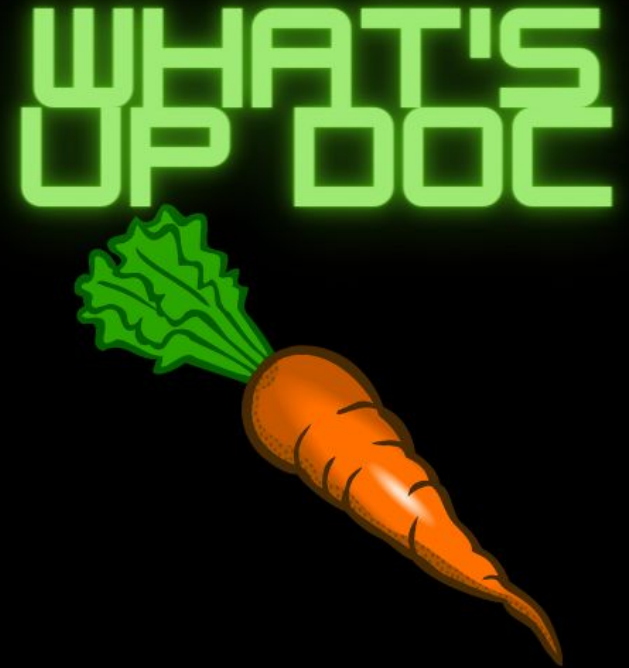


C&I Doctoral Tracker

Team What's Up Doc



Meet the Team:

- Adam Larson (Team Lead)
- Brandon Shaffer
- Eddie Lipan
 - Special thanks to mentors Tom, Ani, and CS Faculty Member Dr. Michael Leverington



Meet the Client:

- Dr. Gretchen McAllister, Ph.D.,
Coordinator of the NAU Curriculum
and Instruction (C&I) doctoral
program
 - Aided by Michele Benedict,
Administrative Services Assistant



Problem Statement:

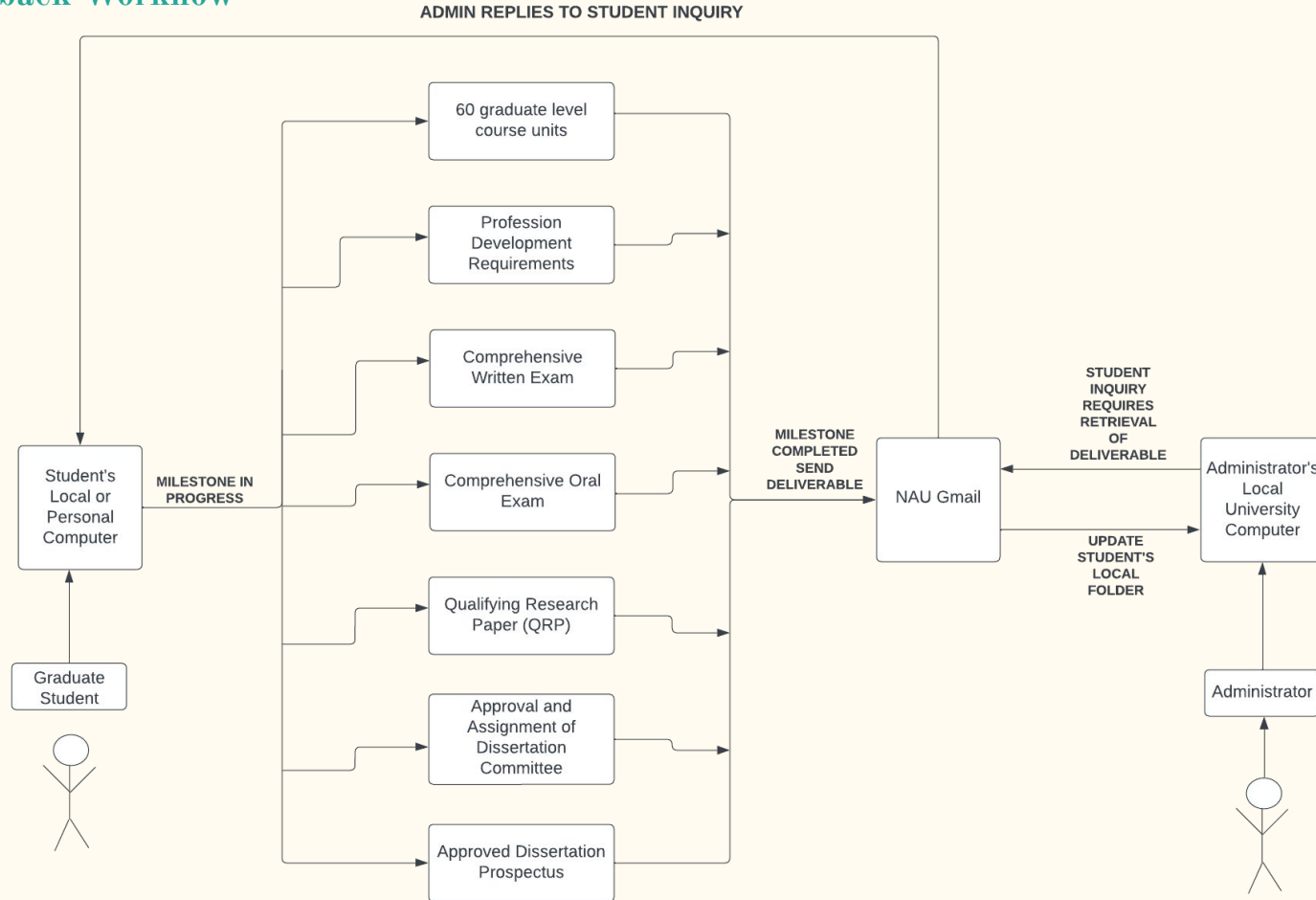
3.1 million graduate students attended universities across the United States.

- **Learning Management System (LMS)** such as Blackboard Learn or Canvas are generally used to manage undergraduate classwork and grades.
- However, as graduate work becomes more rigorous and less quantifiable, managing the program through a standard LMS is not feasible.
- NAU C&I doctoral program's current feedback process is inefficient! Workflow highlighted on next slide.

Blackboard⁺
learnTM

LAST ACTIVITY	GRADE
Jan 21, 2022 2:48 PM GRADED	765862
Feb 2, 2022 9:30 PM GRADED	13.00 /16
Feb 9, 2022 11:27 AM GRADED	12.00 /19
Feb 11, 2022 11:48 AM GRADED	20.00 /23
Jan 19, 2022 4:29 PM GRADED	20.00 /20
Feb 11, 2022 3:22 PM GRADED	 117.00 /125

Current Feedback Workflow



Solution Overview:

- A College of Education (COE) **website application** that manages and tracks graduate student milestones up until candidacy.
 - **Problem:** Data entry is time consuming
 - **Solution:** Place data entry into the students' hands by automating document upload
 - **Problem:** Difficult process for students to view milestone progress
 - **Solution:** Make the website application easily accessible with an intuitive interface
 - **Problem:** Insufficient reporting
 - **Solution:** Provide admins with easy ways to sort and view the progress of individual students, individual milestones, or the entire program

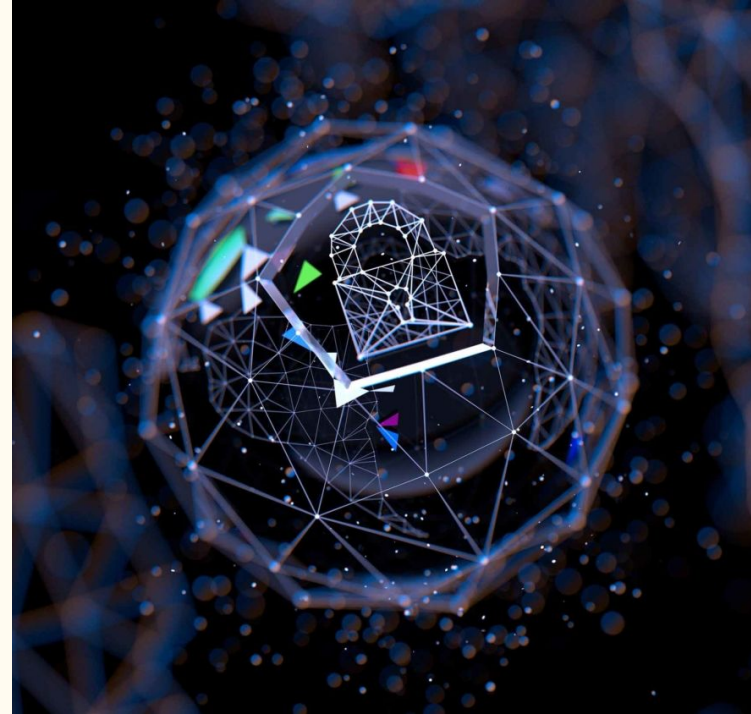
Key Requirements

- Research
 - Client/Admin
 - Interview current students
- Accessibility
 - Cultural
 - Disability
 - Familiarity
- Requirements
 - Functional
 - Performance
 - Environmental Constraints



Key Requirements

- Functional
 - Display interface
 - File upload and download
 - NAU login
- Performance
 - Data protection
 - Stability
 - Response time
- Environmental Constraints
 - NAU login - Google
 - Internet Connection
- Adjust to meet requirements with progression



Key Requirements

- File upload and download
 - Upload
 - Framework receives file
 - Creates student folder if not present
 - Saves file to student folder
 - Download
 - Framework returns requested document(s)
 - User selected location



Feasibility

- **Database**
 - MySQL
- **Service**
 - Spring
- **User Authentication**
 - Google Authentication Services
- **User Interface**
 - JavaScript & HTML



Risks

- **Database Losing Files**
 - Database Backups
- **NAU Creating a Competing Application**
 - Transfer Friendly
- **Unauthorized User Access**
 - Personal Responsibility
 - Google Security
 - NAU Two-Factor Authentication

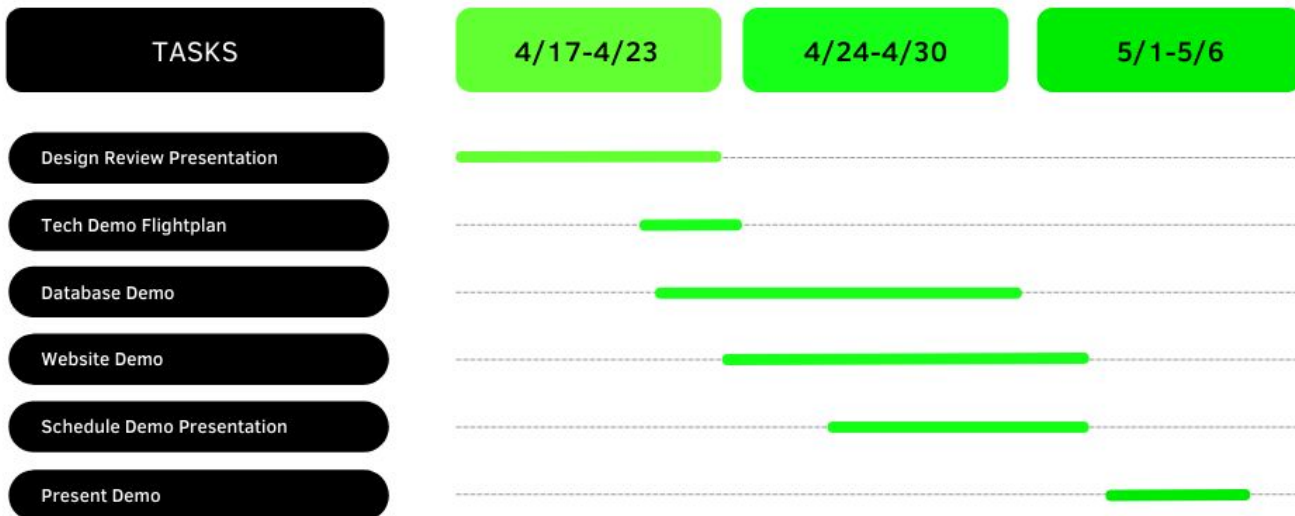


Blackboard





Gantt Chart



Closing and Logistics:

Team What's Up Doc is diligently working to solve the inefficiencies present within the C&I doctoral program feedback process. Through an intuitive COE website application, we aim to:

- Relieve Michele of her data entry and acquisition duties
- Facilitate an easy, motivating, and informative way to manage/track milestones
- Adhere to COE Authentication and Security measures
- Provide more detailed reporting

