

Team CareerNet



CARTER TAYLOR

Role: Team Lead, Customer Communicator

MCKENZIE CLARK

Role: Architect

RAN LI

Role : Release Manager

CARMEN MONTALVO

Role: Recorder

CS Faculty Mentor:

Han Peng

Design Review 3

Clients



**José R. Díaz
Aquino**

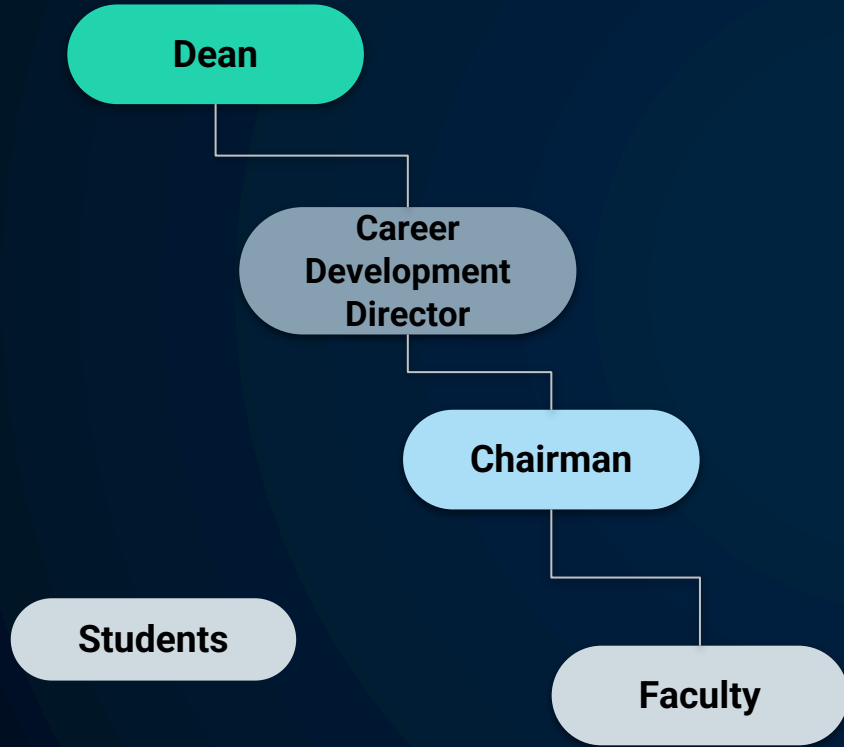


Dr. Andy Wang

Mr. José R. Díaz Aquino, Program
Director, CEIAS Career Development

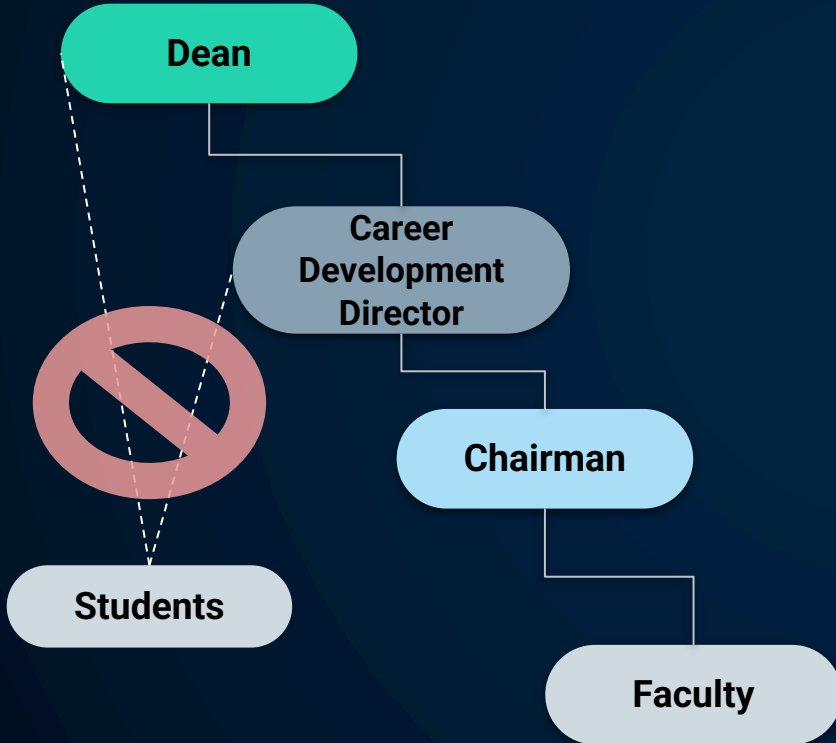
Dr. Andy Wang, Dean and Professor
College of Engineering, Informatics,
and Applied Sciences

Workflow



- Dean - head of a school or administration division in a university
- Career Development Director - Directs and manages the university's career services
- Chairman of the Board - aids in defining the board's responsibilities and setting the strategic direction for the institution
- Faculty - professors and advisors
- **Goal:** By 2026, all students should have external learning experiences (work in something related to their major outside of the classroom).

Problem



- Disconnect between the students and the clients
- Timing of data collection
- Lack of information on students career success outside of the classroom
- No data visualization

Solution

Web Application



DATA RETRIEVAL

Data retrieval, normalization, and storing



SECURE LOGIN

A secure login verification with user groups



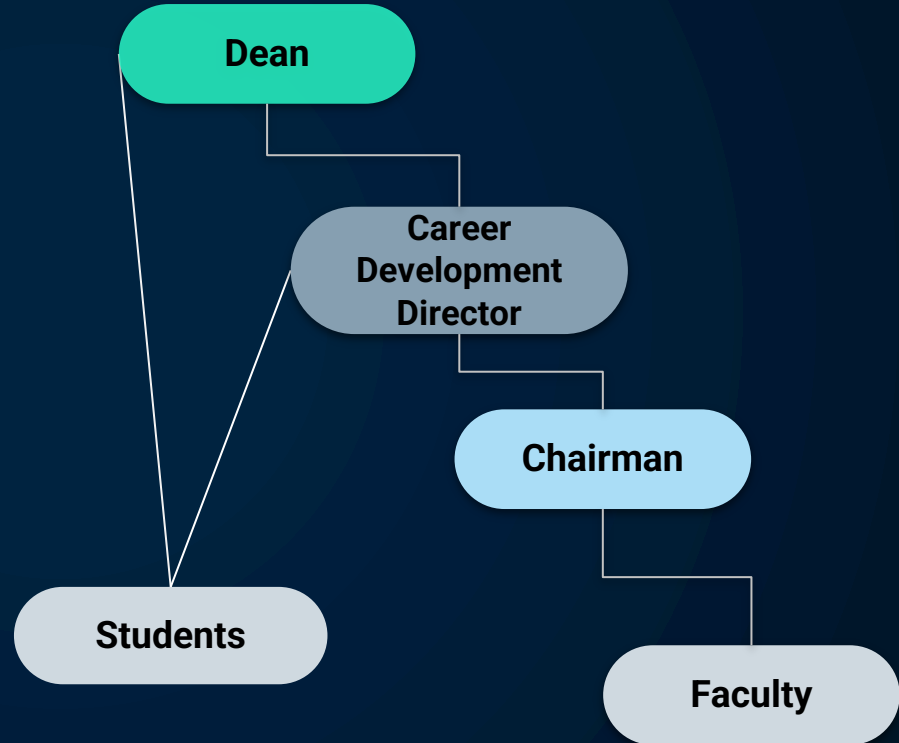
DATA VISUALIZATION

Easily filtered data graphs for users to examine



ACCESSIBILITY

Easy user interface to find information at glance



Key User Requirements Reminder

User Authentication

Only provide access for authorized users

01



02

Efficient Student Data Fetcher

Efficiently grab and store fetch Student data from Linkedin, and imported CSVs

Searchable Student Profiles

Unique profiles for each stored student that shows notable professional milestones

03

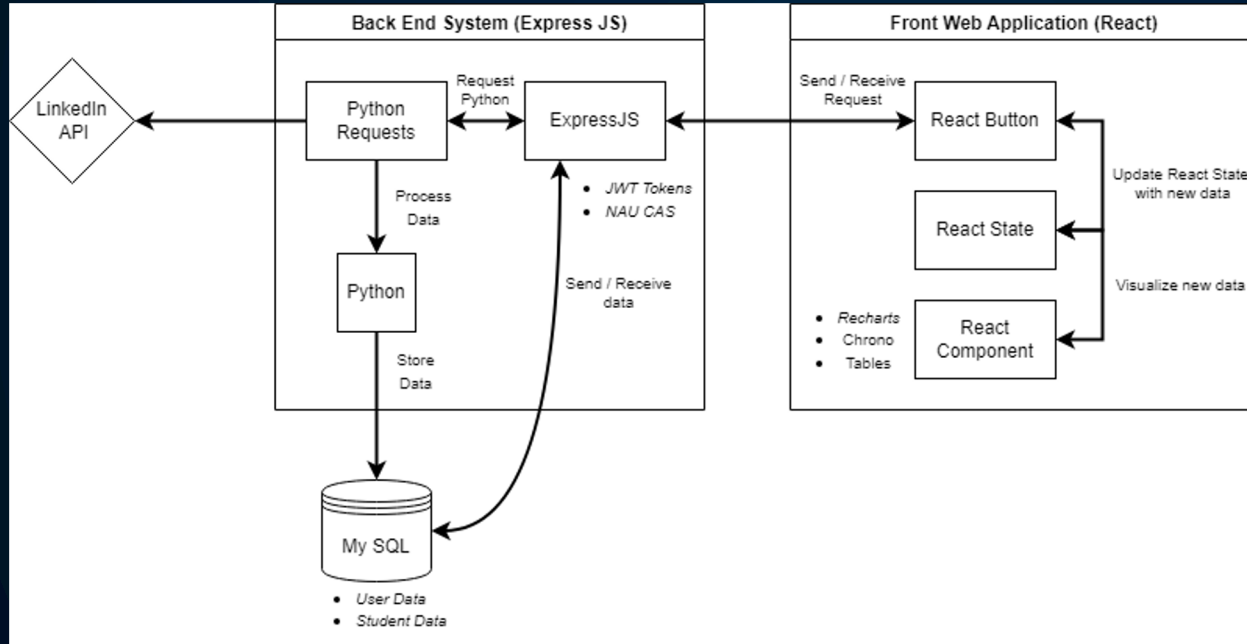


04

Data Visualization

Visualize and filter stored student data for analysis

Architecture



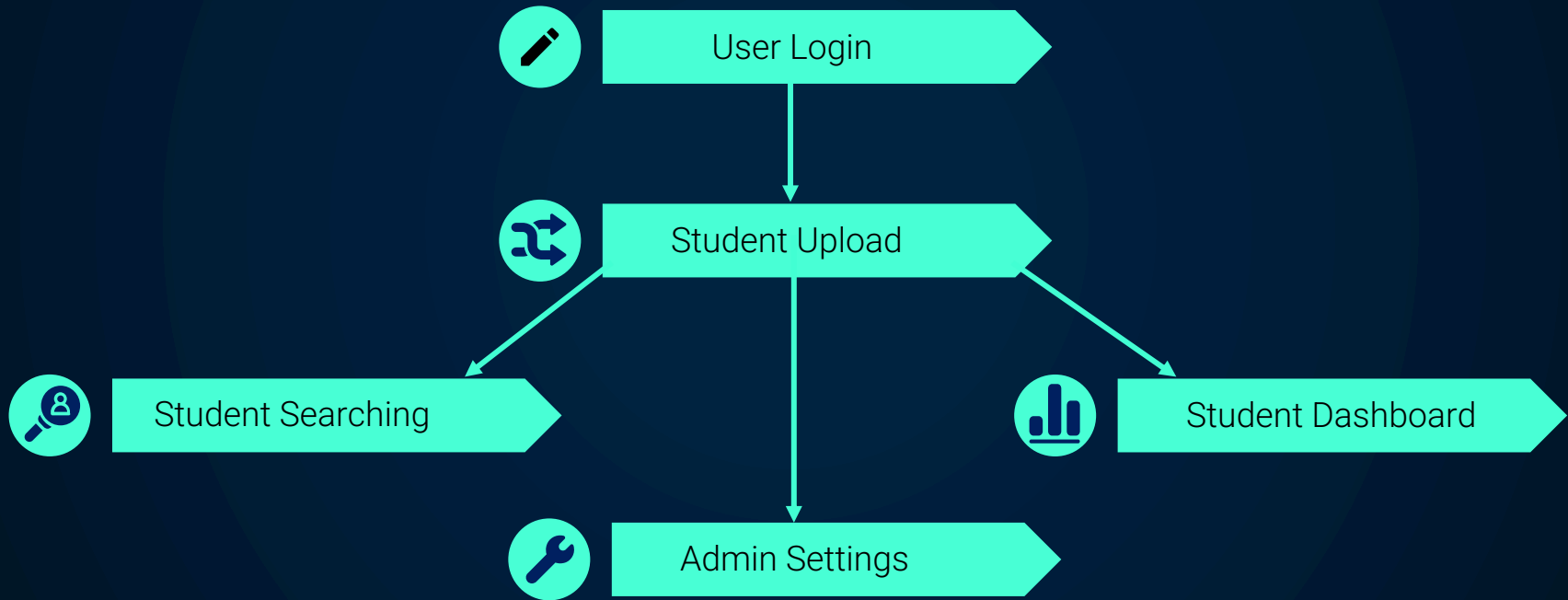
Front Web Application

- Data Visualization
- Accessibility

Back End System

- Data Retrieval
- Secure Login

Prototype Review



User Login

Career Net

Login

NAU ID

Please provide your NAU email

Password

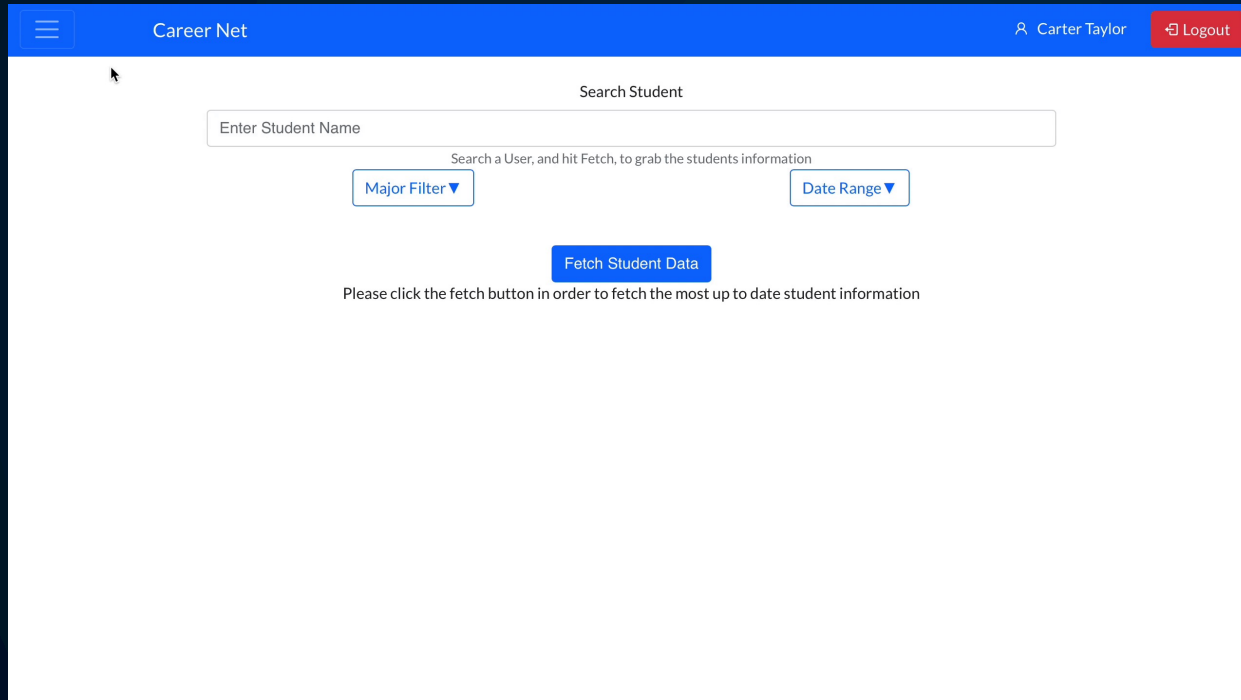
☐ Remember me

Log in

User Login

- Login using provided user credentials
- Passwords are hashed

Student Upload



The screenshot shows a web application titled "Career Net". In the top right corner, the user "Carter Taylor" is logged in, with a "Logout" button next to it. The main area is titled "Search Student" and contains a search bar with the placeholder text "Enter Student Name". Below the search bar is a small instruction: "Search a User, and hit Fetch, to grab the students information". There are two filter buttons: "Major Filter" and "Date Range", both with dropdown arrows. A blue "Fetch Student Data" button is centered below the filters. At the bottom, a message reads: "Please click the fetch button in order to fetch the most up to date student information".

Student Dashboard

- Upload new student info through CSV
- Add new student milestones through CSV
- Pull LinkedIn milestone from uploaded students

Student Searching

The screenshot shows a web application titled "Career Net". In the top right corner, the user "Carter Taylor" is logged in, with a "Logout" button next to it. The main section is titled "Search Student" and contains a large text input field with the placeholder "Enter Student Name". Below the input field is a small instruction: "Search a User, and hit Fetch, to grab the students information". To the left of the input field is a "Major Filter" dropdown menu, and to the right is a "Date Range" dropdown menu. Below these filters is a blue "Fetch Student Data" button. At the bottom of the search section, a message reads: "Please click the fetch button in order to fetch the most up to date student information".

Student Milestones

- Search by student name
- Filter by major
- View student timeline

Student Dashboard

The screenshot shows a web application titled "Career Net". The header is blue with a menu icon on the left, the text "Career Net" in the center, and a user profile "Carter Taylor" with a "Logout" button on the right. The main content area has a light gray background. At the top, it says "Search Student". Below this is a text input field labeled "Enter Student Name". Under the input field, there is a small instruction: "Search a User, and hit Fetch, to grab the students information". To the left of this instruction is a "Major Filter" dropdown button, and to the right is a "Date Range" dropdown button. Below these filters is a blue "Fetch Student Data" button. At the bottom of the main content area, there is a message: "Please click the fetch button in order to fetch the most up to date student information".

Student Dashboard

- Choose different graph types
- Create graphs based on student major
- Filter data by different milestones (internship, full time job, etc...)

Admin Settings

The screenshot shows the 'Admin Settings' page of the 'Career Net' application. The header is blue with a menu icon, the text 'Career Net', the user 'Carter Taylor', and a 'Logout' button. The main content area is white and contains a 'Search Student' section. This section has a text input field labeled 'Enter Student Name', a small instructional text 'Search a User, and hit Fetch, to grab the students information', a 'Major Filter' dropdown, a 'Date Range' dropdown, and a blue 'Fetch Student Data' button. Below the button is a note: 'Please click the fetch button in order to fetch the most up to date student information'.

Career Net

Carter Taylor Logout

Search Student

Enter Student Name

Search a User, and hit Fetch, to grab the students information

Major Filter ▼

Date Range ▼

Fetch Student Data

Please click the fetch button in order to fetch the most up to date student information

Admin Settings

- Add new users (faculty or admin)
- Edit existing user permissions

Challenges



**User
Authentication**



**Data
Visualization**

Solutions



Data Access

- User Interface
- Data Retrieval
- User Authentication
- Data Storage



Performance Requirements

- Responsive User Interface
- Quick Database Retrieval
- Efficient Data Scraping



Back End Organization

- Host Server
- Desktop Usability
- Data Visualization

Unit Testing

Individual functionality of:

- Front-End
- Back-End
- Database

Integration Testing

Combination of results for:

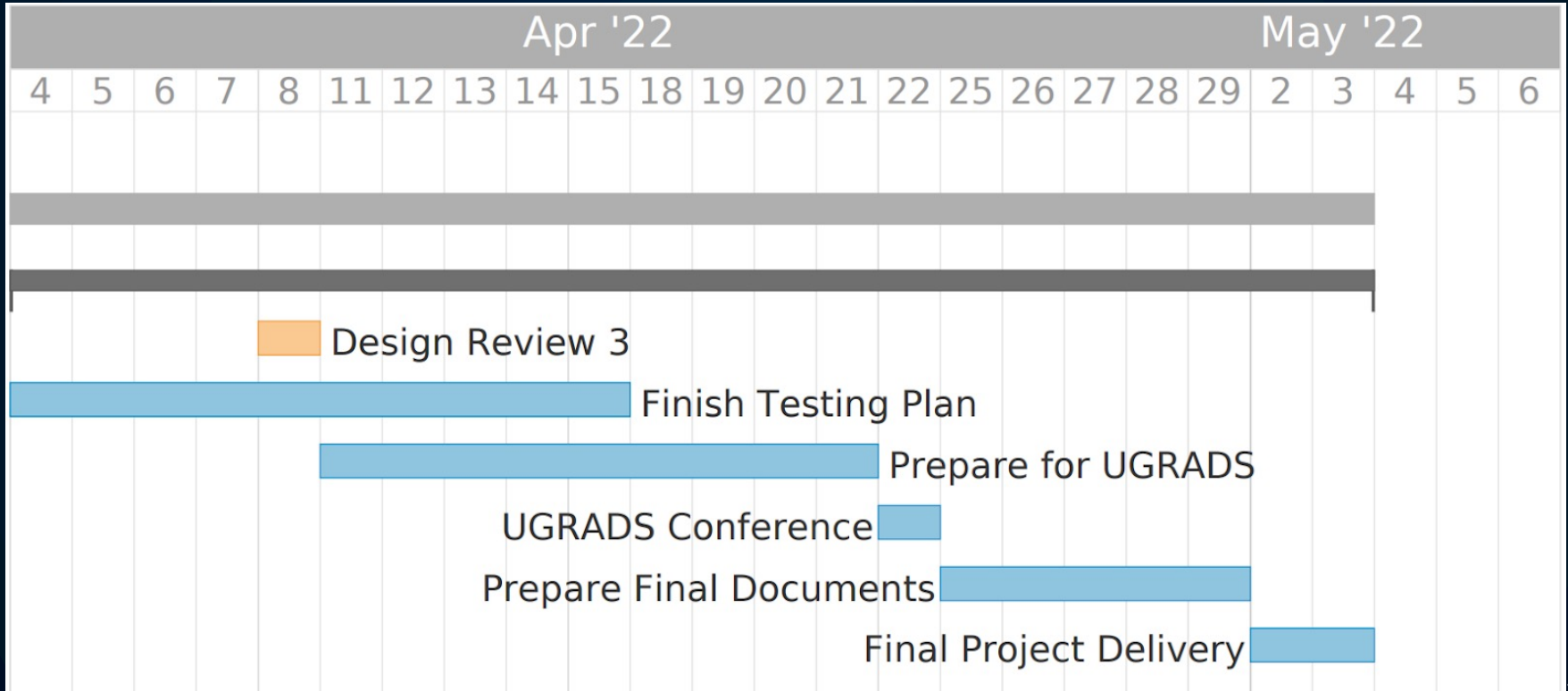
- Front-End
- Database

Usability Testing






User interaction of:

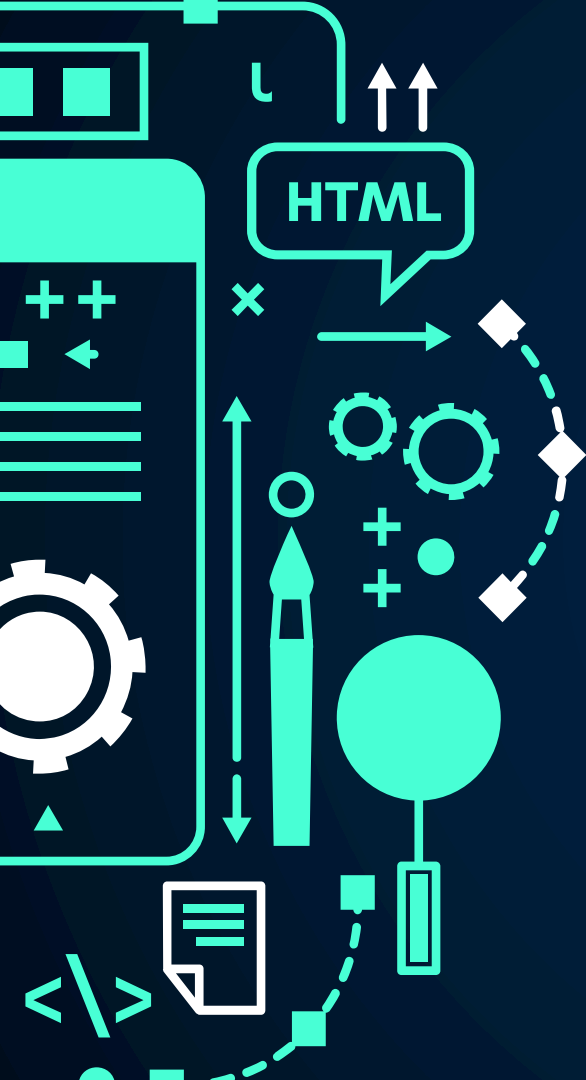
- Web Page Design
- Element Quality
- Page Modularity

Schedule



Conclusion

- | | | | |
|-----------------------|-----------|---|--|
| Clients | 01 |  | Dr. Andy Wang and Mr. José R. Díaz Aquino |
| Problem | 02 |  | Disconnect between student's information and our clients |
| Solution | 03 |  | Web application that retrieves and organizes student information to be displayed to the client |
| Key Features | 04 |  | Data Retrieval Secure Login Data Visualization Accessibility |
| Product Impact | 05 |  | Implement actionable plans based on tracked student success |



THANKS!