Branches: A Mentor System for UofL

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Agenda



The Problem

- Estimated 8% attrition rate of CIS Student Body
 - 44 students each year * \$ 14,000 in tuition per year over 5 years= \$3,080,000 in lost revenue
- Lack of community within student body
- Lacking sense of engagement between alumni and the university
- No streamlined donation process for CIS
 - Assume \$100 donation per month x 12 months = \$1200 in potential revenue lost

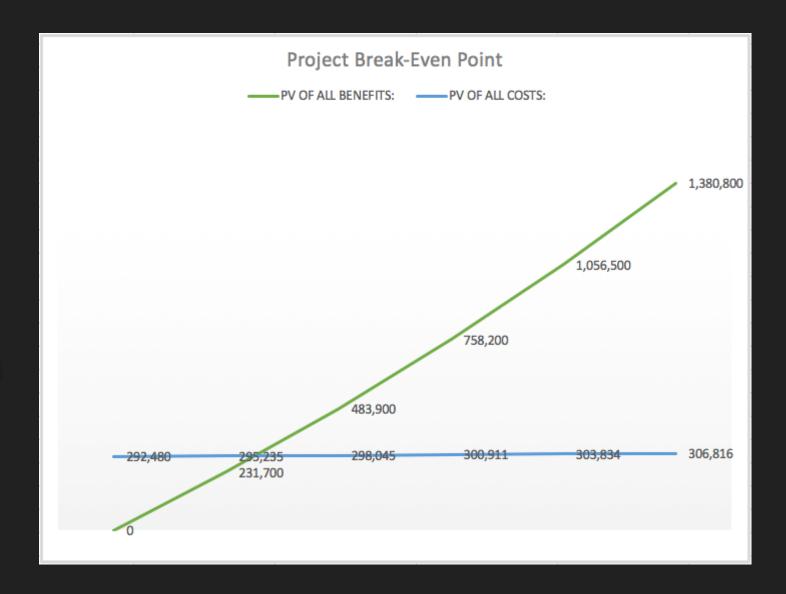
Our Solution

- To create a CIS Mentor Program that will:
- ✓ Foster a sense of community among CIS students
- Establish a support system for students
- ✓ Build relationships between students and alumni
- ✓ Ultimately see a rise in the CIS graduation rate
- Engage alumni after graduation
- Facilitate easy donations

Financial Projections

Financial Information

- Benefits surpass costs 1.25
 years after implementation
- Student retention, increased program donation generates potential >1M in revenue after 5 years



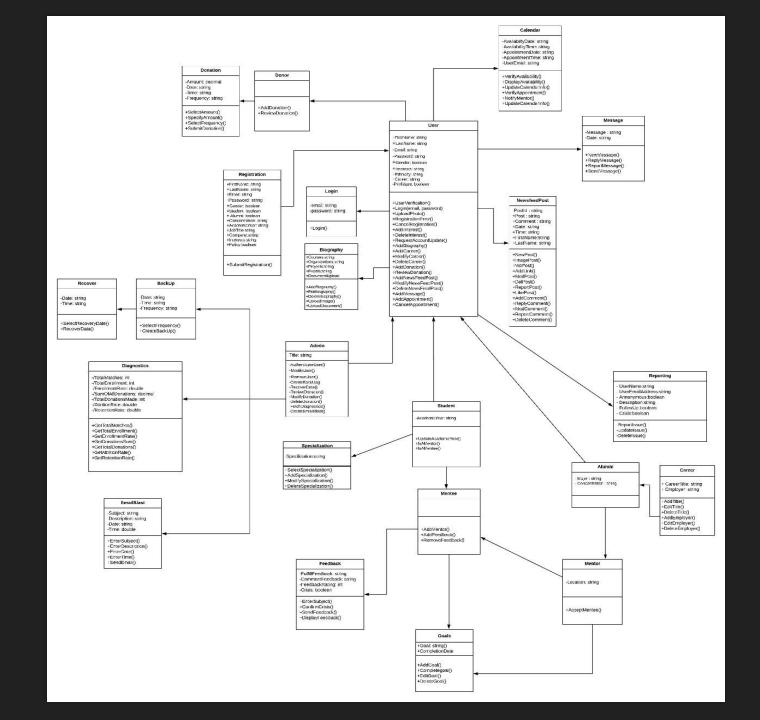
Cost-Benefit Analysis

ASSUMPTIONS /OUTCOMES	As-is	Conservative	Slightly Conservative	Expected	Slightly Optimistic	Optimistic
Retention Rate	92%	94%	95%	96%	97%	98%
# of Students Exiting	44	33	28	22	17	11
Total Donors	0	10	15	20	25	30
Average Donation	0	10	20	30	40	50
Lost Revenue (1 year)	\$616,000	\$462,000	\$392,000	\$308,000	\$238,000	\$154,000
Revenue Retained (1 year)	<u>\$0</u>	<u>\$154,000</u>	<u>\$224,000</u>	<u>\$308,000</u>	<u>\$378,000</u>	<u>\$462,000</u>

Data Overview Preview

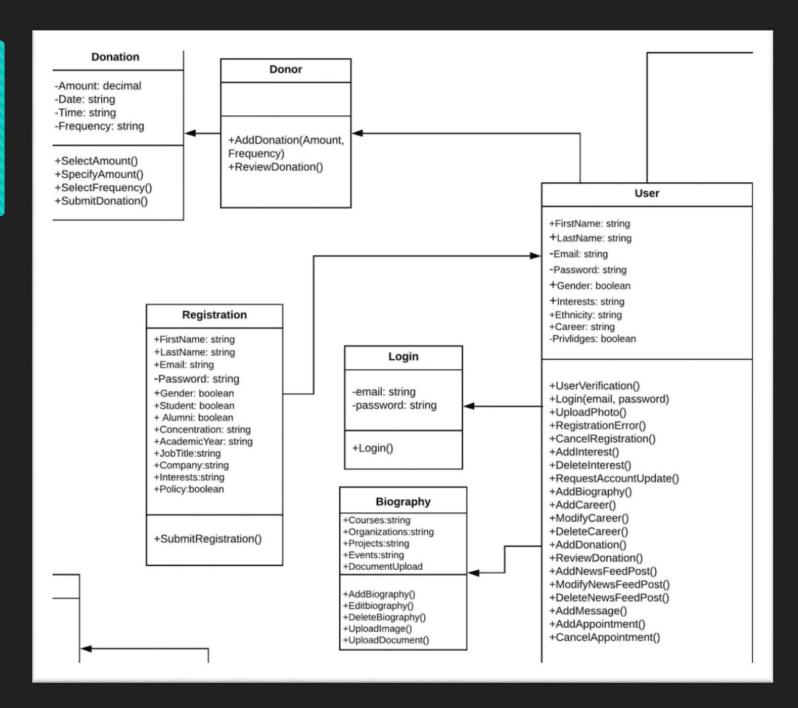
Class Preview

- This Class Diagram shows the foundation of the Branches system & how each class within the system will interact to ultimately stem the CIS attrition problem.
- Derived from use case verb-noun analysis

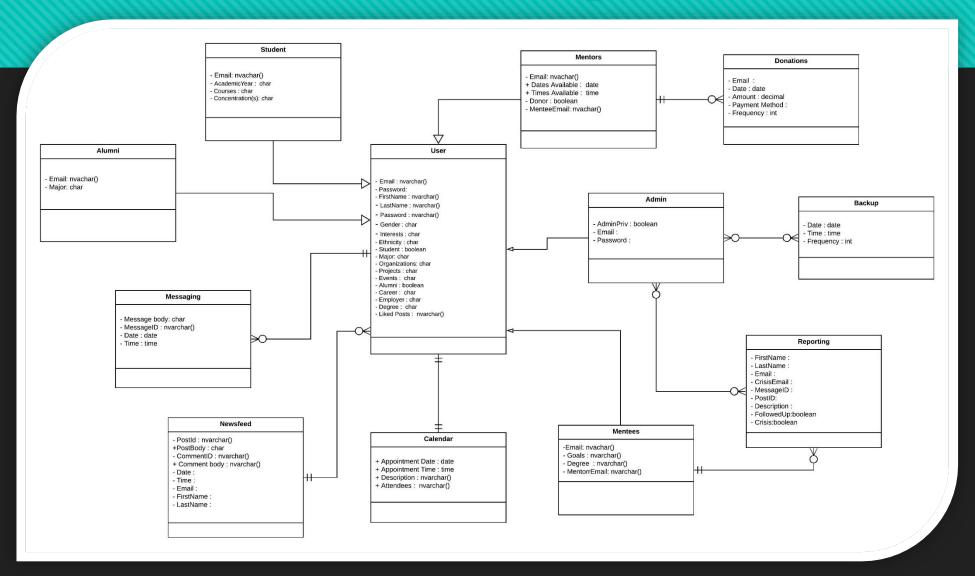


Class Diagram Snapshot

- A class is like a blueprint to a house, while an object is like a house built from that blueprint.
- +SubmitRegistration()
- +Login(email, password)
- +AddDonation(amount, frequency)



Entity Relationship Diagram



Site Navigation & Prototypes

Logged in Admin

System Overview: User Navigation Diagram

- Most functionality restricted to registered users
- Donors may not be registered users

Prototypes

Branches for UofL



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http://brancheslou.com

Branches

For UofL

Home About Resources Contact User Login Donation

Welcome to Branches:

A Tool Created by UofL Students for UofL Students

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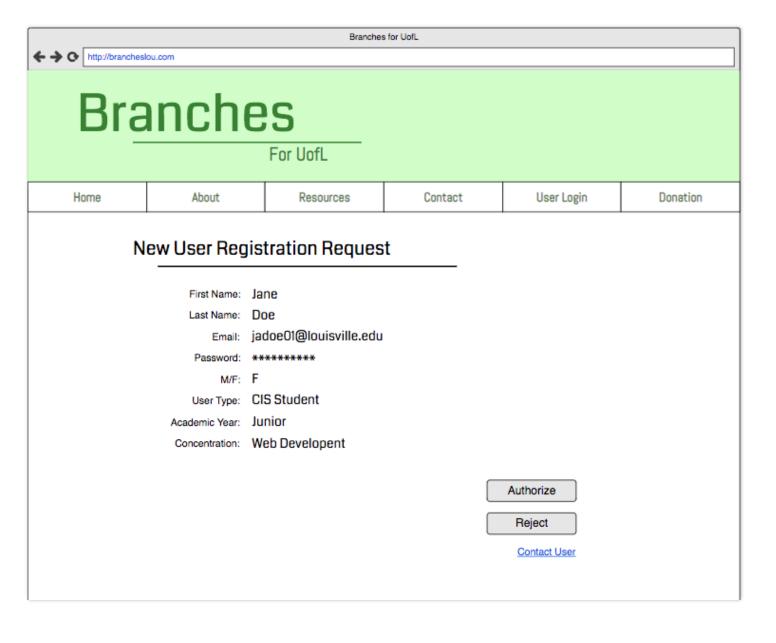
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Welcome Screen

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	Last Name Email				Academic Year	
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User Registration Prototype

New User Registration Request: Admin View



Profile Prototype: User View

Branches for UofL

← → ○ http://brancheslou.com

Branches

For UofL

Home About Resources Contact User Login Donation

Profile Calendar News Feed Messaging Mentor Center Help & Feedback



Sally User

University of Louisville - Junior Information Security Expected Graduation: December 2020



About Sally

Hometown: Louisville, KY

Age: 21

Ethnicity: Nepali

Biography:

I'm a gemini vegetarian, and my best bud is a small chihuahua mix named Bruiser who I rescued last year. I am very involved in my campus Gay-Straight Alliance and volunteer at the local humane society in my spare time.

Ask Me About:

- CIS 150 Fund. of Info Sys
- CIS 199 Soft Dev I
- CIS 300 Comp Info Sys

Social Links











Volunteer, Kentucky Humane Society

2017 - Present (2 years) | Louisville, KY

GSA, UofL

Jan 2019 - Present (2 months) | Louisville, KY

Interests C# JAVASCRIPT READING RUNNING

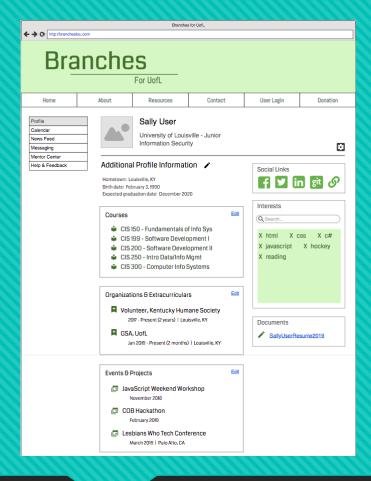
Documents

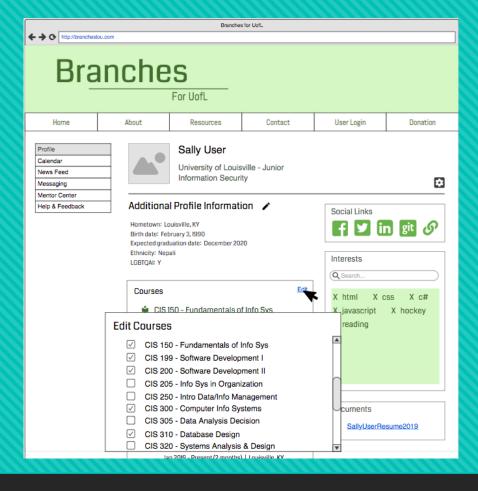
Check Out My Resume

Events & Projects

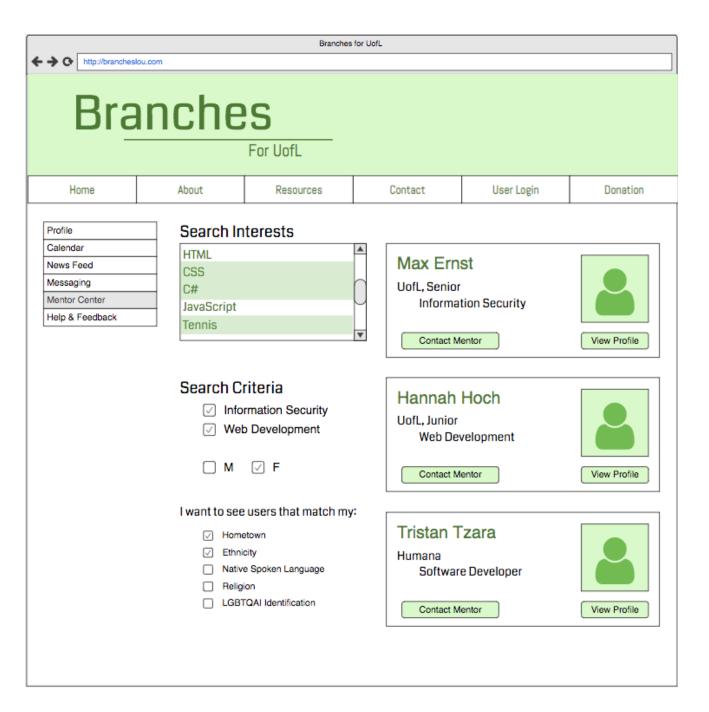


November 2018



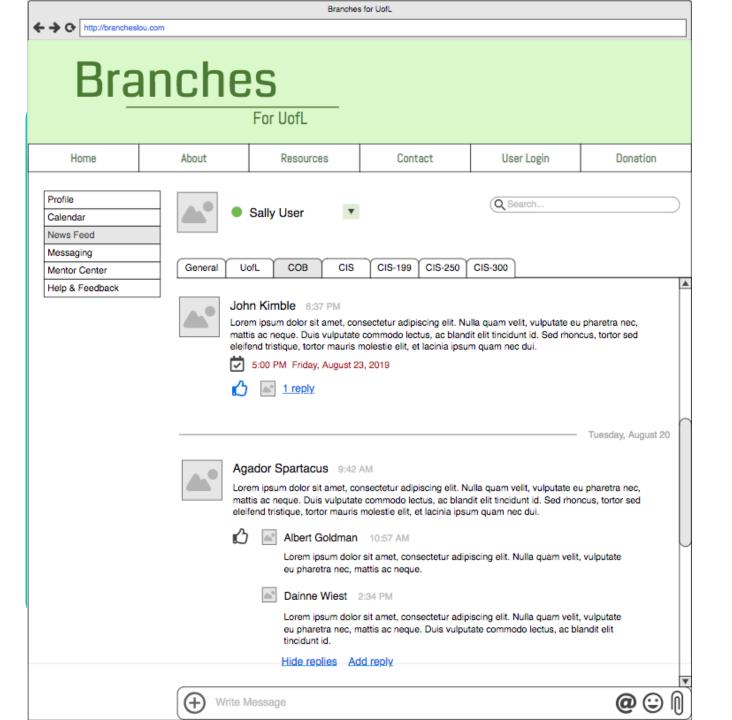


Edit Profile Prototypes



Mentor Match Prototype

News Feed Prototype





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Branches

For UofL

Home	About	Resources	Contact	User Login	Donation
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Profile
Calendar
News Feed
Messaging
Mentor Center
Help & Feedback

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27	28	29	30	31		

Link an external calendar



Meeting with Jordan Clements

2:30 PM Tuesday, October 15, 2019 Cancel appointment

Calendar Prototype

Appointment Prototype

Branches for UofL

← →

http://brancheslou.com

Branches

For UofL

Home	About	Resources	Contact	User Login	Donation

October 24, 2019									
Su	Мо	Tu	We	Th	Fr	Sa			
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13	14	15	16	17	18	19			
20	21	22	23	24	25	26			
27	28	29	30	31					

Book an Appointment with your Mentor

Which day would you like to book an appointment?

What time would you like make your appointment?

4:00 PM **Ⅲ**▼

Book Appointment

Your mentor is available on this day from:

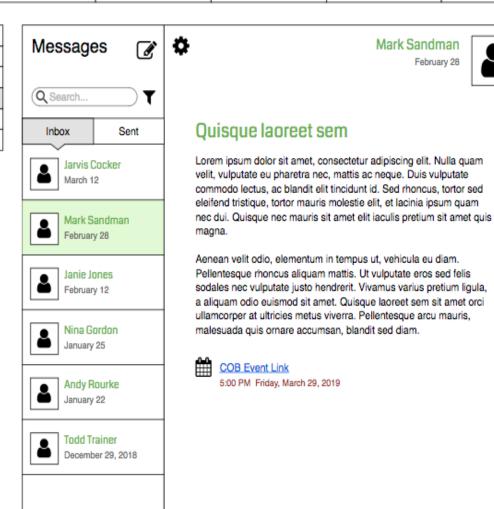
3:30 PM to 5:30 PM

Branches

For UofL

Home About Contact User Login Donation Resources

Profile
Calendar
News Feed
Messaging
Mentor Center
Help & Feedback



Messaging Prototype

Report Issue Prototype

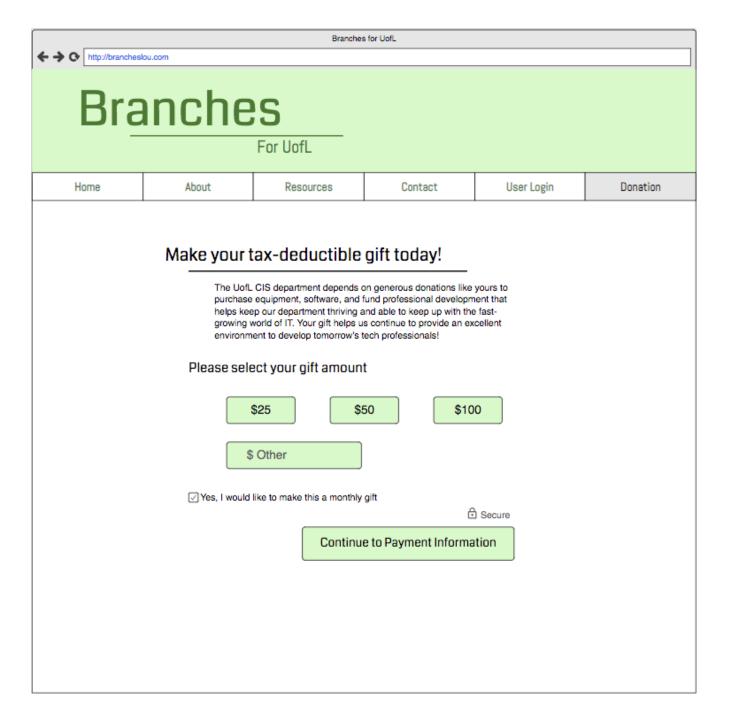
Branches for UoTL

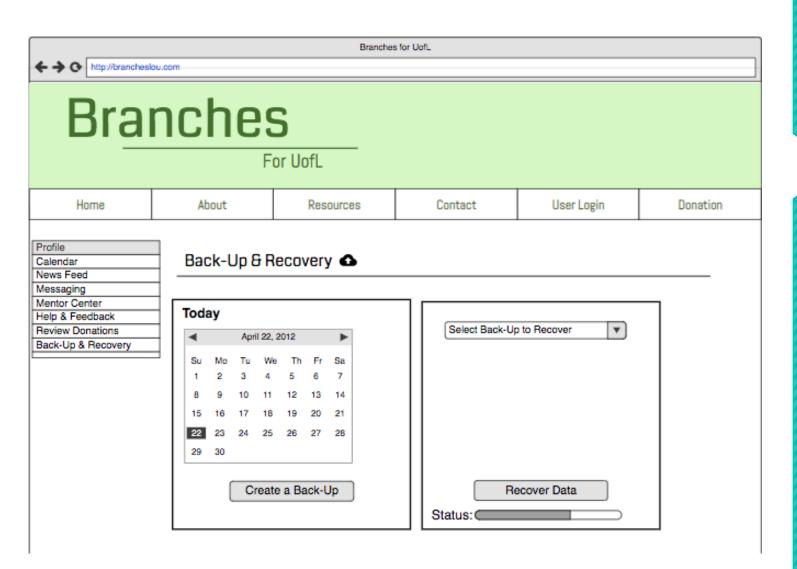
Branches

For UofL

Home		About	Resources		Contact	User Login				
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Donation Prototype





Backup Prototype: Admin View

Conclusion

Branches will...

- Foster community between CIS students, stem the 8% attrition rate
- Develop relationships between current students and alumni of the program
- Increase donations to the CIS program by improving the donation system

Questions?

Thank you for your time!