am an admin" 5. User enters username in text box 6. User enters password in text box 7. User clicks login 8. User is directed to ULRI system 9. User clicks "Create Grant" 10. User is directed to grant creation page 11. User selects which grant to create 12. User selects properties of grant 13. User clicks "Create" 14. User gets confirmation email of grant creation
Postconditions: Grant is created
Alternative Flows: None
Risk: Low

Use Case: Edit Grant
ID: 10
Brief Description: The admin will be able to edit grants in the system
Primary Actors: ULRI System
Secondary Actors: Admin
Preconditions: Grant needs to be edited
<p>Main flow:</p> <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects "I am an admin" 5. User enters username in text box 6. User enters password in text box 7. User clicks login 8. User is directed to ULRI system 9. User clicks "Edit Grant" 10. User is directed to list of created grants 11. User selects which grant to edit 12. User edits selected grant 13. User clicks "Save Edits" 14. Pop up displays "All changes have been saved" 15. User gets confirmation email that edits made to grant are saved
Postconditions: Grant is edited
Alternative Flows: None
Risk: Low

Use Case: Delete Grant
ID: 11
Brief Description: The admin will be able to delete grants in the system
Primary Actors: ULRI System
Secondary Actors: Admin
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects "I am an admin" 5. User enters username in text box 6. User enters password in text box 7. User clicks login 8. User is directed to ULRI system 9. User clicks "Delete grant" 10. User is directed to list of created grants 11. User selects which grant to delete 12. User clicks "Delete" 16. Pop up displays "Are you sure you want to delete?" 17. User clicks "Delete" on pop up 18. Pop up displays "Grant has been deleted" 19. User gets confirmation email that grant has been deleted
Postconditions: Grant is deleted
Alternative Flows: None
Risk: Low

Use Case: Create Form
ID: 12
Brief Description: This use case describes how an admin can create a form
Primary Actors: ULRI System
Secondary Actors: Admin, Researcher
Preconditions: Form needs to be created
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects "I am an admin" 5. User enters username in text box 6. User enters password in text box 7. User clicks login 8. User is directed to ULRI system 9. User clicks "Create Form" 10. User is directed to form creation page 11. User selects which form to create 12. User selects properties of form 13. User clicks "Create" 14. User gets confirmation email of form creation
Postconditions: Form is created
Alternative Flows: None
Risk: Low

Use Case: Edit Form
ID: 13
Brief Description: The admin will be able to edit forms in the system
Primary Actors: ULRI System
Secondary Actors: Admin, Researcher
Preconditions: Form needs to be edited
<p>Main flow:</p> <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User selects "I am an admin" 5. User enters username in text box 6. User enters password in text box 7. User clicks login 8. User is directed to ULRI system 9. User clicks "Edit Form" 10. User is directed to list of created forms 11. User selects which form to edit 12. User edits selected form 13. User clicks "Save Edits" 14. Pop up displays "All changes have been saved" 15. User gets confirmation email that edits made to form are saved
Postconditions: Form is edited
Alternative Flows: None
Risk: Low

Use Case: Delete Form
ID: 14
Brief Description: The admin will be able to delete forms in the system
Primary Actors: ULRI System
Secondary Actors: Admin, Researcher
Preconditions: None
<p>Main flow:</p> <ol style="list-style-type: none"> 13. User goes to louisville.edu/research 14. User clicks "Login" button on homepage 15. User is directed to Login page 16. User selects "I am an admin" 17. User enters username in text box 18. User enters password in text box 19. User clicks login 20. User is directed to ULRI system 21. User clicks "Delete form" 22. User is directed to list of created forms 23. User selects which form to delete 24. User clicks "Delete" 20. Pop up displays "Are you sure you want to delete?" 21. User clicks "Delete" on pop up 22. Pop up displays "Form has been deleted" 23. User gets confirmation email that Form has been deleted
Postconditions: Form is deleted
Alternative Flows: None
Risk: Low

Use Case: Find Policies
ID: 15
Brief Description: This use case describes how a user can find the relevant pages and information to fit their need.
Primary Actors: Researcher, Student, Industry
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User hovers over "Support" 3. User clicks on "Policies & Procedures" 4. User is directed to the "Policies & Procedures" webpage 5. User clicks on a relevant hyperlink 6. User is redirected to another university or PDF webpage
Postconditions: User downloads a PDF
Alternative Flows: none
Risk: Low

Use Case: Find News/Announcements
ID : 16
Brief Description: The system will present the user with news articles and announcements that are updated weekly/ The system will create, edit, and delete articles/announcements
Primary Actors: Researcher, Student, Industry, Admin, Community
Secondary Actors: None
Preconditions: User wants to find news/announcements or create/edit/delete articles or announcements
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User scrolls down to find articles/announcements 3. User clicks on article/announcement 4. User closes article/announcement 5. End of use case
Post conditions: Article of interest are found
Alternative Flows: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User access' admin account 3. User clicks to add/edit/delete an article 4. User adds/edits/deletes article 5. User saves changes 6. End of use case
Risk: High

Use Case: RSVP for events
ID : 17
Brief Description: The system will present the user with a calendar of events that are updated weekly. The system will create, edit, and delete events
Primary Actors: Researcher, Student, Industry, Admin, Community
Secondary Actors: None
Preconditions: User wants to find events or create/edit/delete events
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User logs in with their account 3. User scrolls down to find events 4. User clicks on event they are interested in 5. User clicks button to RSVP for event 6. User closes event page 7. End of use case
Post conditions: Article of interest are found
Alternative Flows: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User access' admin account 3. User clicks to add/edit/delete an event 4. User adds/edits/deletes event 5. User saves changes 6. End of use case
Risk: High

Use Case: Showcase Innovation
ID: 18
Brief Description: The system will present the users with images of innovation taking place at the University.
Primary Actors: Researcher, Student, Industry, Admin, Community
Secondary Actors: None
Preconditions: User wants to find out about innovation at UofL
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User finds "Innovation" tab 3. User clicks "Innovation" tab 4. User scrolls through innovation page 5. User finds innovation of interest 6. User clicks desired innovation 7. User is redirected to detailed page of innovation
Postconditions: Desired Innovations are found
Alternative Flows: None
Risk: Low

Use Case: Sign Up for Newsletter
ID: 19
Brief Description: Users will be able to sign up for a newsletter to be updated with ULRI news, events, and announcements. The system will create, edit, and delete (emails of) researchers, students, industry, admin, and community.
Primary Actors: Student, Industry, Community, ULRI System
Secondary Actors: None
Preconditions: Subscription to newsletter doesn't exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Newsletter" on page 3. User is directed to newsletter page 4. User selects "Sign-up" tab 5. User selects who they are (S-1) 6. User enters valid email in text box 7. User clicks "Sign-Up" button at bottom of page 8. User is directed back to home page 9. User's email put in database of newsletter 10. User receives confirmation email 11. User receives newsletter updates
Postconditions: User has subscription to newsletter
Alternative Flows: S-1: User selects if they are "Student, Industry, Researcher, Community"
Risk: Low

Use Case: Contact The ULRI Office
ID: 20
Brief Description: This use case describes how users can view the contact information for ULRI office.
Primary Actors: Researcher, Student, Industry
Secondary Actors: None
Preconditions: None
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks on "Contact" 3. User is directed to the "Contact" webpage 4. User views email link, locations, and social media hyperlinks
Postconditions: None
Alternative Flows: <ol style="list-style-type: none"> 1. User scrolls to the bottom of the page
Risk: Low

Use Case: Login to ULRI
ID : 21
Brief Description: The system will grant user access privileges. After logging in, users should be able to see the status of grants and their proposals.
Primary Actors: Researcher, Student, Industry, Admin
Secondary Actors: None
Preconditions: User wants to access their individual profile/access rights and see grant status
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks on login button 3. User enters their credentials then hits enter 4. User will click log out button 5. End of use case
Post conditions: User will be able to access their specified website privileges
Alternative Flows: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks on login button 3. User enters their credentials then hits enter 4. User clicks on a grant to view status 5. User clicks out of grant status to return to their profile 6. User click log out button 7. End of use case
Risk: High

Use Case: Find Metrics
ID: 22
Brief Description: Users will be able to see information regarding the Metrics of the ULRI office
Primary Actors: Researcher, Student, Industry, Admin
Secondary Actors: None
Preconditions: Metrics are unknown
Main flow: <ol style="list-style-type: none">1. User goes to louisville.edu/research2. User locates metrics on main landing page3. Use case ends
Postconditions: User finds metrics
Alternative Flows: none
Risk: Low

Use Case: Find Research Centers
ID: 23
Brief Description: Users will be able to find information regarding UL Research Centers in an easy to navigate manor
Primary Actors: Student, Researcher, Community
Secondary Actors: None
Preconditions: Research Center information is known to user
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Research Centers" tab 3. User is directed to Research Centers page 4. User locates a list of Research Centers 5. User locates contact information under title of specified Research Center 6. User locates address information under contact information of specified Research Center 7. Use case ends
Postconditions: User finds information for Research Center
Alternative Flows: none
Risk: Low

Use Case: Get back to main UofL page
ID: 24
Brief Description: Users will be able to get back to uofl.edu. The system will route back to the main UofL home page by selecting the UofL logo in the header. In doing so it will follow UofL branding guidelines
Primary Actors: Student, Researcher, Industry, Community, Admin
Secondary Actors: None
Preconditions: User is on a ULRI page
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks the logo in the top left part of the header 3. User is directed to uofl.edu 4. Use case ends.
Postconditions: User is on the main UofL page (uofl.edu)
Alternative Flows: none
Risk: Low

Use Case: Submit a proposal
ID: 25
Brief Description: Users will be able to see information regarding developing a proposal. The system will have a drop-down menu that shows them all the steps to develop a proposal. At the end there will be a button to submit a proposal in which the system will open a route to an email such as outlook.
Primary Actors: Researcher
Secondary Actors: None
Preconditions: User is a researcher logged into the ULRI website
Main flow: 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to Login page 4. User enters login information 5. User is directed to researcher account page 6. User locates drop down menu for "How to submit a proposal" 7. User follows listed steps for how to submit a proposal 8. User sends the email with full proposal information 9. End use case
Postconditions: User has sent proposal to proper recipient
Alternative Flows: none
Risk: Low

Use Case: Backup information
ID : 26
Brief Description: The system will backup website data
Primary Actors: ULRI system
Secondary Actors: None
Preconditions: Web page will have information/databases that need to be saved
Main flow: <ol style="list-style-type: none">1. System will have a specified time to run each backup2. System will first save a copy of backup on local storage3. System will upload a copy of the backup to cloud storage4. End of use case
Post conditions: Website information/databases will be saved in multiple locations
Alternative Flows: None
Risk: High

Use Case: Recover information
ID : 27
Brief Description: The system will recover website data in case of emergency.
Primary Actors: ULRI system
Secondary Actors: None
Preconditions: Web page will have information/databases that need to be recovered
Main flow: <ol style="list-style-type: none"> 1. System will first seek to find the most recent backup file 2. System will attempt to recover this data from local storage 3. System will use this data to maintain the ULRI website 4. End of use case
Post conditions: Website information/databases will be recovered and reimplemented
Alternative Flows: <ol style="list-style-type: none"> 1. System will first seek to find the most recent backup file 2. System will attempt to recover this data from cloud storage 3. System will use this data to maintain the ULRI website 4. End of use case
Risk: High

Use Case: Create an event
ID: 31
Brief Description: This use case describes how an admin would create an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: No duplicate events
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to the Login page 4. User enters email in text box 5. User enters password 6. User is directed to ULRI system 7. User clicks create event 8. User is directed to create event page 9. User enter details on form 10. User clicks on create 11. User gets confirmation notification 12. Event is created in the ULRI system
Postconditions: Event is created
Alternative Flows: none
Risk: Low

Use Case: Edit an event
ID: 32
Brief Description: This use case describes how an admin would edit an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: Event must exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to the Login page 4. User enters email in text box 5. User enters password 6. User is directed to ULRI system 7. User clicks on edit event 8. User is directed to events webpage 9. User edits new details on event form 10. User clicks on confirm 11. User gets confirmation notification 12. Event is edited in the ULRI system
Postconditions: Event information is changed
Alternative Flows: none
Risk: Low

Use Case: Delete an event
ID: 33
Brief Description: This use case describes how an admin would delete an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: Event must exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to the Login page 4. User enters email in text box 5. User enters password 6. User is directed to ULRI system 7. User clicks on edit event 8. User is directed to events webpage 9. User clicks on delete event on event form 10. User clicks on confirm 11. User gets confirmation notification 12. Event is deleted from the ULRI system
Postconditions: Event is deleted
Alternative Flows: none
Risk: Low

Use Case: Create an event
ID: UC35
Brief Description: This use case describes how an admin would create an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: No duplicate events
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to the Login page 4. User enters email in text box 5. User enters password 6. User is directed to ULRI system 7. User clicks create event 8. User is directed to create event page 9. User enter details on form 10. User clicks on create 11. User gets confirmation notification 12. Event is created in the ULRI system
Postconditions: Event is created
Alternative Flows: none
Risk: Low

Use Case: Edit an event
ID: UC36
Brief Description: This use case describes how an admin would edit an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: Event must exist
Main flow: <ol style="list-style-type: none"> 1. User goes to louisville.edu/research 2. User clicks "Login" button on homepage 3. User is directed to the Login page 4. User enters email in text box 5. User enters password 6. User is directed to ULRI system 7. User clicks on edit event 8. User is directed to events webpage 9. User edits new details on event form 10. User clicks on confirm 11. User gets confirmation notification 12. Event is edited in the ULRI system
Postconditions: Event information is changed
Alternative Flows: none
Risk: Low

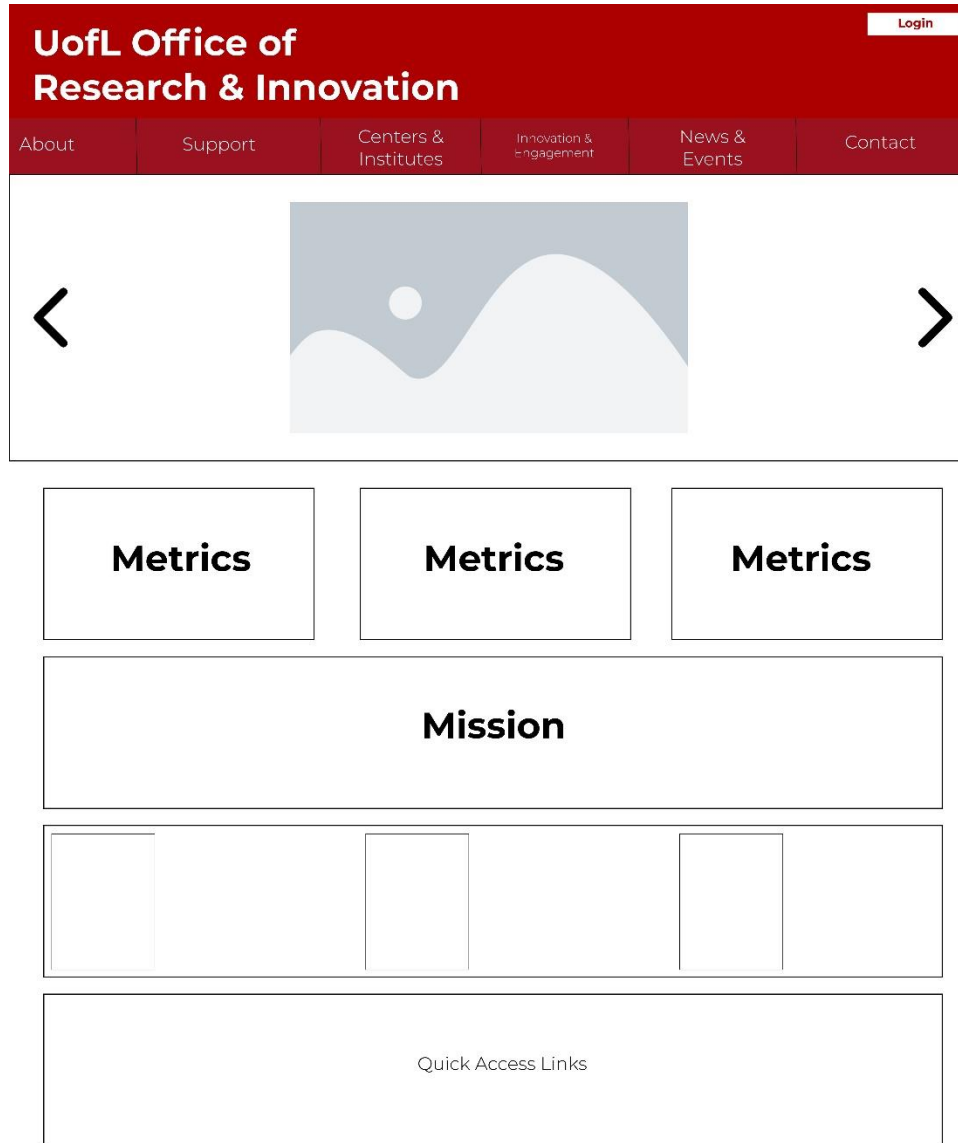
Use Case: Delete an event
ID: UC37
Brief Description: This use case describes how an admin would delete an event.
Primary Actors: Administrator
Secondary Actors: None
Preconditions: Event must exist
Main flow: <ol style="list-style-type: none">1. User goes to louisville.edu/research2. User clicks "Login" button on homepage3. User is directed to the Login page4. User enters email in text box5. User enters password6. User is directed to ULRI system7. User clicks on edit event8. User is directed to events webpage9. User clicks on delete event on event form10. User clicks on confirm11. User gets confirmation notification12. Event is deleted from the ULRI system
Postconditions: Event is deleted
Alternative Flows: none
Risk: Low

Gantt Chart

This Gantt chart outlines the distribution of the use case descriptions. In addition to completing the use case descriptions, each individual member was required to create a use case diagram describing their set of use cases.

ID	Task Name	Start	Finish	Duration	Mar 2020				
					16	17	18	19	20
1	UC 1 (Yamini)	3/16/2020	3/16/2020	1d					
2	UC 2 (Yamini)	3/16/2020	3/16/2020	1d					
3	UC 3 (Yamini)	3/16/2020	3/16/2020	1d					
4	UC 4 (Yamini)	3/16/2020	3/16/2020	1d					
5	UC 5 (Yamini)	3/16/2020	3/16/2020	1d					
6	UC 6 (Yamini)	3/16/2020	3/16/2020	1d					
7	UC 7 (Yamini)	3/16/2020	3/16/2020	1d					
8	UC 8 (Yamini)	3/16/2020	3/16/2020	1d					
9	UC 9 (MILES)	3/16/2020	3/16/2020	1d					
10	UC 10 (MILES)	3/16/2020	3/16/2020	1d					
11	UC 11 (MILES)	3/16/2020	3/16/2020	1d					
12	UC 12 (MILES)	3/16/2020	3/16/2020	1d					
13	UC 13 (MILES)	3/16/2020	3/16/2020	1d					
14	UC 14 (MILES)	3/16/2020	3/16/2020	1d					
15	UC 15 (ERIC)	3/16/2020	3/16/2020	1d					
16	UC16 (JAKE)	3/16/2020	3/16/2020	1d					
17	UC 17 (JAKE)	3/16/2020	3/16/2020	1d					
18	UC 18 (MILES)	3/16/2020	3/16/2020	1d					
19	UC 19 (MILES)	3/16/2020	3/16/2020	1d					
20	UC20 (ERIC)	3/16/2020	3/16/2020	1d					
21	UC 21 (JAKE)	3/16/2020	3/16/2020	1d					
22	UC 22(HAGAN)	3/16/2020	3/16/2020	1d					
23	UC 23 (HAGAN)	3/16/2020	3/16/2020	1d					
24	UC 24 (HAGAN)	3/16/2020	3/16/2020	1d					
25	UC 25 (HAGAN)	3/16/2020	3/16/2020	1d					
26	UC 26 (JAKE)	3/16/2020	3/16/2020	1d					
27	UC 27 (JAKE)	3/16/2020	3/16/2020	1d					
28	UC 28 (HAGAN)	3/16/2020	3/16/2020	1d					
29	UC 29 (JAKE)	3/16/2020	3/16/2020	1d					
30	UC 30 (ERIC)	3/16/2020	3/16/2020	1d					
31	UC 31 (ERIC)	3/16/2020	3/16/2020	1d					
32	UC 32 (ERIC)	3/16/2020	3/16/2020	1d					
33	UC 33 (ERIC)	3/16/2020	3/16/2020	1d					
34	UC 34 (LAXMI)	3/16/2020	3/16/2020	1d					
35	UC 35 (LAXMI)	3/16/2020	3/16/2020	1d					
36	UC 36 (LAXMI)	3/16/2020	3/16/2020	1d					
37	UC 37 (LAXMI)	3/16/2020	3/16/2020	1d					

High-Level Prototypes



This prototype describes the landing page of the ULRI website. The website navigates to an about page, a support page (breaks down into support for students, for researchers, and for industries), a centers & institutes page, innovation & engagement page, news & events page, and contact page. There is a slider gallery of recent innovation achievements. Below is a showcase of our metrics and mission statement. Below that is a calendar of events and below that is a list of quick access links.

Office of the Executive Vice President of Research and Innovation

University of Louisville
Jouett Hall
Louisville, Kentucky 40292

Phone: 502-852-6512

Email Us

Find Funding

Select funding source:

☐ Federal Grants

☐ Foundations/Nonprofits

☐ Internal Grants

Select applicable research areas:

☐ Biological Sciences

☐ Computer and Information Science

☐ Engineering

☐ Geosciences

☐ Clinical Research

☐ Social Sciences

☐ Mathematical and Physical Sciences

☐ Behavioral and Economic Sciences

☐ Education and Human Resources

Additional Keywords (optional)

Find Funding

This prototype describes how a researcher would find funding. They fill out a form in which they select funding sources and applicable research areas. The system then runs a query through the database of grants and matches the user with the most relevant funding opportunities. The user then can select the title of the grant for more information and click “save to my favorites” to save on their profile for quick access.

Find Funding

Lorem Ipsum

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Save to my favorites

Lorem Ipsum

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Save to my favorites

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Save to my favorites

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Save to my favorites

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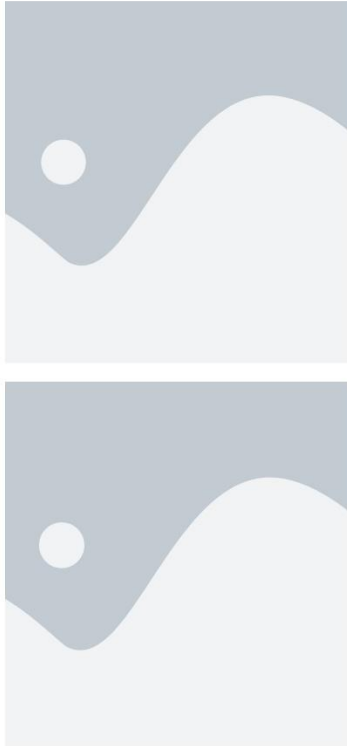
Save to my favorites

Lorem Ipsum

Lorem ipsum dolor sit amet, Lorem ipsum dolor sit amet, Lorem ipsum dolor sit amet.

Save to my favorites

Request Support



Full Name

Company Name

Email

Phone Number

Website (if applicable)

How can we help you?

- ☐ Space
- ☐ Labs
- ☐ Equipment

- ☐ Access to technologies
- ☐ Inventions and Licensing
- ☐ Researcher Support

What are your project goals?

Do you have any budgetary limitations? If so, explain below

[Submit Form](#)

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Jouett Hall
Louisville, Kentucky 40292

Phone: 502-852-6512

[Email Us](#)

This prototype describes how an industry professional would request support. They would enter their contact information and indicate what specific type of support they are looking for. They would also include their project goals and whether they have budgetary limitations. After they submit the form, their information is saved in the industry table in the ULRI database and also sent to staff so they can start addressing the request promptly.

Login to ULRI

Email Address
Password

[Forgot Password?](#)[Login](#)

Don't have an account?

Create one here

[Create Account](#)

Office of the Executive Vice President of Research and Innovation

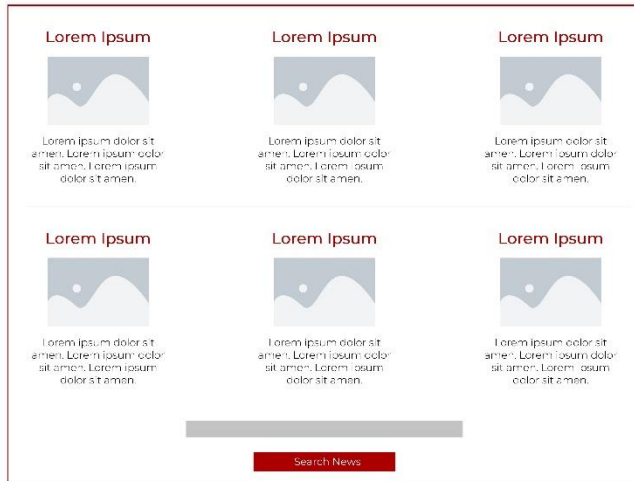
University of Louisville
Jouett Hall
Louisville, Kentucky 40292

Phone: 502-852-6512

[Email Us](#)

This prototype describes how a user would login to the ULRI system. To get to this page, they would click the white login button on the header. Then they would enter their email and password. If they forgot their password, they can click forgot password. If they have yet to create an account, they can sign up by clicking the create account button.

News



Announcements

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Events



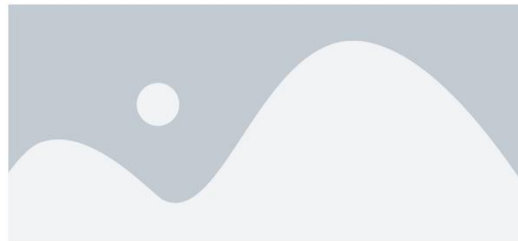
This prototype describes the News & Events page. The first block is a list of recent news articles and the user can also search through old articles using the search bar. Then the next block is a list of recent announcements (can be hyperlinks). The next block is a calendar of events for ULRI. The user can select the title of an event for more information. The user can also search through events if necessary.

Research Gala

**FEB
15**

Lorem Ipsum | Location | Time

Lorem ipsum dolor sit amet, consectetur adipiscing elit, sed do eiusmod tempor incididunt ut labore et dolore magna aliqua. Ut enim ad minim veniam, quis nostrud exercitation ullamco laboris nisi ut aliquip ex ea commodo consequat. Duis aute irure dolor in reprehenderit in voluptate velit esse cillum dolore eu fugiat nulla pariatur. Excepteur sint occaecat cupidatat non proident, sunt in culpa qui officia deserunt mollit anim id est laborum.

[Save to my favorites](#)[RSVP](#)

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University of Louisville
Jouett Hall
Louisville, Kentucky 40292

Phone: 502-852-6512

[Email Us](#)

This prototype describes how a user would RSVP for an event. After clicking on an event title for more information, the user then can find more information and details about the event. The user can save the event to their profile for quick access and also RSVP for the event.

UofL Office of Research & Innovation

[Login](#)[About](#)[Support](#)[Centers & Institutes](#)[Innovation & Engagement](#)[News & Events](#)[Contact](#)

Policies & Procedures

PDF Shortcuts

Intellectual Property & Institutional Compliance

- Institutional Compliance Plan ([PDF](#))
- Intellectual Property Policy ([PDF](#))

Research Credentialing at Affiliated Hospitals (Instructions will be included in the revised IRIS Manual)

- Credentialing Checkform, 9-11 ([PDF](#))
- Norton Form ([PDF](#))
- ULH Form ([PDF](#))

Scientific or Scholarly Merit Information

Policy for Review of Research for Scientific or Scholarly Merit and Guidance (is now included in HSPPO's HRPP Manual, Chapter 7)

- Scientific or Scholarly Merit Form ([PDF](#))
- HRPP Manual, Chapter 7 ([PDF](#))

Conflict of Interest

- Individual Conflict of Interest Policy
- Institutional Conflict of Interest Policy

Direct Costs on Externally Sponsored Programs

- Direct Costs on Externally Sponsored Programs Policy
- Charging Direct Costs to Sponsored Programs Procedure
- Direct Cost Allowability Matrix
- Guidance for Direct Charging of Administrative and Clerical Salaries to Sponsored Programs
- Guidance - Typical Direct and Indirect Costs and Examples of Unallowable Costs

(A-Z)

- Action When a Required HIPAA Authorization in Human Subjects Research is not Obtained
- Authority of the IRB
- Classified or Sensitive Research Policy
- Cost Sharing
- Definition of Sponsored Activities
- Deposit Of Checks Without Properly Executed Agreement
- Effort Reporting Alignment with Annual Workload Assignment Policy
- Ethical Conduct and Reporting of Research
- Federal Regulations, Policies, and Circulars
- Guidelines for Designating Funding, Gift Or Sponsored Program
- IRB Report of Findings Policy
- Model Procedures for Resolving Disputes in Research or Scholarly Activity
- NIH Awards: Progress Reports and Carryover Requests Procedure - moved to Research Handbook, Chapter 7.8
- Ownership of Data
- Payroll and Other Expense Transfers
- Policy Statement of Sponsored Programs
- Pre-Award Spending Policy
- Proposal Clearance Requirement
- Responding to Allegations of Research Misconduct
- Responding to Violations of University of Louisville Research Policies (Policy)
- Responding to Violations of University of Louisville Research Policies (Procedure)
- Responsible Conduct of Research Policy
- Sponsoring Visiting Researchers/Scholars for Research Purposes
- Sponsoring Visiting Students for Research Purposes
- Suspension or Termination of Previously Approved Research
- Tuition Remission for Graduate Research Assistants
- Unanticipated Problems Involving Risks to Subjects or Others

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This prototype describes how the user can find information on policies and procedures of ULRI.

UofL Office of Research & Innovation

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Institutes](#)[Innovation &
Engagement](#)[News &
Events](#)[Contact](#)

Contact Information

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Email: evpri@louisville.edu

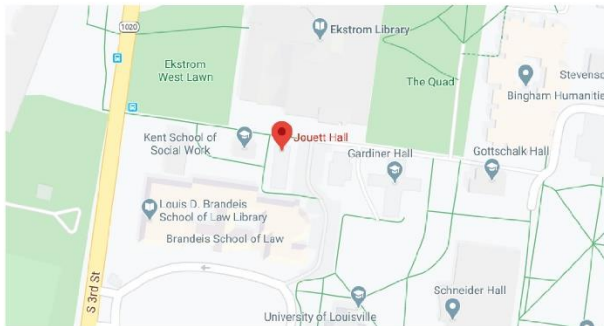
Phone: 502-852-8373

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University of Louisville

Louisville, KY 40292-0001

(40208 for UPS, FedEx)



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University of Louisville
Jouett Hall
Louisville, Kentucky 40292

Phone: 502-852-6512

[Email Us](#)

This prototype describes the Contact page for ULRI.