

Iteration 5

UofL Research & Innovation Website Renovation Vision (Small Project)

Team Added Value

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CIS 310-01

University of Louisville

Revision History

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
8/April/20	5.0	Fifth Iteration	Emily Wantland

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1. Class Diagram

- The class diagram includes all probable domain classes. It displays the structure of a system by showing the system's classes, their attributes, operations, and the relationships among objects. A class is a description of a group of objects all with similar roles in the system. The diagram is further explained with CRC Cards which are a brainstorming tool.
- The class diagram outlines the relationships and cardinality of all the classes that play an important role in the functionality of the University of Louisville Research & Innovation website.
 - For example, the Industry Proposal class is associated with the Partnership class. When the industry proposal is created, the unique “industry email” attribute will be stored in the Partnership class as well.
 - Each diagram includes the attributes the function requires and the methods to realize the function.
 - For example, the Industry Proposal class contains the attributes that the Industry user needs to provide when he/she submit the industry proposal, as well as the methods he/she can utilize when they are filling out and submitting their proposal.

Front

Class name: Student Research Application	ID: 1	Type: Concrete, Domain
Description: Students will be able to apply for research opportunities with researchers.	Associated Use Cases: 1	
Responsibilities Upload() Submit() Edit() Delete()	Collaboration Research	

Back

Attributes: Research application ID Student ID Research ID Research description
Relationships: Generalization (a-kind-of): Form Aggregation (has-parts): N/A Other Associations: Research

Front

Class name: Research Application	ID: 2	Type: Concrete, Domain
Description: The research table includes a research ID which will be unique for each research. Then researcher ID to identify the student who is participating in the research. Then information about the research starting with research name and area. Then the cost of	Associated Use Cases: 3	

this research and lastly the department that this research is part of.	
Responsibilities Enter the application information Edit the application Submit the application Delete the application	Collaboration Researcher Partnership Student research application

Back

Attributes: Research ID Researcher ID Research name Research area Research cost Department
Relationships: Generalization (a-kind-of): Form Aggregation (has-parts): N/A Other Associations: Researcher Partnership Student research application

Front

Class name: Student	ID: 3	Type: Concrete, Domain
Description: Student table contains the student information so we have student information in our databases. It contains first of all Student ID which is the unique Id for each student. The student roll number is also unique for each student. Student table must also contain student name, address and contact information. This is important to send mails that contain important information to	Associated Use Cases: 2	

the student. Student email is also the most important thing that the student will receive important emails about their application. It also will contain a student class and department.	
Responsibilities Create grant student application	Collaboration Student Log In Student Grant Application

Back

Attributes: Student ID Student roll number Student name Student address Student contact Student email Student class Student department
Relationships: Generalization (a-kind-of): Connection Aggregation (has-parts): N/A Other Associations: Student Log In Student Grant Application

Front

Class name: Student Login	ID: 4	Type: Concrete, Domain
Description: The login table contains User ID- int(7) as a unique Id for each student and Password- int(20) attributes. The User class contains two methods, enter and submit. It interacts with the User Data class to login, and the User Data class	Associated Use Cases: 1	

interacts with the Roles class to distribute permissions.	
Responsibilities: Enter() Submit() Cancel()	Collaboration: Admin

Back

Attributes: Admin ID Admin password Admin role	
Relationships: Generalization (a-kind-of): Form Aggregation (has-parts): N/A Other Associations: Admin	

Front

Class name: Data	ID: 5	Type: Concrete, Domain
Description: The admin can log into their account and backup, restore, or rebuild the website in the case of data loss	Associated Use Cases: 1	
Responsibilities Backup data Restore data	Collaboration Admin	

Back

Attributes: Data entry ID Calendar data Data entry creation date	
Relationships: Generalization (a-kind-of): Data Aggregation (has-parts): N/A	

Other Associations: Admin

Front

Class name: Researcher Funding Application	ID: 6	Type: Concrete, Domain
Description: Researchers can apply for funding to fuel their research	Associated Use Cases: 3	
Responsibilities Create funding application Submit funding application Edit funding application Re-submit funding application Delete funding application	Collaboration Research Researcher Grant	

Back

Attributes: Researcher application ID Research ID Researcher ID Department Research name Participating Student ID Requesting support Receiving support Research cost Funding notes Application date
Relationships: Generalization (a-kind-of): Form Aggregation (has-parts): N/A Other Associations: Research, Researcher, Grant

Front

Class name: Grant	ID: 7	Type: Concrete, Domain
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Description: The Grant class stores the information of grants	Associated Use Cases: 3
Responsibilities Add grants Edit grants Delete grants	Collaboration Admin Researcher Funding Application Student Grant Application

Back

Attributes: Grant ID Admin ID Grant name Grant type Grant amount Grant period Grant authority Grant description
Relationships: Generalization (a-kind-of): Document Aggregation (has-parts): N/A Other Associations: Admin, Researcher Funding Application, Student Grant Application

Front

Class name: Research	ID: 8	Type: Concrete, Domain
Description: The Research class stores the allocation of researches and researchers	Associated Use Cases: 4	
Responsibilities Enter research/researcher information Submit information	Collaboration Researcher Partnership Student Research Application Researcher Funding Application	

Back

Attributes: Research ID Researcher ID Research name Research area Research cost Department
Relationships: Generalization (a-kind-of): Connection Aggregation (has-parts): N/A Other Associations: Researcher, Partnership, Student Research Application, Researcher Funding Application

Front

Class name: Partnership	ID: 9	Type: Concrete, Domain
Description: The partnership is generated after the industry proposal is accepted	Associated Use Cases: 1	
Responsibilities Review industry proposal Assign industry proposal to researcher	Collaboration Research	

Back

Attributes: Partnership ID Partnership name Industry email Research ID Partnership description
Relationships: Generalization (a-kind-of): Connection Aggregation (has-parts): N/A Other Associations: Research

Front

Class name: Industry Proposal	ID: 10	Type: Concrete, Domain
Description: Industry users can create/edit/delete proposals to initiate research	Associated Use Cases: 1	
Responsibilities Enter proposal information Submit proposal Edit proposal Re-submit proposal Delete proposal Contact UofL staff	Collaboration Partnership	

Back

Attributes: Industry email Industry representative first name Industry representative last name Company name Company website Industry representative phone number Industry focused area Industry proposal comments
Relationships: Generalization (a-kind-of): Forms Aggregation (has-parts): N/A Other Associations: Partnership

Front

Class name: Researcher	ID: 11	Type: Concrete, Domain
Description: The information of Researcher users	Associated Use Cases: 3	

Responsibilities Enter Researcher user information Submit Researcher user information	Collaboration Profile Research Researcher Funding Application
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Back

Attributes: Researcher ID Researcher password Researcher name Researcher address Researcher email Researcher phone number Researcher class Researcher industry
Relationships: Generalization (a-kind-of): Person Aggregation (has-parts): N/A Other Associations: Profile, Research, Researcher Funding Application

Front

Class name: Newsletter	ID: 12	Type: Concrete, Domain
Description: The admin can create/edit/delete newsletters to showcase UofL research accomplishments	Associated Use Cases: 1	
Responsibilities Submit newsletters Add newsletters Edit newsletters Delete newsletters	Collaboration Admin	

Back

Attributes: Newsletter ID Newsletter title Newsletter author Newsletter description

Relationships:**Generalization (a-kind-of):** Webpages**Aggregation (has-parts):** N/A**Other Associations:** Admin**Front**

Class name: Profile	ID: 13	Type: Concrete, Domain
Description: The researchers can create profile to showcase their works	Associated Use Cases: 1	
Responsibilities Enter the profile information Edit the profile Submit the profile	Collaboration Researcher	

Back**Attributes:**

Profile ID

Researcher ID

Researcher name

Researcher industry

Researcher major

Researcher information

Relationships:**Generalization (a-kind-of):** Webpages**Aggregation (has-parts):** N/A**Other Associations:** Researcher**Front**

Class name: Admin	ID: 14	Type: Concrete, Domain
Description: The information of Admin users	Associated Use Cases: 7	

Responsibilities Add grants Modify grants Delete grants Submit newsletters Add newsletters Edit newsletters Delete newsletters	Collaboration Newsletter Grant Research & Innovation Webpages Event Surveys Data Admin Login
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Back

Attributes: Admin ID Grant ID Event ID Newsletter ID Survey ID Admin name Admin password Admin role
Relationships: Generalization (a-kind-of): Person Aggregation (has-parts): Admin Login Other Associations: Newsletter, Grant, Research & Innovation Webpages, Event, Surveys

Front

Class name: Event	ID: 15	Type: Concrete, Domain
Description: Admins can create/edit/delete the events	Associated Use Cases: 1	
Responsibilities Enter the event information Add events Edit events Delete events Submit events	Collaboration Admin	

Back

Attributes: Event ID Event name Event location Event date Event time Event details
Relationships: Generalization (a-kind-of): Events Aggregation (has-parts): N/A Other Associations: Admin

Front

Class name: Survey	ID: 16	Type: Concrete, Domain
Description: Admins can create/edit/delete surveys that are designed for students to take	Associated Use Cases: 1	
Responsibilities Enter the survey information Publish the survey Edit the survey View all surveys Re-publish the survey Delete the survey Add a question Add an option Delete a question Delete an option	Collaboration Admin	

Back

Attributes: Admin ID Survey title Survey area Question Option

Relationships:**Generalization (a-kind-of):** Surveys**Aggregation (has-parts):** N/A**Other Associations:** Admin**Front**

Class name: Admin Login	ID: 17	Type: Concrete, Domain
Description: Admins can log in to the Research & Innovation website	Associated Use Cases: 1	
Responsibilities Enter username Enter password Submit login	Collaboration Admin	

Back**Attributes:**

Admin ID

Admin password

Admin role

Relationships:**Generalization (a-kind-of):** Form**Aggregation (has-parts):** N/A**Other Associations:** Admin**Front**

Class name: Research & Innovation Webpages	ID: 18	Type: Concrete, Domain
Description: The webpages will be organized by the admins	Associated Use Cases: 1	
Responsibilities Add a link	Collaboration Admin Webpage Link	

Back

Attributes: Webpage ID Admin ID Link ID Event ID Survey ID Newsletter ID Social media ID Profile ID
Relationships: Generalization (a-kind-of): webpages Aggregation (has-parts): Webpage Links Other Associations: Admin

Front

Class name: Webpage Links	ID: 19	Type: Concrete, Domain
Description: The admin can add links to the webpages to different UofL departments or different content	Associated Use Cases: 1	
Responsibilities Add a link	Collaboration Research & Innovation Webpages	

Back

Attributes: Link ID Webpage ID Admin ID Link page name Link page department
Relationships: Generalization (a-kind-of): webpages Aggregation (has-parts): N/A Other Associations: Research & Innovation Webpages

2. Database Design and Database Definitions

- The Data Management Layer Design take part in different steps:

0 Normal Form

Do any tables have repeating fields? Do some records have a different number of columns from other records?	Yes: Remove the repeating fields. Add a new table that contains the fields that repeat.
	No: The data model is in 1NF

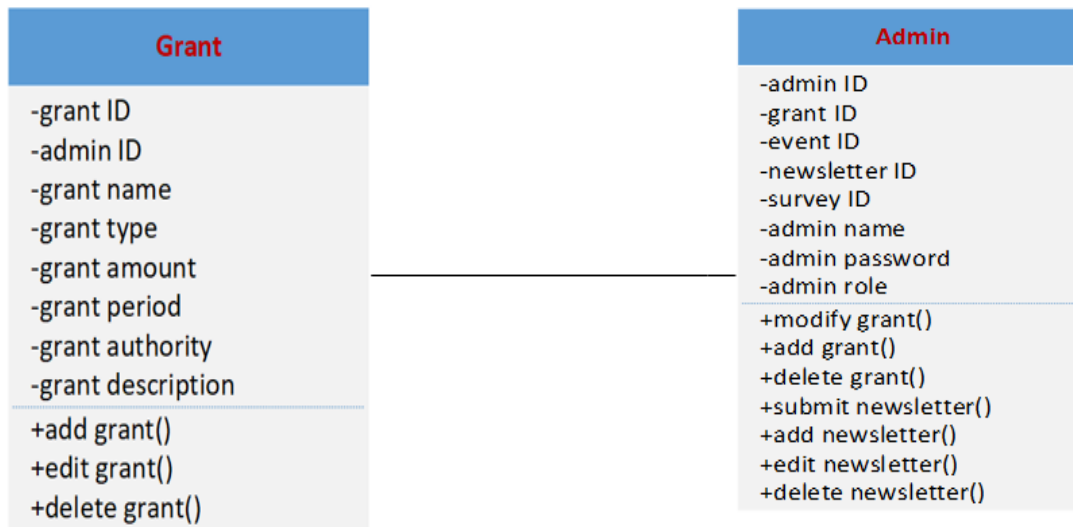
First Normal Form

Is the primary key made up of more than one field? If so, do any fields depend on only a part of the primary key?	Yes: Remove the partial dependency. Add a new table that contains the fields that are partially dependent.
	No: The data model is in 2NF

Second Normal Form

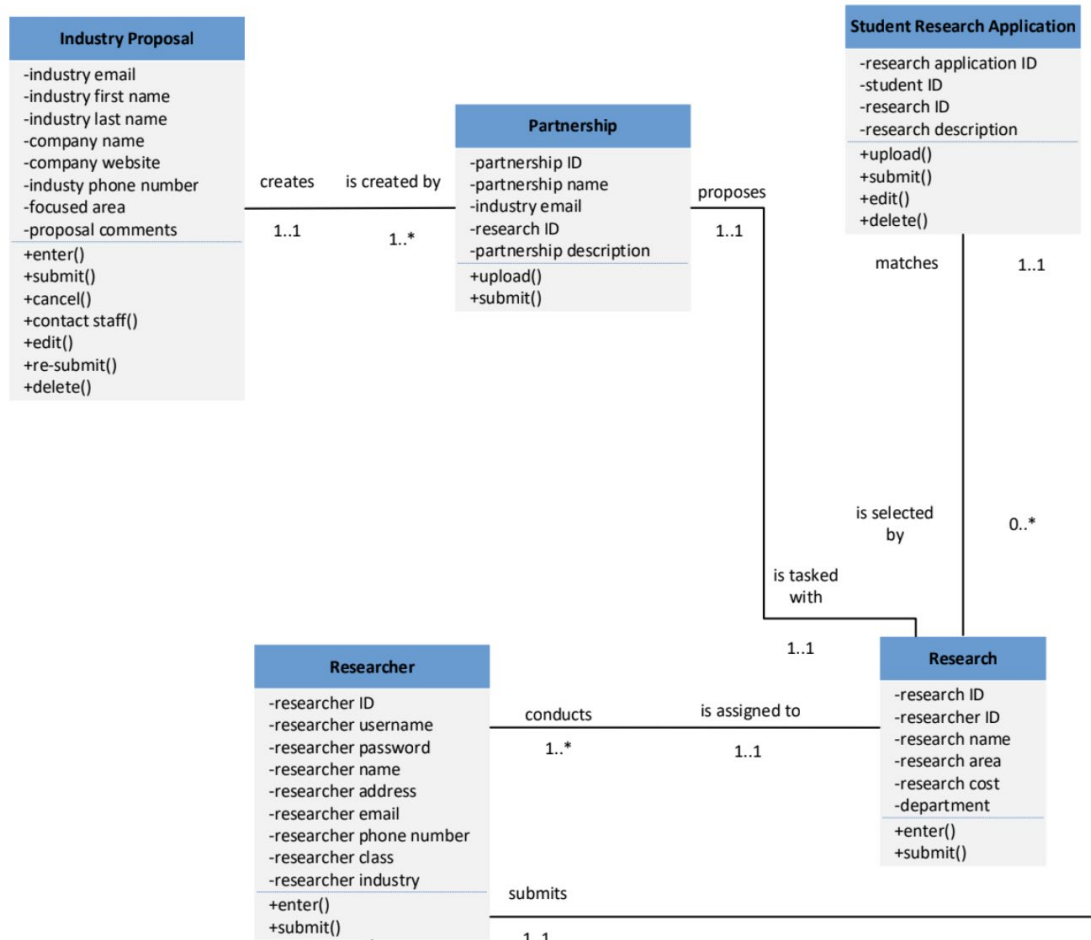
Do any fields depend on another nonprimary key field?	Yes: Remove the transitive dependency. Add a new table that contains the fields that are transitively dependent.
	No: The data model is in 3NF

Third Normal Form



Example

In these two tables the admin ID in the admin table will serve as part of the primary key of the Grant table. Now if we have any records that are repeated will delete it. We did not have any repeats.



Research ID will serve as the primary key of the Researcher table.

Research ID will serve as part of the primary key of Research.

Research ID will serve as Foreign key of Research.

Researcher ID will serve as part of the primary key of Research.

Researcher ID will serve as Foreign key of Research.

Research ID will serve as part of the primary key of the Partnership.

Research Application ID will serve as part of the primary key of the Research application.

Research ID will serve as Foreign key of the Research application.

Research ID will serve as part of the primary key of the Partnership.

Partnership ID will serve as part of the primary key of the Partnership.

Partnership ID will serve as Foreign key of the Partnership.

Eliminate Redundancy

Researcher Username and password was moved to Researcher Table to eliminate redundancy. Research description was moved from research table to just research application table to eliminate redundancy.

Data Descriptions

Research Application
-research application ID
-student ID
-research ID
-research description
+upload()
+submit()
+edit()
+delete()

Research Application Table

Student ID - Int(9)

Research ID- Int(9)

Research Description - Varchar(200)

Narrative

The research application table, we decided that we will have tables for each type of application since we have other applications like student application and funding application. This table is just to contain the student ID which will be int 9 numbers as it is always like this and we do not want to waste space in the memory. Also this table will contain a Research ID to identify each research that the university is doing. Each research will have a unique ID. We decided that it will also be 9 numbers. And lastly research description to add any notes about this research and it is char type 200.

Researcher Funding Application
-research application ID
-research ID
-researcher ID
-department
-research name
-student ID
-requesting support
-receiving support
-research cost
-funding notes
-application date
+create funding application()
+edit funding application()
+re-submit funding application()
+delete funding application()

Researcher Funding Application Table

Project Name - Varchar(30)
 Department - Varchar(30)
 Research Area - Varchar(30)
 Researcher Name - Varchar(40)
 Student ID - Int(9)
 Requesting Support - int(8)
 Receiving Support -int(8)
 Research Cost - int(8)
 Notes - Varchar(200)
 Date -Date(8)

Narrative

Funding application table contains the project name to define each project that they will fund. Department Varchar(30) to know this research is for which department in the university.

Research Area Varchar(30) to specify the research area exactly that this research will serve to. Researcher Name Varchar(40), Student ID Int(9). Requesting Support int(8) to specify the amount of the requesting support. Receiving Support int(8) if the researcher had support before. Research Cost int(8) to estimate how much this research will cost. Notes Varchar(200) we make sure that on almost every table here has a note which is to give the applicant an option to add anything that he/she wants. Date-Date(10) it is like a sign and to specify when the applicants complete their application.

Student Grant Application

- application ID
- application name
- application date
- application grant name
- application description

- +add application()
- +edit application()
- +delete application()

Student Grant Application Table

Application ID - int(9)
Application Name - Varchar(10)
Application Date - Date(8)
Application Grant Name -Varchar(20)
Application Description -Varchar(200)

Narrative

The Student Application Table contains an application ID which is going to be unique for each application. Then application name and details about the application. Date to specify the date that the applicant completed and sent their application. Application details to let the applicant add whatever they want.

Student

- student ID
- student roll number
- student name
- student address
- student contact
- student email
- student class
- student department

- +create student application()

Student Table

student ID - int(9)
student roll number - int(6)
student name - Varchar(20)
student address - Varchar(30)
student contact - int(10)
student email - varchar(20)
student class - varchar(10)
student department - varchar(20)

Narrative

Student table contains the student information so we have student information in our databases. It contains first of all Student ID which is the unique Id for each student. The student roll number is also unique for each student. Student tables must also contain student name, address and contact information. This is important to send mails that contain important information to the student. Student email is also the most important thing that the student will receive important emails about their application. It also will contain a student class and department.

Researcher
-researcher ID -researcher username -researcher password -researcher name -researcher address -researcher email -researcher phone number -researcher class -researcher industry
+enter() +submit()

Researcher Table

researcher ID - int(7)
 researcher username - Varchar(6)
 researcher password - Varchar(20)
 researcher name - Varchar(15)
 researcher address - Varchar(30)
 researcher email - Varchar(20)
 researcher phone number - int(10)
 researcher class - Varchar(10)
 researcher industry - Varchar(10)

Narrative

Researcher table will contain the main information about the researcher. Starting with the unique researcher ID. then researcher username and password to let the researcher log in to the website and log in to their application. Also it will contain the researcher name and address if there is any mail should be sent to the researcher. Also it will contain their emails, phone number, class and which industry that they are in.

Partnership
-partnership ID -partnership name -industry email -research ID -partnership description
+upload() +submit()

Partnership Table

partnership ID - int(10)
 partnership name - varchar(20)
 industry email - varchar(20)
 research ID - int(10)
 partnership description - varchar(200)

Narrative

Partnership table consists of partnership ID- int(10) then partnership name- varchar(20)industry email-varchar(20).research ID-int(7) as we choose in the partnership table. Partnership description-varchar(200) to give an option for any additional notes.

Research	
-research ID	research ID - int(10)
-researcher ID	researcher ID - int(7)
-research name	research name - varchar(15)
-research area	research area - varchar(20)
-research cost	research cost - int(7)
-department	department - varchar(20)
+enter()	
+submit()	

Narrative

The research table includes a research ID which will be unique for each research. Then researcher ID to identify the student who is participating in the research. Then information about the research starting with research name and area. Then the cost of this research and lastly the department that this research is part of.

Grant
-grant ID
-admin ID
-grant name
-grant type
-grant amount
-grant period
-grant authority
-grant description
+add grant()
+edit grant()
+delete grant()

Grant Table

grant ID - int(10)
 admin ID - int(7)
 grant name - varchar(20)
 grant type - varchar(10)
 grant amount - int(7)
 grant period - varchar(10)
 grant authority - varchar(10)
 grant description - varchar(200)

Narrative

In this table it is explaining the grant information and it also includes admin ID. The admin class holds admin's attributes and the grant class holds grants attributes. The client after seeing this class model will get an impression of the detailed attributes and the associated method regarding the function to modify grants use case. The admin class interacts with the grants class to modify or delete the already existing grant having one to many multiplicity relations. Both classes have an association relationship with each other. In this table we have grant Id which will be unique to each grant. Admin ID as we described above. Grant name, type to identify this grant which type it will be then grant amount int(6). Grant period to specify this grant will be given in which semester. Then grant authority and description to add more details.

Student Login
-student ID
-student password
+enter()
+submit()
+cancel()

Student Login Table

student ID - int(7)
 student password - int(20)

Narrative

The login table contains User ID-int(7) as a unique Id for each student and Password-int(20) attributes. The User class contains two methods, enter and submit. It interacts with the User Data class to login, and the User Data class interacts with the Roles class to distribute permissions.

Industry Proposal	
-industry email	industry email - int(20)
-industry first name	industry first name - varchar(12)
-industry last name	industry last name - varchar(12)
-company name	company name - varchar(20)
-company website	company website - varchar(20)
-industry phone number	industry phone number - int(10)
-focused area	focused area - int(6)
-proposal comments	proposal comments - varchar(200)
+enter()	
+submit()	
+cancel()	
+contact staff()	
+edit()	
+re-submit()	
+delete()	

Narrative

When the industry partner goes to UofL Research & Innovation website, they click on the tab that leads them to the page designed for industry users. When the industry partners go to the page, they will see a section dedicated for “Industry Request”, and when they click on the button “Industry Request Form”, they will be directed to a new page with three buttons. They can click on the create, edit or delete Industry Request Form” button. After clicking the button if they want to create or edit, they will see a box prompting them to enter the email address int(20)that is associated with the proposal. After entering the matching email address, the application is consist of industry first name-varchar(12)industry last name-varchar(12)company name-varchar(20) company website-varchar(20)industry phone number-int(10)focused area-int(6) proposal comments-varchar(200) the system traces back the proposal, then the industry representative can make changes to the industry proposal/request they have already submitted using the information they have. They click on the “Re-submit” button and the changes will be sent to the UofL Research &Innovation Office for review and stored in the UofL database.

Profile	Profile Table
-researcher ID	researcher ID - int(7)
-researcher name	researcher name - varchar(20)
-researcher industry	researcher industry - varchar(20)
-researcher school	researcher school - varchar(20)
-researcher major	researcher major - varchar(20)
-researcher information	researcher information - varchar(50)
+enter()	
+edit profile()	
+submit()	

Narrative

In order to create a profile, then the researcher will first have to log in to the Research and Innovation website. After this they will be prompted to create their profile including basic information, and research bio researcher ID-int(7) researcher name-varchar(20) researcher industry-varchar(20) researcher school-varchar(20) researcher major-varchar(20) researcher information-varchar(50) This will then become public on the website for other researchers, industries, and administration to see.

Admin	Admin Table
-admin ID	admin ID - int(7)
-grant ID	grant ID - int(10)
-event ID	event ID - int(10)
-newsletter ID	newsletter ID - int(10)
-survey ID	survey ID - int(10)
-admin name	admin name - varchar(20)
-admin password	admin password - varchar(20)
-admin role	admin role - varchar(20)
+modify grant()	
+add grant()	
+delete grant()	
+submit newsletter()	
+add newsletter()	
+edit newsletter()	
+delete newsletter()	

Narrative

Admins go to the Research & Innovation website, and click on the "Log In" tab, then he/she will be directed to the login page. After he/she enters the designated username and password, the database will verify the credentials and allow the admin to log in. The admin table will contain every ID that the admin has. Which in our project admin ID-int(7), grant ID-int(10), event ID-int(10), newsletter ID-int(10), survey ID-int(10), admin name-varchar(20), admin password-varchar(20), admin role-varchar(20)

Surveys
-admin ID -survey title -survey area -question 1 -option 1
+enter() +submit() +edit() +view all survey() +create survey() +publish survey() +re-publish survey() +cancel() +delete survey() +contact staff()

Surveys Table

admin ID - int(10)
survey title - varchar(20)
survey area - varchar(15)
question 1 - varchar(20)
option 1 - varchar(10)

Narrative

Admin goes to the Research & Innovation website, and logs in. Admin clicks on “Resource” tab, and clicks on “View All Surveys” in the Survey section. After being directed to the survey page, admin clicks on the “Create Survey” which contains survey title-varchar(20), survey area-varchar(15), question 1-varchar(20), option 1-varchar(10). Then the survey is completed, the admin clicks on the button “Publish Survey”. Admin can also modify and delete the survey.

Event
-event ID -event name -event location -event date -event time -event details
+enter() +add event() +edit event() +delete event() +submit()

Event Table

event ID - int(10)
event name - varchar(20)
event location - varchar(20)
event date - varchar(8)
event time - varchar(20)
event details - varchar(200)

Narrative

The Event table is a mix between the administrator class and the event class. Admin table which holds the information the system holds for each admin after the system acknowledges this information, they can therefore connect to the events class and edit the information for an event from that class. This is a one to many relationship because an admin can edit more than one event if they like. The event class contain event ID-int(10)which is unique to identify each event, event name-varchar(20), event location-varchar(20), event date-varchar(8), event time-varchar(20), event details-varchar(200).

Newsletter
-newsletter ID -newsletter title -newsletter author -newsletter description
+submit newsletter() +add newsletter() +edit newsletter() +delete newsletter()

Newsletter Table
 newsletter ID - int(10)
 newsletter title - varchar(20)
 newsletter author - varchar(20)
 newsletter description - varchar(200)

Narrative

The Newsletter table contains a newsletter ID which is unique for each newsletter. It is important to have a newsletter to keep everyone updated about the latest news. It also contains a newsletter title, newsletter author, newsletter description.

Data
-data entry ID -calendar data -data entry creation time
+store Data() +restore Data()

Backup Data Table
 Data entry ID - varchar
 Calendar Date - date
 Data entry creation time - time

Narrative

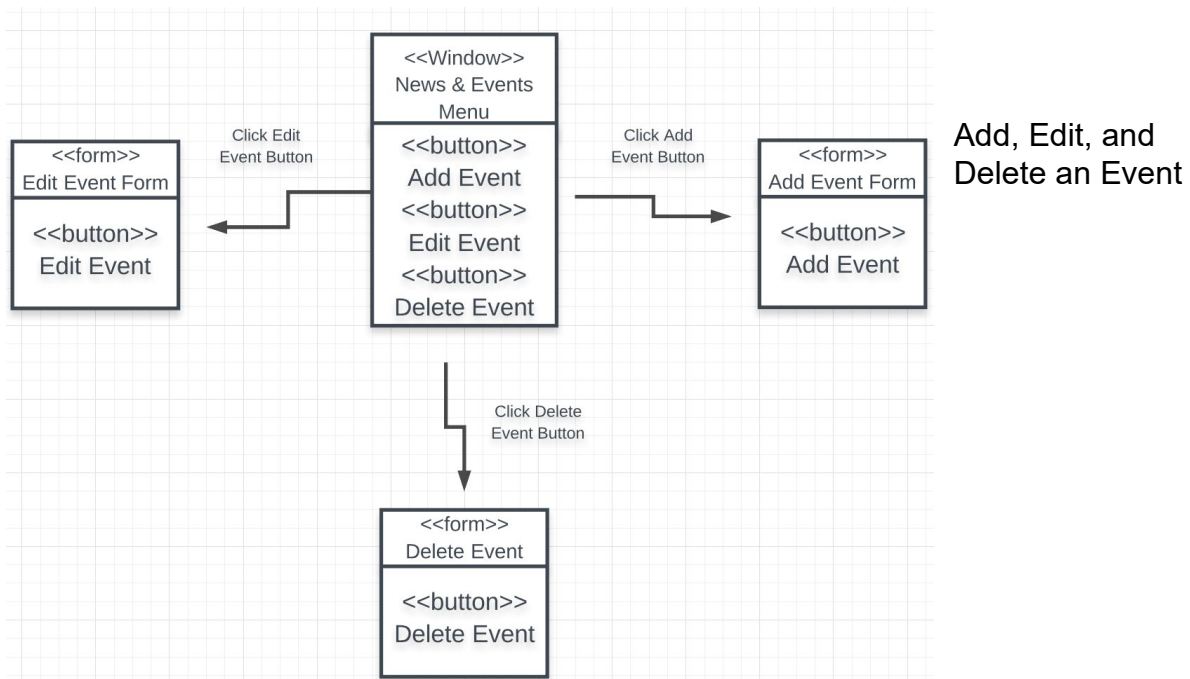
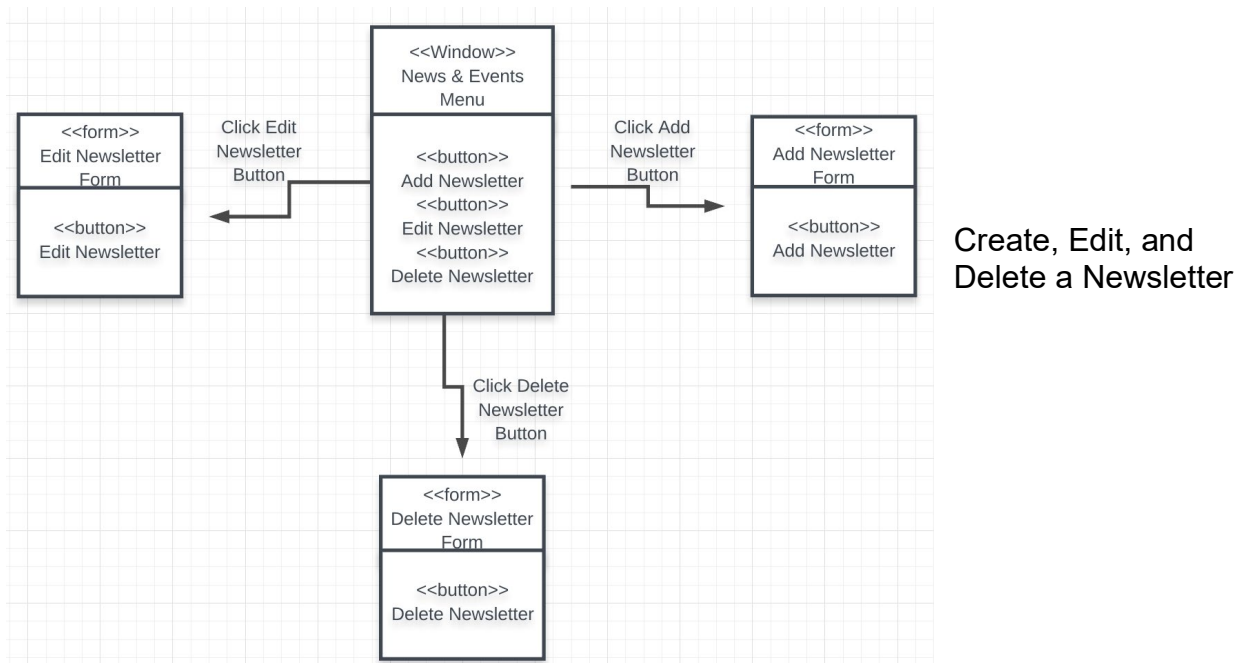
This data table describes the flow of action through which the actor (admin) logs into the system and starts a data backup and restoration. The system verifies their permissions and allows them access to this functionality.

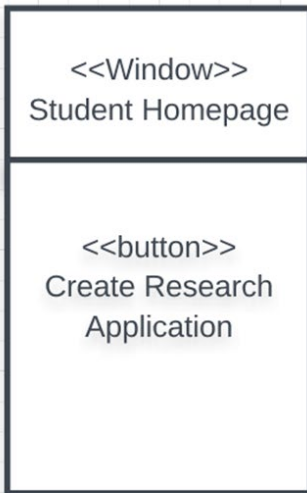
The backup data class diagram contains Data, Calendar Date, and Time attributes. The class contains one method, store data. It interacts with the restore data class because the data must be accessed for a rebuild.

The class contains one more method, restore data. It interacts with the backup data class because the data must be accessed for a rebuild.

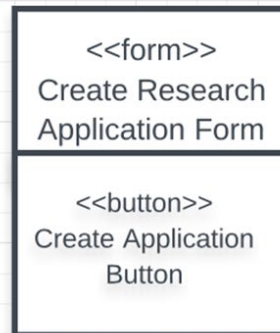
3. User Interface Navigation Diagram and Screen Layouts

- The Window Navigation Diagram depicts the screens needed to realize the use cases. The screen layouts are captured from the HTML prototype and realize the use cases.

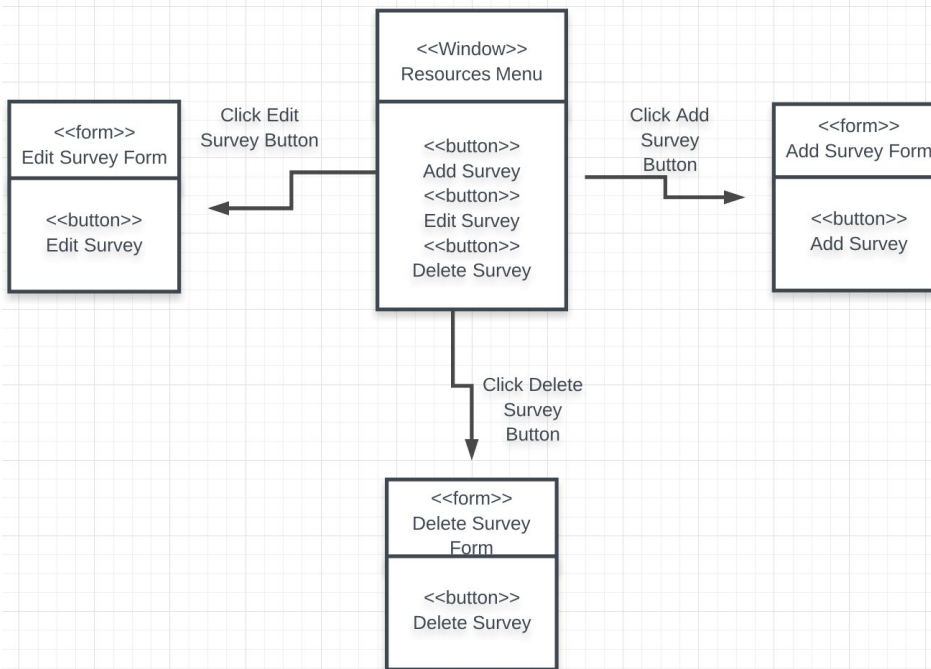




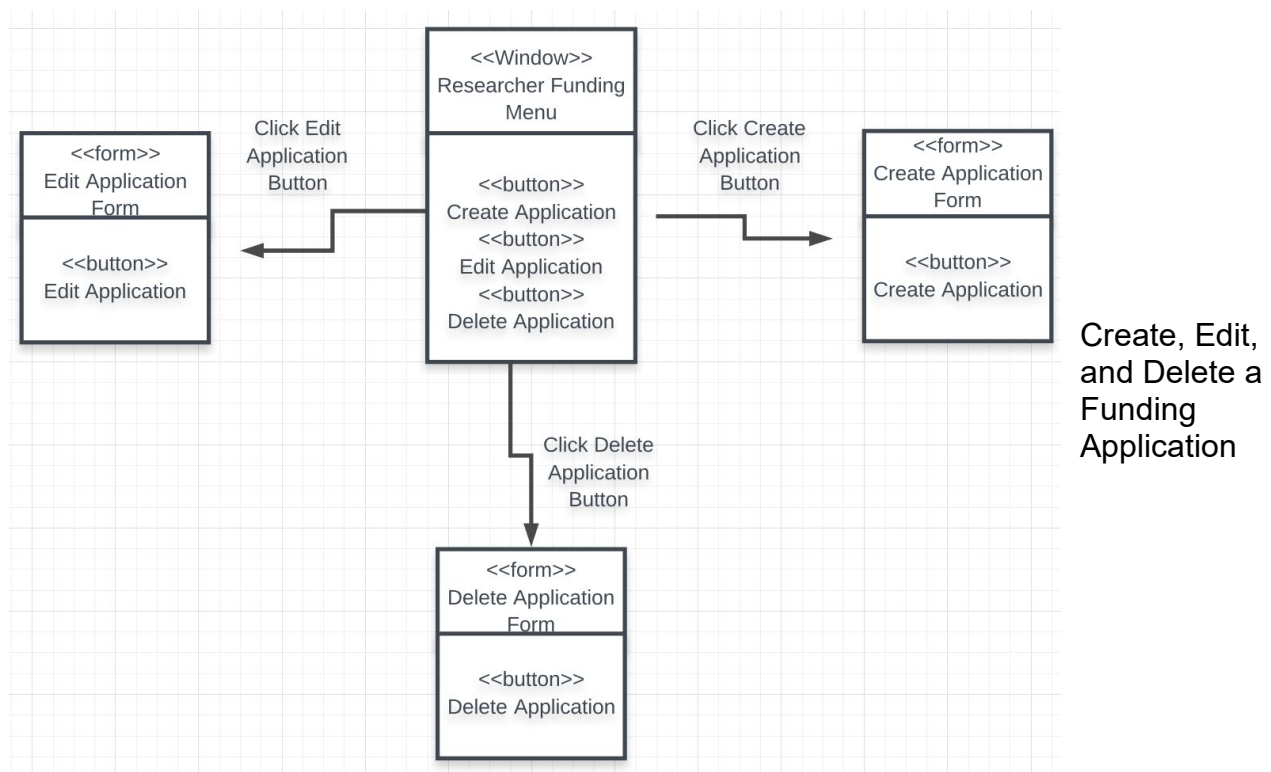
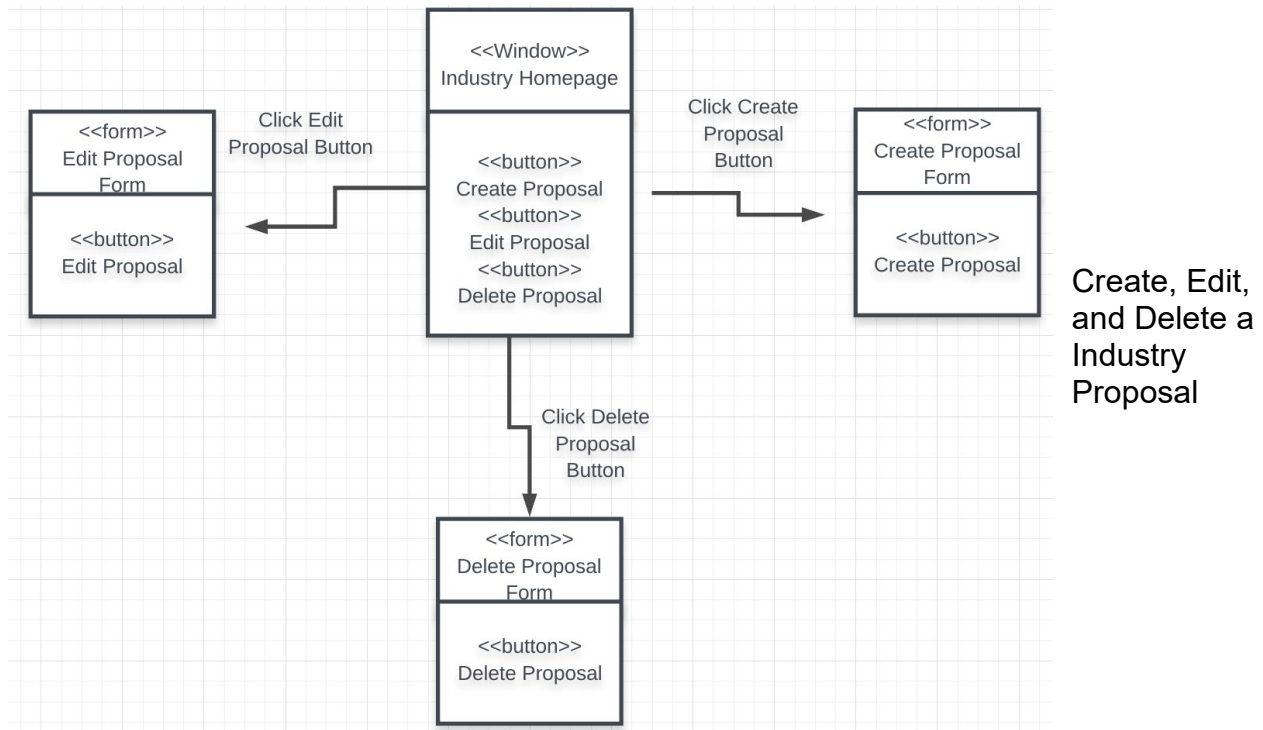
Click Create
Application
Button

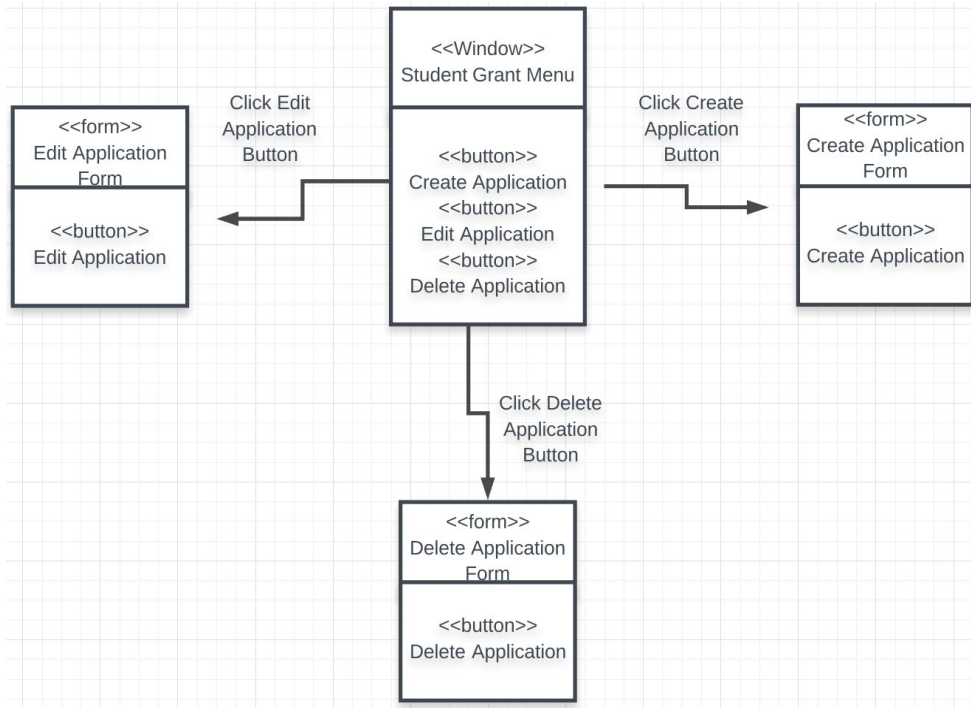


Create Research
Application

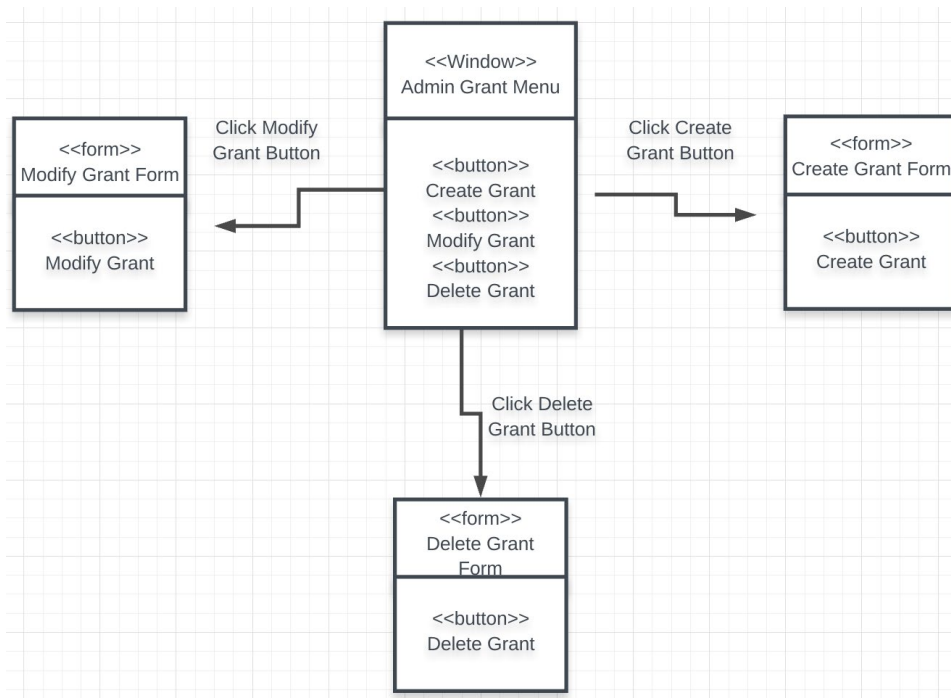


Create, Edit, and
Delete a Survey

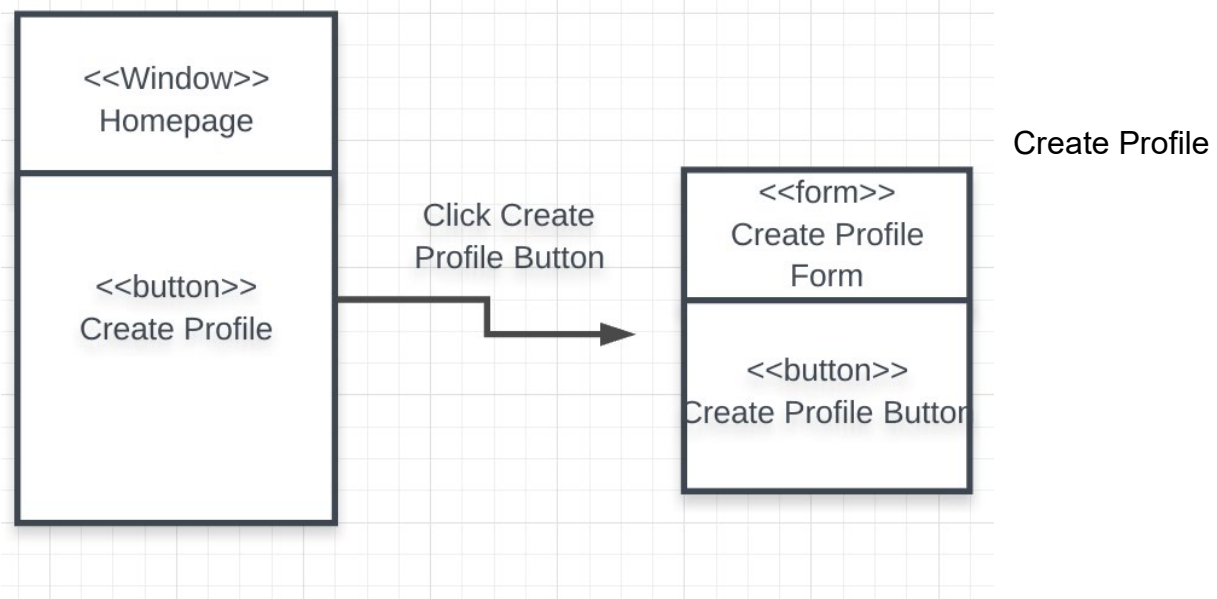
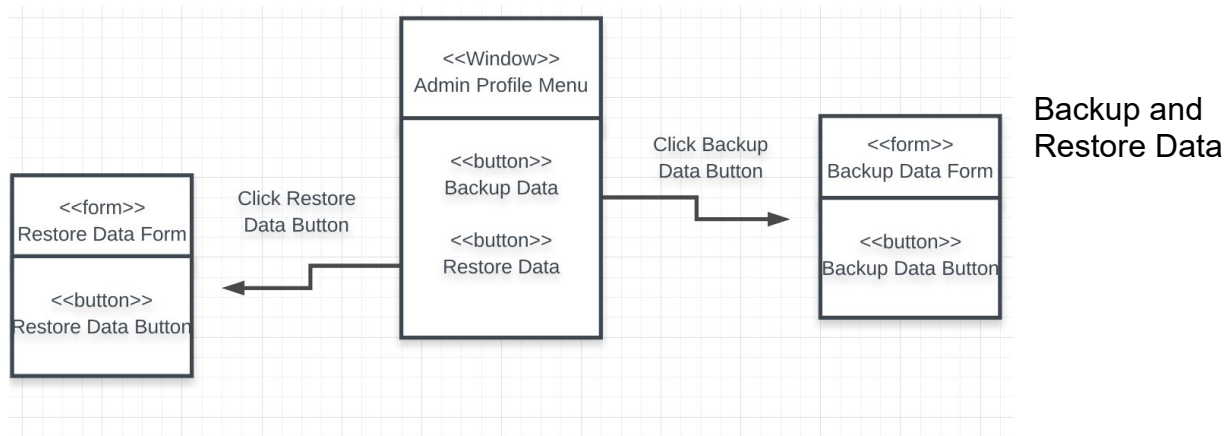
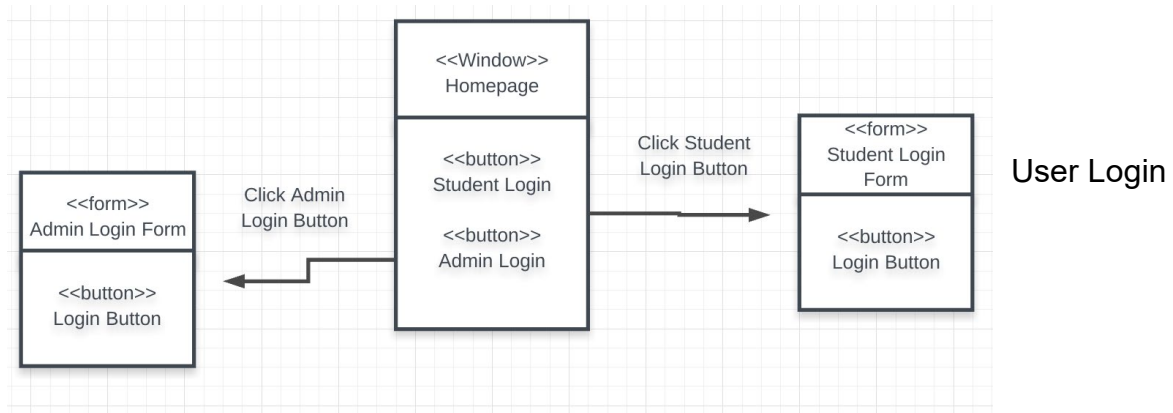


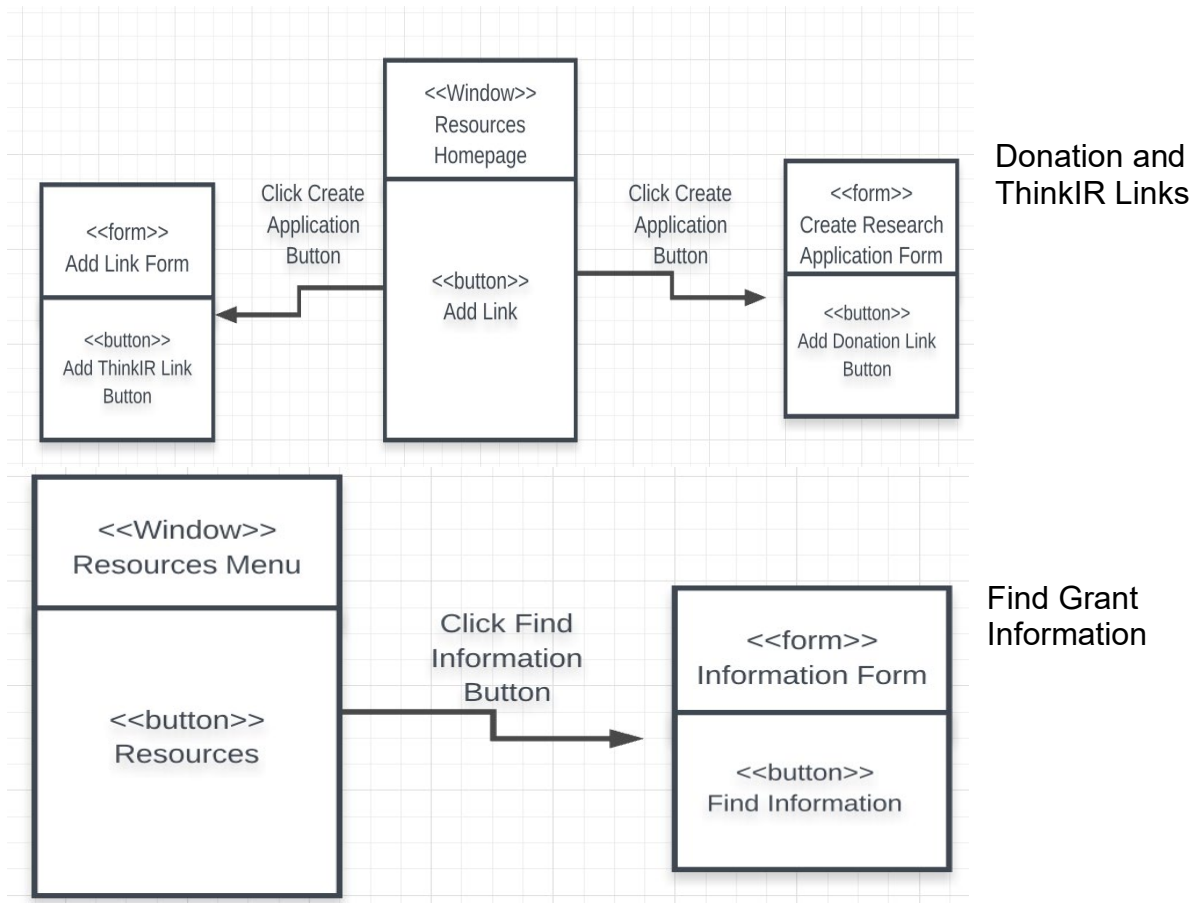


Create, Edit, and Delete a Grant Application



Create, Edit, and Delete a Grant






UC 1 – Create Research Application

- Students can find the research application module which includes a link to the form.

Create Research Application



Research Application

> [Create Research Application](#)

[Apply](#)
[Review](#)
[profile](#)

Description: This Research will focus on microbiology. You will be performing several labs and reports.


Requirements:

No file chosen

Documents Uploaded

UC 2 – Update Information on Current Partnerships

- Admins can find this module under the For Industry tab. After locating the Current Partnerships module, they will be able to update information via a form.



Current Partnerships

- > [Update Information on Current Partnerships](#)

Update Information on Current Partnerships

Partner #1 Title 1

Description: This Research will focus on microbiology. You will be performing several labs and reports.

Requirements:


URL:

www.partner1website.com

Submit

UC 3 – Add Weekly Updates to Newsletter

- Admins can find this module under the News and Events tab. After locating the Newsletter module, they will be able to create a newsletter via a form.



Newsletter

- > [Add weekly updates to Newsletter](#)
- > [Delete Newsletter](#)
- > [Edit Newsletter](#)

BACK

Add Weekly updates to Newsletter

Newsletter

Title:

Enter Title

Author:


Enter Author

Content:

Submit

UC 4 – Delete Newsletter

- Admins can find this module under the News and Events tab. After locating the Newsletter module, they will be able to delete a newsletter.



Newsletter

- > [Add weekly updates to Newsletter](#)
- > [Delete Newsletter](#)
- > [Edit Newsletter](#)

Delete Newsletter


You are deleting this newsletter

Confirm

Cancel

UC 5 – Edit Newsletter

- Admins can find this module under the News and Events tab. After locating the Newsletter module, they will be able to edit a newsletter.



Newsletter

- > [Add weekly updates to Newsletter](#)
- > [Delete Newsletter](#)
- > [Edit Newsletter](#)

Edit Newsletter

Newsletter


Title:

Author:

Content:

UC 6 – Find Information

- The student can find this module under the For Students tab. Clicking the reroute link opens a form that allows the student to search for grants.



Find Information

- > [Find Information Form](#)

Search Information

Find Grant Information

Enter Grant Search :

Display Grant Information

Grant ID Grant Name


Grant Type Grant Amount Period

Concerned Authority

Grant Details

UC 7 – Create Grants

- The admin can find this module under the For Researchers tab. Clicking the link reroutes them to a form that allows them to create a grant.



Grants

- > [Create Grants](#)
- > [Delete Grants](#)

Create Grants

Grant ID Grant Name


Grant Type Grant Amount Period

Concerned Authority

Grant Detail

UC 8 – Modify Grants

- The admin can find this module when logging in. Clicking the link reroutes them to a form that allows them to modify a grant.



ADMINISTRATOR

Admin Resources


- > [Modify Grants](#)
- > [Backup Data](#)
- > [Restore Data](#)

Modify Grants

Grant ID	<input type="text"/>	Grant Name	<input type="text"/>
Grant Type	<input type="text"/>	Grant Amount	<input type="text"/>
Period	<input type="text"/>		
Concerned Authority	<input type="text"/>		
Grant Detail	<input type="text"/>		

UC 9 – Delete Grants

- The admin can find this module under the For Researchers tab. Clicking the link reroutes them to a form that allows them to delete a grant.



Grants


- > [Create Grants](#)
- > [Delete Grants](#)

Delete Grants

Grant ID	<input type="text"/>	Grant Name	<input type="text"/>
Grant Type	<input type="text"/>	Grant Amount	<input type="text"/>
Period	<input type="text"/>		
Concerned Authority	<input type="text"/>		
Grant Detail	<input type="text"/>		

UC 10 – Create Grant Application

- The student can find this module under the For Students tab. Clicking the link reroutes them to a form that allows them to create a student application.



Student Application


- > [Student Application Form](#)
- > [Edit Student Application](#)
- > [Delete Student Application](#)

Create Student Application

Application ID	<input type="text"/>	Application Name	<input type="text"/>
Application Date	<input type="text"/>	Application Grant Name	<input type="text"/>
Application Details	<input type="text"/>		
Student Roll No.	<input type="text"/>	Student Name	<input type="text"/>
Student Class	<input type="text"/>	Student Department	<input type="text"/>

UC 11 – Edit Grant Application

- The student can find this module under the For Students tab. Clicking the link reroutes them to a form that allows them to edit a student application.



Student Application

- > [Student Application Form](#)
- > [Edit Student Application](#)
- > [Delete Student Application](#)


Edit Student Application

Student Username Student Password

List of application that student applied to

UC 12 – Delete Grant Application

- The student can find this module under the For Students tab. Clicking the link reroutes them to a form that allows them to delete a student application.



Student Application

- > [Student Application Form](#)
- > [Edit Student Application](#)
- > [Delete Student Application](#)


Delete Student Application

Student Username Student Password

List of application that student applied to

UC 13 – Create Funding Application

- The researcher can find this module under the For Researchers tab. Clicking the link reroutes them to a form that allows them to create a funding application.



Funding Application

- > [Create Funding Application](#)
- > [Edit Funding Application](#)
- > [Delete Funding Application](#)

Create Funding Application

Name of the Project Name

Department Student Id

Research Area UoII Email

student Id

Are you requesting support for this project from any other unit? if yes, give name of unit and amount of support requested

Are you receiving support for this project from any other UoII unit? if yes, give name of unit and amount of support

Explanation and justification of major costs:

Check here if this is a resubmission ☐


Additional Notes

Date

UC 14 – Edit Funding Application

- The researcher can find this module under the For Researchers tab. Clicking the link reroutes them to a form that allows them to edit a funding application.

Edit Funding Application



Funding Application

- > [Create Funding Application](#)
- > [Edit Funding Application](#)
- > [Delete Funding Application](#)

List of application

Name of the Project <input type="text"/>	Name <input type="text"/>
Department <input type="text"/>	Student Id <input type="text"/>
Research Area <input type="text"/>	Uofl Email <input type="text"/>
	student Id <input type="text"/>

Are you requesting support for this project from any other unit? if yes, give name of unit and amount of support requested

Are you receiving support for this project from any other Uofl unit? if yes, give name of unit and amount of support

Explanation and justification of major costs:

Check here if this is a resubmission ☐

Additional Notes

Date

UC 15 – Delete Funding Application

- The researcher can find this module under the For Researchers tab. Clicking the link reroutes them to a form that allows them to delete a funding application.



Funding Application

- > [Create Funding Application](#)
- > [Edit Funding Application](#)
- > [Delete Funding Application](#)


Delete Funding Application

List of application

Student ID

UC 16 – Create Industry Proposal

- The industry partner can find this module under the For Industry tab. Clicking the link reroutes them to a form that allows them to create an industry proposal.



Industry Request

- > [Industry Request Form](#)
- > [Edit industry proposal](#)
- > [Delete Industry Proposal](#)

Create Industry Proposal

If you have any question, please contact our staff [Contact Staff](#)

Email:

First Name: Last Name:

Company Name:

Website(if applicable) :

Day Time Phone Number :

How can we Help you?


☐ space
☐ Labs, equipment
☐ Access to Technologies, Inventions and licensing
☐ Research support

Tell us more about your project goals, any research or interest areas, and any budgetary limitations, if applicable

[Submit](#) [Cancel](#)

UC 17 – Edit Industry Proposal

- The industry partner can find this module under the For Industry tab. Clicking the link reroutes them to a form that allows them to edit an industry proposal.



Industry Request

- > [Industry Request Form](#)
- > [Edit industry proposal](#)
- > [Delete Industry Proposal](#)

Edit industry proposal

If you have any question, please contact our staff [Contact Staff](#)

Email:

First Name: Last Name:

Company Name:

Website(if applicable) :

Day Time Phone Number :

How can we Help you?


☐ space
☐ Labs, equipment
☐ Access to Technologies, Inventions and licensing
☐ Research support

Tell us more about your project goals, any research or interest areas, and any budgetary limitations, if applicable

[Re-submit](#) [Cancel](#)

UC 18 – Delete Industry Proposal

- The industry partner can find this module under the For Industry tab. Clicking the link reroutes them to a form that allows them to delete an industry proposal.



Industry Request

- > [Industry Request Form](#)
- > [Edit industry proposal](#)
- > [Delete Industry Proposal](#)

Delete Industry Proposal

If you have any question, please contact our staff [Contact Staff](#)

Please enter the mail address associated with the proposal you have submitted

Email:

[Submit](#) [Cancel](#)

Delete Industry Proposal


If you have any question, please contact our staff [Contact Staff](#)

April 2, 2020 - [Industry Request Form 2](#) [Delete](#)

March 30, 2020 - [Industry Request Form](#) [Delete](#)

UC 19 – Add Surveys

- The admin can find this module under the Resources tab. Clicking the link reroutes them to a form that allows them to create a survey.



Survey

- > [Add Survey](#)
- > [Edit/Delete Survey](#)

Edit industry proposal

Survey Title:

Survey Area:

- ☐ space
- ☐ Labs, equipment
- ☐ Access to Technologies, Inventions and licensing
- ☐ Research support

Question 1:

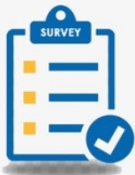
Option.... 1:

[Add a Option](#) [Add a Question](#)

[Public Survey](#) [Cancel](#)

UC 20 – Edit Survey

- The admin can find this module under the Resources tab. Clicking the link reroutes them to a page that gives them the option to edit or delete a survey, when edit is clicked, a form pops up that allows them to edit it.



Survey

- > [Add Survey](#)
- > [Edit/Delete Survey](#)

Log In To Edit Survey

Username:

Password:

Confirm

Cancel

Select To Edit Survey

Survey 1

Edit Survey

Delete Survey

Edit Survey

Survey Title:

Survey Area:

- ☐ space
- ☐ Labs, equipment
- ☐ Access to Technologies, Inventions and licensing
- ☐ Research support

Question 1:

Option... 1:

Add a Option

Add a Question

Re-public Survey

Cancel

UC 21 – Delete Survey

- The admin can find this module under the Resources tab. Clicking the link reroutes them to a page that gives them the option to edit or delete a survey.



Survey

- > [Add Survey](#)
- > [Edit/Delete Survey](#)

Log In To Edit Survey

Username:

Password:

Confirm

Cancel

Select To Edit Survey


Survey 1

Edit Survey


Delete Survey

UC 22 – Log In

- When clicking the log in tab, the user can access the Log In module. A link titled Log In Here takes them to a form. When clicking other links throughout the website, an user that is not logged in will be prompted to log in before accessing information.




LOGIN



Log In

[Log In Here](#)
[Update Profile](#)


Login

Login - Research and Innovation

User ID :

Password :

Submit

Cancel

[Forgot User ID or Password](#)

Log In To Create Survey

Username:


Password:

Confirm

Cancel

UC 23 – Backup Data


- An admin can access the Admin Resources module under the Log In tab. Clicking the link takes them to a form that will start the backup process.



ADMINISTRATOR

Admin Resources

[Modify Grants](#)
[Backup Data](#)
[Restore Data](#)


Backup Data


Research and Innovation Backup Service

Backup Your Data to a drive and restore them if the originals are lost or destroyed

Backup

UC 24 – Restore Data

- An admin can access the Admin Resources module under the Log In tab. Clicking the link takes them to a form that will prompt them to start the restoration process by choosing a backup.



ADMINISTRATOR

Admin Resources

- > [Modify Grants](#)
- > [Backup Data](#)
- > [Restore Data](#)

Restore Data

Research and Innovation Data Restoration Service

Restore Your Data if the originals are lost or destroyed

Restore

UC 25 – Create Profiles

- A researcher will be prompted to create a profile when they log in for the first time, anytime after that they will be able to update it. They can find this functionality in the Log In module under the Log In tab. They will be able to create a profile to showcase their work.



LOG IN



Log In

- > [Log In Here](#)
- > [Update Profile](#)



Insert Picture

My Account

Profile

Name of school :

Current Major :

Contact Email :

Enter Full Name :

Graduation Date :


Additional Details :

Save Profile

UC 26 – Add Event

- The admin can find the Events module under the News and Events tab. Clicking the link reroutes them to a page that gives them the option to create, edit, or delete an event, when New Event is clicked, a form will pop up.

New Event
Edit Event
Delete Event



Events

> [Event Form](#)


Event Name	Event Location
mm/dd/yyyy	--:-- --
Events Details	

submit

UC 27 – Edit Event

- The admin can find the Events module under the News and Events tab. Clicking the link reroutes them to a page that gives them the option to create, edit, or delete an event, when Edit Event is clicked, a form will pop up.

New Event
Edit Event
Delete Event



Events

> [Event Form](#)


Event Name	Event Location
mm/dd/yyyy	--:-- --
Events Details	

submit

UC 28 – Delete Event

- The admin can find the Events module under the News and Events tab. Clicking the link reroutes them to a page that gives them the option to create, edit, or delete an event, when Delete Event is clicked, a form will pop up.

New Event
Edit Event
Delete Event



Events

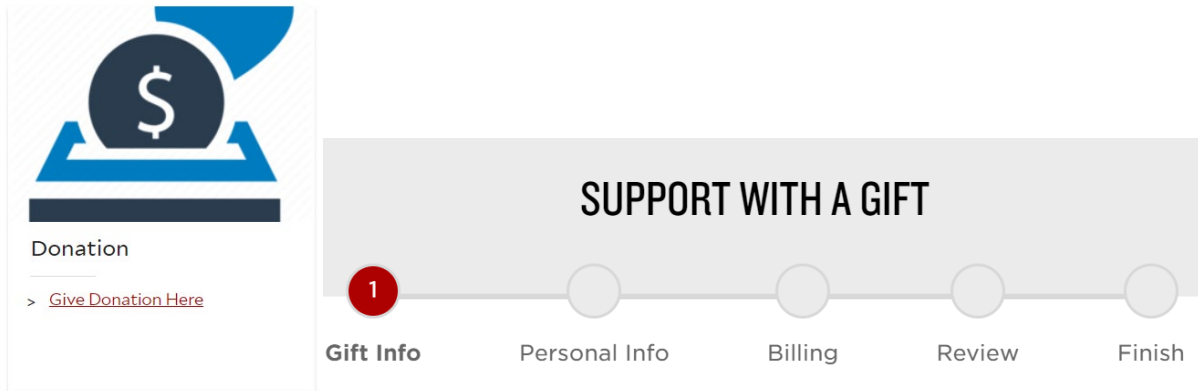
> [Event Form](#)

Event Name	Event Location
mm/dd/yyyy	--:-- --
Events Details	

submit

UC 29 – Link The Donation Process Directly to UofL Development Departments

- User will be able to donate directly to the university when clicking the donation link found under the resources tab. It will reroute them to the University's development department's website.



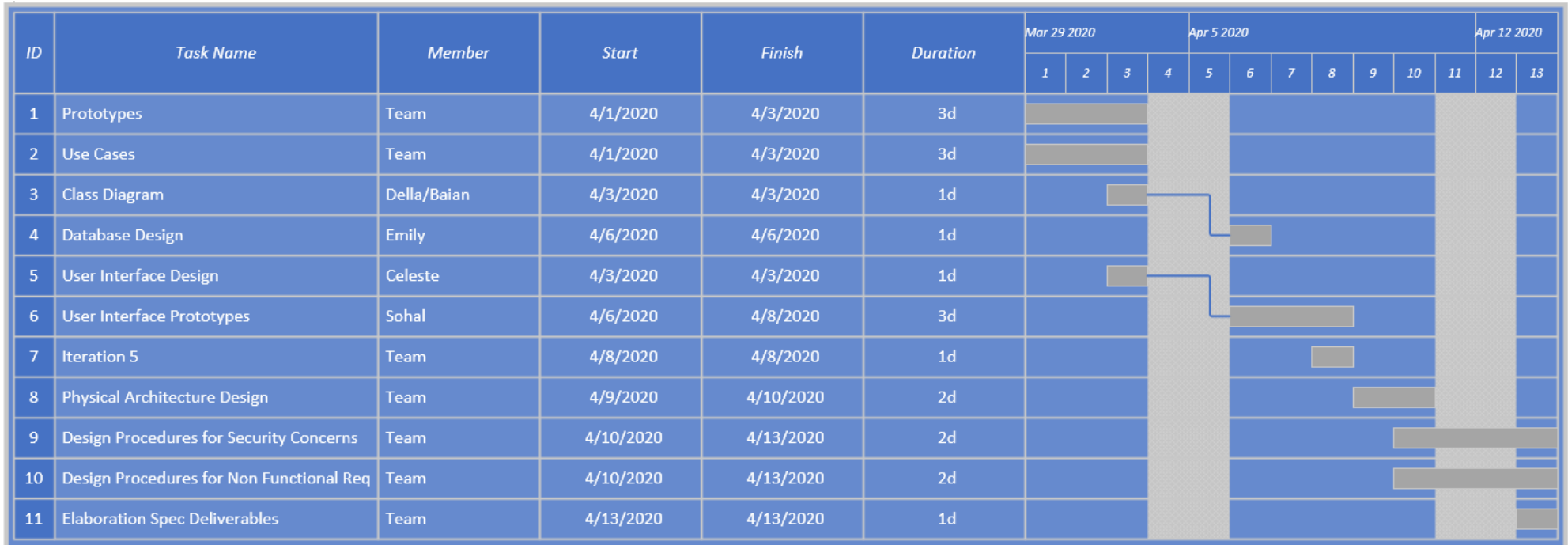
UC 30 – Link ThinkIR to the Research Page

- Users will be able to access ThinkIR after clicking its link under the For Researchers tab. It will reroute them to the ThinkIR website so they can log in.



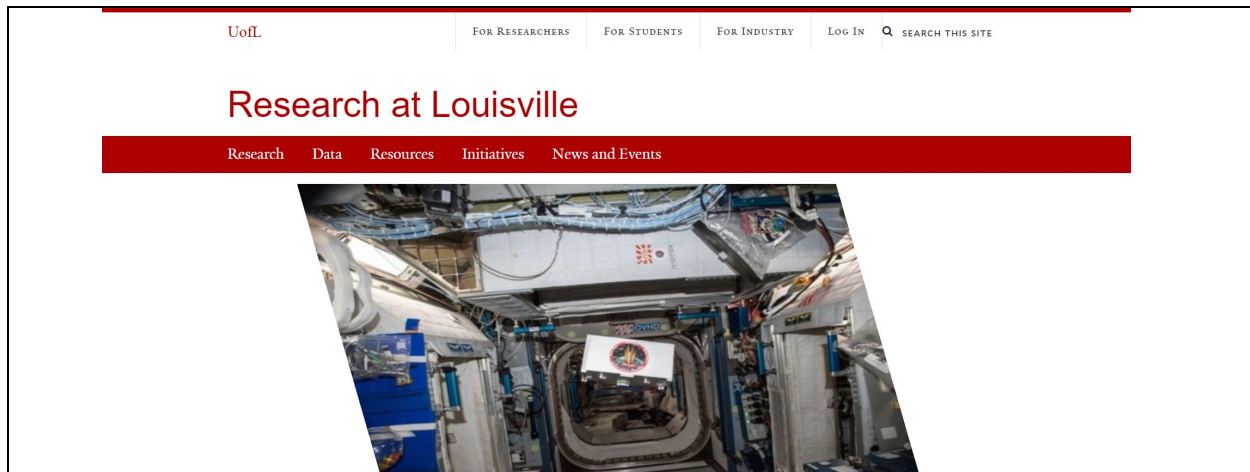
4. Gantt Chart

- 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.



5. Prototype

- A mock-up/demo of what the website will look like when it goes live. A fully functional HTML website that realizes all of the use cases presented in previous iterations.
- Link: <http://pictureintext.net/pro/>



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.