Group 2

Dr. Mejias

ITSC 3155

Fall 2021

Assignment 4-1

Design Sprint Day 1

Team

Murtadha Marzouq

Parker Randolph

Devon Cesca

Seven Volovar

Krish Padya

Abdullahi Ahmed

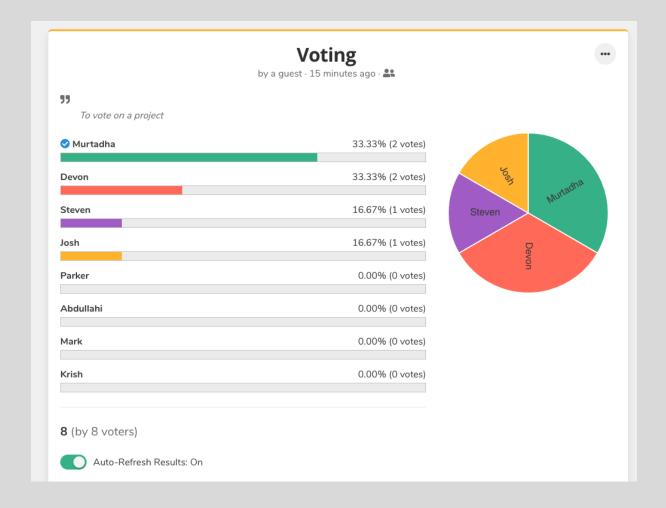
Mark Feng

Joshua Rizo

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Team Anonymous Voting to choose a project:



Murtadha Marzouq



Persona: David Blaine

David Blaine



Job Title IT Data Miner

> Age 34 years

Highest Level of Education Bacholors Degree in CS

Social Networks









Industry Advertising and IT

Organization Size 15

Preferred Method of Communication

- Phone
- Email
- Face-To-face

Tools They Need to Do Their Job

- Linux OS
- Python
- Pycharm
- Computer

Job Responsibilities

Minning websites to extract user data to serve better advertisements

Their Job Is Measured By

The data extracted and Ad targeting

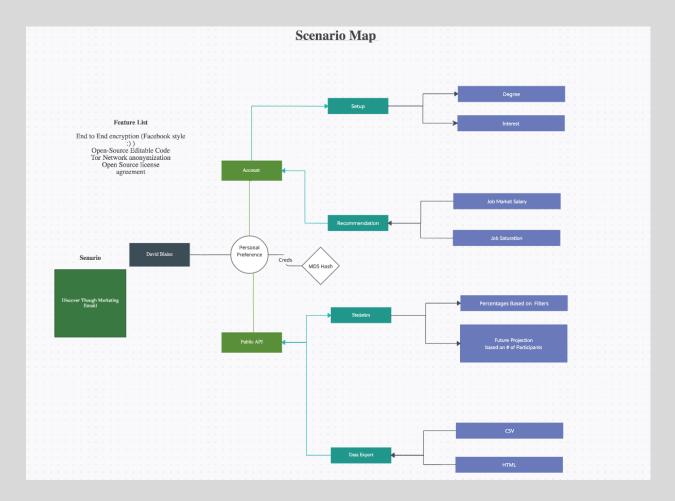
Reports to

Manager

Goals or Objectives

Grow his Company

Scenario Map:



David Blane, Male, 31, IT Data Minning Professional and is pursuing
 Graduate school in IT

As a Data Miner, I want to list all the contents on a website so I can extract data and model it using graphs. He is now tasked with mining data for information in his current job. He is attending UNCC to advance his education. He is currently looking for a job.

Scenario:

David is exploring careers in IT because it is a lucrative market. He is having problems finding jobs or other internships in her field. He also wants to find other students who are in the field as well that can help her get new opportunities. Networking with them would also be a big factor as well

User Stories:

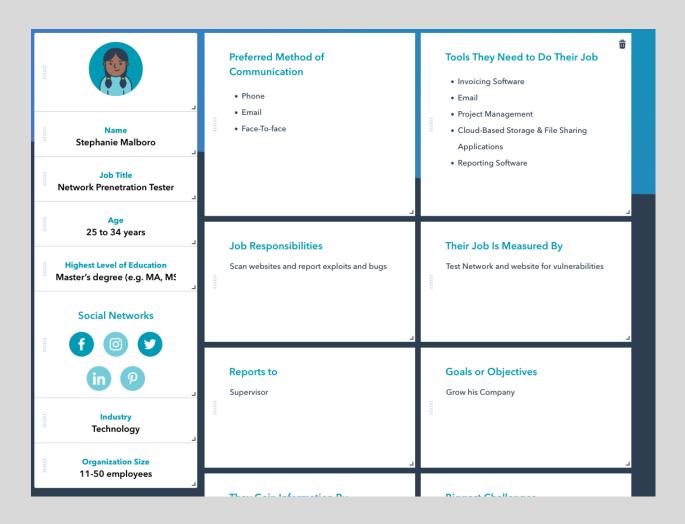
- As a Graduate Student, I want to schedule tasks for web crawling.
- As a Graduate Student, I want to save the output into a file.
- As a Graduate Student, I want to make the source of my traffic anonymous

Features List:

Feature	Description
End to End encryption	Proving security for users
Open-Source Editable Code	Open-ended customization
Tor Network anonymization	To anonymous the source sender
Open Source license agreement	To customize the Python code to customer needs

Persona:

Stephanie Malboro



Scenario Map:

• Stephanie Malboro, Female, 26, IT Penetration Tester and is pursuing a master's degree at UNCC.

 As an IT Penetration Tester, I want to scan the contents on a website so I can check for security vulnerabilities. I now work for an IT security company that specializes in website protection. She is attending UNCC to advance his education. He is currently looking for a job.

Scenario:

Stephanie is now tasked with scanning the company's website for
vulnerabilities and creating a report for the security team to address.
The website scan should be exported into a CSV file showing the
HTTP request information to help her in school. She is now
considering using our tool to help her in school.

User Stories:

- As a Graduate Student, I would like to scan websites for vulnerabilities.
- As a Graduate Student, I want to schedule tasks for web scanning.
- As a Graduate Student, I want to save the output into a CSV file.

Features List:

Feature	Description

End to End encryption	Proving security for users
Open-Source Editable Code	Open-ended customization
Tor Network anonymization	To anonymous the source sender
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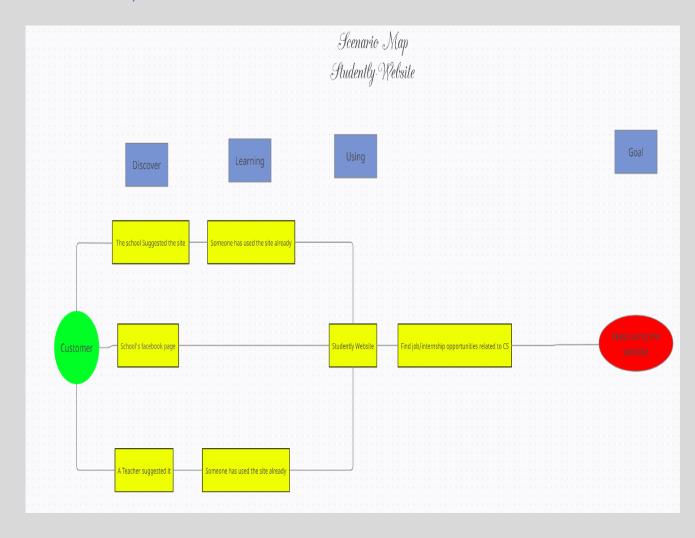
1. Discovery Questions

- A. As an incoming freshman, do you believe that enough information is being provided to you?
- B. What has been your greatest hurdle while in college?
- C. Has it been difficult finding information about classes regarding how they'll add to your current skill set.
- D. How many opportunities have you had to network with your peers in the last year?
- E. What is the most difficult thing about finding a job?

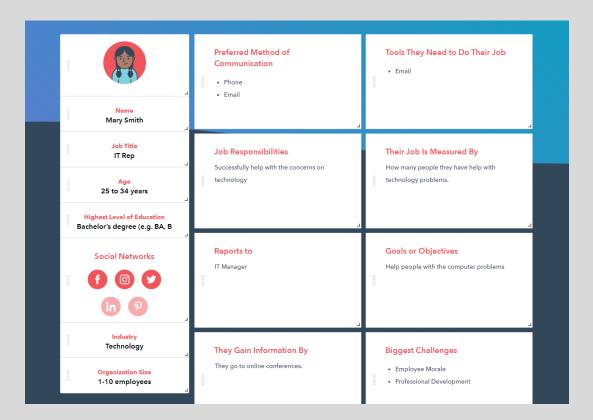
Parker Randolph



Scenario Map:



Persona:



Scenario:

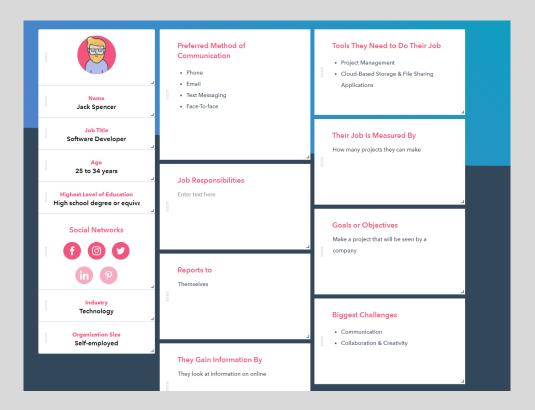
• While Mary has a year of programming experience and is an IT rep.

She is also a graduate student trying to get her master's. She is having problems finding jobs or other internships in her field. She also wants to find other students who are in the field as well that can help her get new opportunities. Networking with them would also be a big factor as well.

User Stories:

• As a graduate, I want to be able to navigate the website easily.

- As a graduate, I want to be able to find opportunities using keywords.
- As a graduate, I want to be able to connect with other users fast.



Scenario:

Jack Spencer is a Senior in college with Three years of Software
development experience. Even though he has a pretty good amount
of experience, He has trouble finding jobs and internships. He wants
to connect to others on a website that is specifically in his field. As
well as find employers he can connect with to show his previous
projects.

User Stories:

- As a Senior, I want to be able to navigate the website easily.
- As a Senior, I want to be able to find job offers.
- As a Senior, I want to be able to find others by field, specifically Software development.
- Link to Design Sprint:
 https://docs.google.com/document/d/1J7zJkgUCZmb7RoZwJaHQDM
 aoTYJ_ICjvb4pm5BeDHw4/edit?usp=sharing

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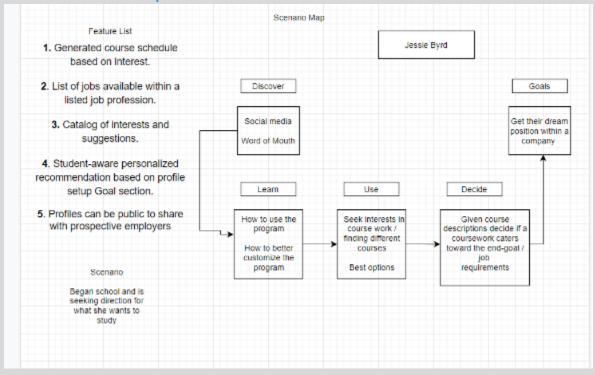
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End to End encryption	Proving security for users

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Devon Cesca



Scenario Map:

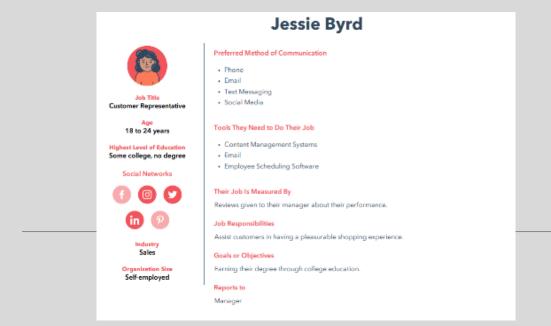


Persona:

Jessie Byrd

Scenario Map:

 Jessie Byrd is a first-generation college student, 18, not really knowing her interests yet. Seeking guidance to her schooling.



- Her goal is to work as a software engineer for a large company such as Google or Amazon.
- With this goal in mind, she knows what she needs to do to prepare for a position like this, but does not know where to start.

Scenario:

Jessie, being a brand-new student at the University of North
 Carolina at Charlotte does not have many opportunities or ones she knows about. She understands Degree-Works but feels that it lacks in functionality. She feels overwhelmed with the number of unsatisfied requirements and does not understand where to begin.

User Stories:

- As an undergraduate student, I feel overwhelmed by the number of options presented to me without a real understanding of how they will affect my future courses.
- As an undergraduate student, I wish that I had a better connection with the student body and understood how they felt about different courses.
- As an undergraduate student, I feel that there should be more opportunities for students to network as well as present themselves to employers.

Features List:

Feature	Description
Advanced Description	Expandable description for course work leading to a more understood outcome.
Different Paths	Open-ended customization based on chosen major
Step-by-step	Class suggestions based off of taken classes and asked question
Connections	Allow users to connect with students are in the similar career path and ask opinions or network.

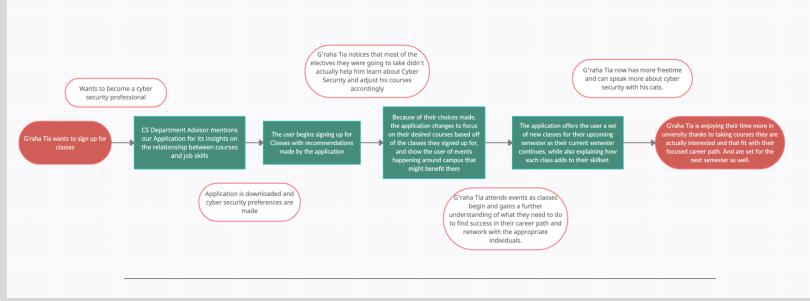
1. Discovery Questions

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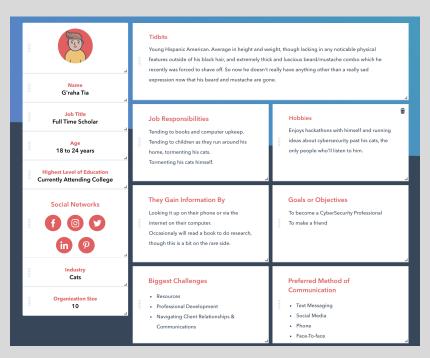
Joshua Rizo



Scenario Map:



Persona: G'raha Tia



- G'raha Tia is a 21 year old undergraduate student who enjoys cybersecurity aspects of his CS degree path.
- He frequents the university hackathons and enjoys learning new things about all things programming.
- He works on the side as a bookkeeper at a local library near the school, not to be mistaken with the school library. In the library's computers (with permission), he's installed a variety of beginner learning material for people who might want to learn the basics of programming.

Scenario 1:

- G'raha is wanting to apply to a couple of internship opportunities for the summer session, since he won't be attending classes. He's had trouble wording his skills outside of general knowledge on his resume that he's gained through his courses. He pulls up his courses using *Career Path*, a new application that was recently recommended to CS students in place of *DegreeWorks*. Using the application, he begins to note what skills he's learned, putting skill names to assignments, tests, and group work he experienced throughout his college career thus far.
- After a few days of going over his resume to make sure it was perfect, he then began to look for internship opportunities, but wasn't quite sure what would fit what he'd learned, and wasn't sure what keywords to look-up. Remembering the information held in *Career Path* he opened the application and began looking at his classes again, noting how they were tagged with specific career choices to note what type of career might utilize the skills he learned from a particular class. Using this information, he was able to determine that based on his classes, he would feel most comfortable looking for internships in Cyber Security, as well as in an Internship involving databases utilizing SQL.

With his resume done and his applications sent to prospective internships, G'raha waited for emails while maintaining his studies, and applying to even more opportunities.

Scenario 2:

- G'raha is looking forward to classes he might take in the future as he will be finishing the last of his general education courses at the end of his current semester. Because class signups are coming up, he wants to be prepared and have his classes ready in degreeworks to sign-up. He wants to prioritize cyber security based courses, but going through the entire list of courses, when the CS program was split up into so many different sections and categories, took an abhorrent amount of time, especially when requirements were often hidden behind a screen or two. Instead of agonizing any longer, he chooses to utilize the CS focused program *Career Path*, of which he'd heard mention of multiple features that might alleviate these stresses of his.
- Using the application, he is able to utilize it's tagging feature to find courses that fit his particular interest in cyber security. Noting that he required an intermediary course before they would nearly all become available to him, he made sure to grab that one as well as more theory based courses surrounding cyber security that were offered by different departments that he wouldn't have checked otherwise.

User Stories:

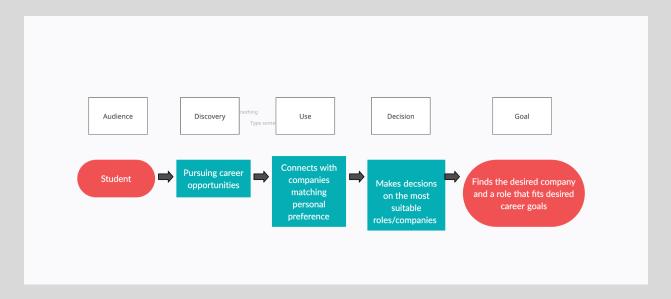
- As a student, G'raha wanted a way to find out what skills he'd learned through the classes he had taken in previous semesters. Namely, he wanted to be able to put these skills into words, other than merely labeling them as "general programming knowledge"
- As a junior in University, G'raha wanted to begin applying to internship opportunities for his upcoming summer session, and wanted to know what types of internships would best suit him
- As a student, G'raha needed information on how well he'd done in classes and how that might correlate to weaker aspects of his skillset that he would need to brush up on.
- As a junior, G'raha wants to really focus on taking courses related to cyber security rather than courses that aren't required that don't interest him.

Feature List:

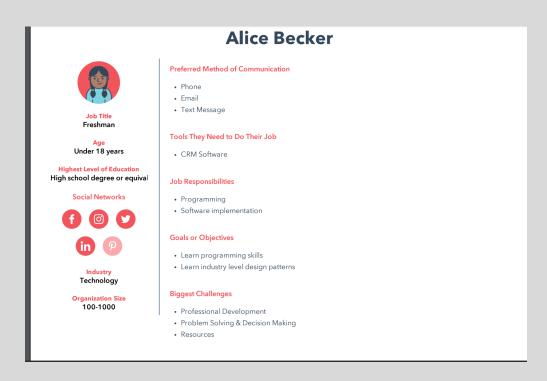
- Tagging of courses to particular fields of interest and careers
- Recommendation of courses based on user's previous class choice
- Skill association with classes taken
- Recommendation of courses that would benefit the skillset of the user based on their acquired skills with what might be required in their desired career

Abdullahi Ahmed

Scenario Map:



Persona:



Alice Becker is a freshman who just graduated from high school in Wyoming. She recently began her second semester since starting at UNCC. She hopes to become a software engineer and is majoring in computer science. Alice would like to land an internship the summer of her junior year.

Scenario:

Alice Using iCareer Software to find a nearby Hackathon event:

19-year-old Alice Becker is a freshman in her second semester at UNCC. She has decided that she would like to set up a profile she can develop over her years at UNCC to be able to smoothly launch a career in software engineering. She requires a free platform that can allow her to create a profile, track her progress in school, enable her to keep up with campus activities of her interest and finally share it with potential employers.

Alice sets up her profile adding her basic information including her picture. She also adds her coursework therein and tracks her progress. She then proceeds to use iCareer to monitor any events and finds a hackathon at a nearby Software company. She signs up and participates in the hackathon.

User Stories:

Alice Becker:

- As a freshman, I need to be able to track my grades
- As a freshman, I need to be able to know events of interest around
 me
- As a freshman, I need to be aware of career opportunities around me

Persona:



Dejan is from Serbia originally and recently immigrated to the states. He acquired an associates degree in science and hopes to complete his bachelors in computer science. Being an adult student, his goal is to get a job as a data scientist while he completes his bachelors. He is passionate about data analytics.

Scenario:

Dejan Stankovic using the iCareer Software to land a Data Scientist role at Josh Software Inc:

Dejan, 32, is an adult student who is mainly focused on landing a job as soon as he can as a data scientist. He is passionate about data science and would like to contribute solutions to problems in his native Serbia on top of getting a full-time role.

Dejan created his profile and set it up. He is leveraging the system to generate potentially fitting roles as he is also a student trying to complete his bachelor's in Computer science. He is then redirected to application portals which he fills out. He got connected to recruiters from a few companies after a week and chose to continue with Josh Software Inc. He was offered a data scientist role at the company's Charlotte location.

User Stories:

Dejan Stankovic:

- As an adult student, I would like to connect with other adult students
- As an adult student, I would like to connect with employers
- As an adult student, I would like to land a full-time role as a data scientist

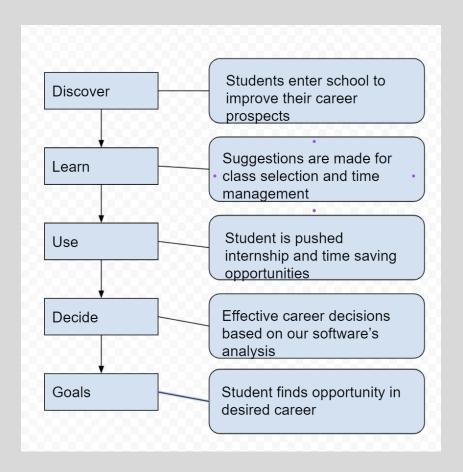
Features:

- Profile creation
- Events notification (based on topics of interest)
- Generate jobs based on interest and course completion
- Degree completion/Grades tracker
- Share profile with employers
- Student connection based on interest

Steven Volovar



Scenario Map:



Persona:

Ronald Newman



Job Title Sr. Forklift Operator

> Age 25 to 34 years

Highest Level of Education Some college, no degree

Social Networks











Industry Manufacturing

Organization Size 10,001+ employees

Preferred Method of Communication

- · Phone
- Email
- Text Messaging
- Social Media
- · Face-To-face

Tools They Need to Do Their Job

- Forklife
- · Inventory Management Software

Their Job Is Measured By

Productivity

Job Responsibilities

Physical displacement of inventory utilizing industrial equipment to designated areas

Goals or Objectives

Safe and efficient use of forklift

Reports to

Department Manager

Biggest Challenges

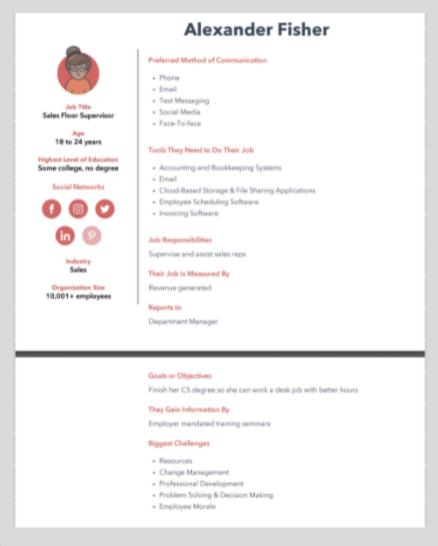
- · Employee Morale
- Communication
- Change Management
- Professional Development

Scenario:

Ronald Newman attends school at night while working as a forklift
operator during the day. He is having problems with finding
internships and relative career opportunities. It's hard for him to
even decide where he wants to focus in tech. He knows that he needs
to find networking and internship opportunities to achieve his goals.

User Story:

- As an adult student, I want to leverage my experience in a relevant field.
- As a part time student, I want to make sure I have all the advantages
 of a full time student.
- As an adult student, I want to transition to my new career as soon as possible



Scenario:

Alexander Fisher is a new student at UNCC. She has one semester
under her belt, but she still feels she lacks direction. She learns bits
and pieces of seemingly useful material in her CS classes, but she
doesn't know how to tie the skills together in a resume that would

make her a competitive candidate. She wants to get her curriculum on the right path so she can get a career she is passionate about.

User Stories:

- As a college student, I would like to make sure I am not wasting my time in useless classes.
- As a college student, I would like to make sure that I give myself every opportunity to get an internship.
- As a college student, I would like to know how the classes that I am taking translate into the real world.

Customer discovery interview questions

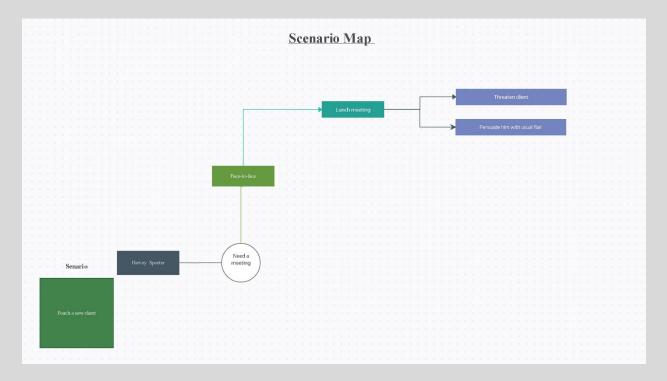
- 1) What is the hardest part about earning a college degree and getting a job?
- 2) What is your experience trying to manage your time and get a job so far?
- 3) Why has this been difficult?
- 4) What have you done to improve your time management, class selection, and aggregation of internship and job listings?
- 5) When you think about how to approach these challenges, what tools that you've tried do you find to be inadequate for the task and why?

Feature List

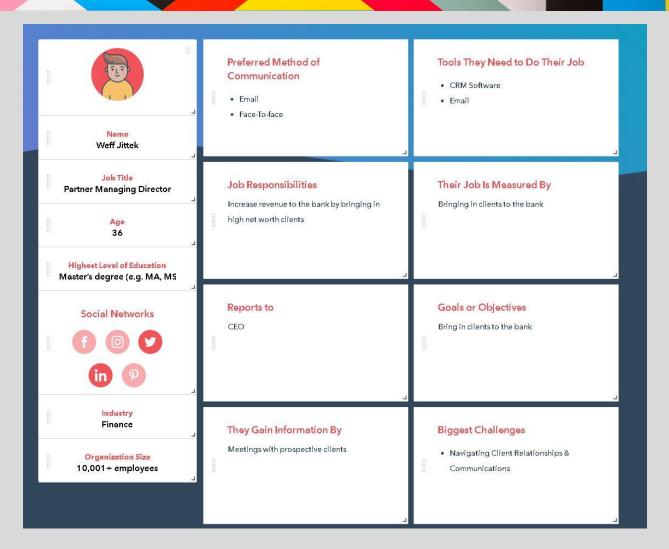
- Outline of core curriculum
- Elective suggestions based on interest
- Notifications of relevant internships
- Pie chart for time management
- Suggestion of extra-curricular material based on courses
- Suggested schedules based on desired graduation date

Krish Pandya

Scenario Map:



Persona:



Weff Jittek is a hotshot investment banker with no need for computer science. However, he wants to increase his network and since his friends are all bankers and lawyers, he figured he might as well just get a CS degree on the side.

Scenario:

Weff as investment banker is always looking to expand his network and gain new clients so he figured he might as well get a CS degree on

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the side to expand his knowledge. He needs to get a CS degree is the scenario

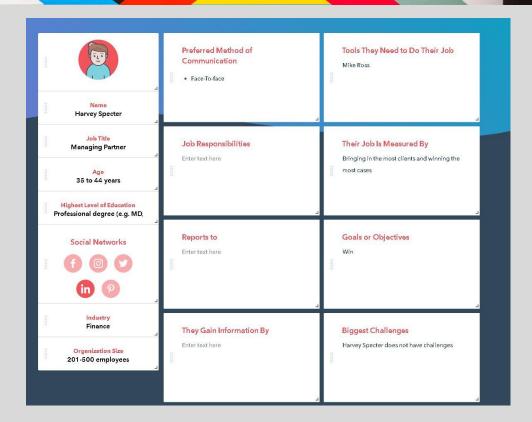
User Stories:

- Needs to get a CS degree quickly but at the same time won't over work himself
- Wants to network with CS people

Features:

- Efficient UI allowing for quick and easy use with not much learning curve
- An all in one platform allowing learning, connecting, and networking in the same place

Persona:



Harvey Specter is a lawyer however his son is about to graduate college with a CS degree, Harvey is disappointed his son did not follow his footsteps but nonetheless as a good father wants what's best for his son and wants him to get a high paying job.

Scenario:

Harvey's son is graduating college with a CS degree and Harvey wants him to get a high paying job.

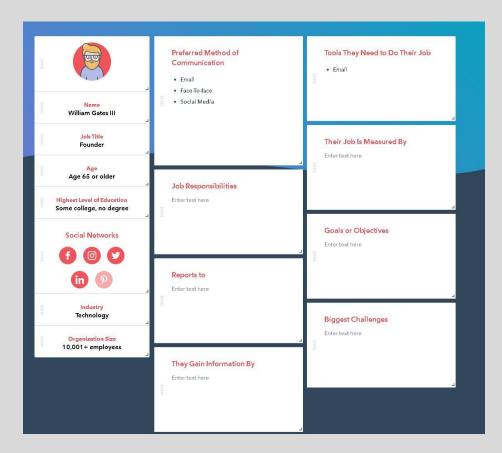
User Stories:

 Harvey does not have much background in the CS field and is honestly struggling to gather information on it because he has not much free time to review a bunch of job opportunities

Features:

 All in one platform that gives all the information and choices in one place to save time

Persona:



William Gates III dropped out of college and was a successful entrepreneur but is tired of people joking he has no college degree, even though as a tech entrepreneur he probably has more knowledge than anyone with a degree, he's tired of getting shade thrown at him. He's going back for a CS degree.

Scenario:

William Gates III is going back to college because he's tired of people telling him he has no degree

User Stories:

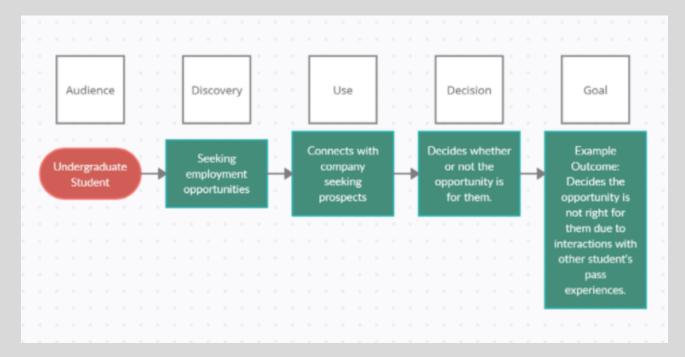
 As an old man, he is overwhelmed by all the modern technology even though he did run his own technology company. He needs something simple

Features:

• A very simplistic UI with large, easy-to-read text and navigation, with no distractions

Mark Feng

Scenario Map:



Shinya Aoki

- 38, Mixed Martial Artist and Professional Wrestler
- Someone who did not previously have a background in technology/IT
- He is currently attending UNCC to receive the necessary education for a future career change to IT

Shinya Aoki



Job Title Professional Wrestler

> Age 35 to 44 years

Highest Level of Education High school degree or equival

Social Networks











Industry Advertising

Organization Size 5001-10,000 employees

Preferred Method of Communication

- Phone
- Email
- · Face-To-face

Tools They Need to Do Their Job

Email

Their Job Is Measured By

Views/Advertisement Revenue

Job Responsibilities

Expose a product to as much attention as possible.

Goals or Objectives

Career change towards IT

Reports to

Career Manager

Biggest Challenges

- · Navigating Client Relationships & Communications
- Communication
- · Professional Development
- · Change Management

They Gain Information By

Attending school for their career change.

Scenario:

Shinya is currently seeking to change his career to be more IT focused as he believes that it is a burgeoning market that could significantly improve his current standard of life. He hopes that he will be able to network with other students and employment opportunities to achieve this goal.

User Stories:

- Feels overwhelmed by the large amount of information required with changing his career
- Due to not having any professional experience, he is confused with the system of interviews and employment and could improved utilize ease of communication
- Wishes to network with other similar people to learn more about this career and the people within it

Features List:

Feature	Description
Ease of Use	Intuitive layout should help users quickly achieve their networking goals.
Employment Networking	Users should easily be able to communicate and reach out

	to employment opportunities
Connections	Users should be able to connect with other available students and faculty
Events	Allow users to host and RSVP into public/private events

1. Discovery Questions

- A. As an incoming freshman, do you believe that enough information is being provided to you?
- B. What has been your greatest hurdle while in college?
- C. Has it been difficult finding information about classes regarding how they'll add to your current skill set.
- D. How many opportunities have you had to network with your peers in the last year?
- E. What is the most difficult thing about finding a job?

Master Features LisTt:

Feature	Description
Tagging	Courses will be tagged to particular fields of interest and careers
Connections	Allow users to connect with students who are in the similar career path and ask opinions or network.
Events	Allow users to host and RSVP into career fair events with filters
Advanced Description	Expandable description for course work leading to a more understood outcome.
Recommendations	Future courses will be recommended based on previous courses and skills acquired from class history