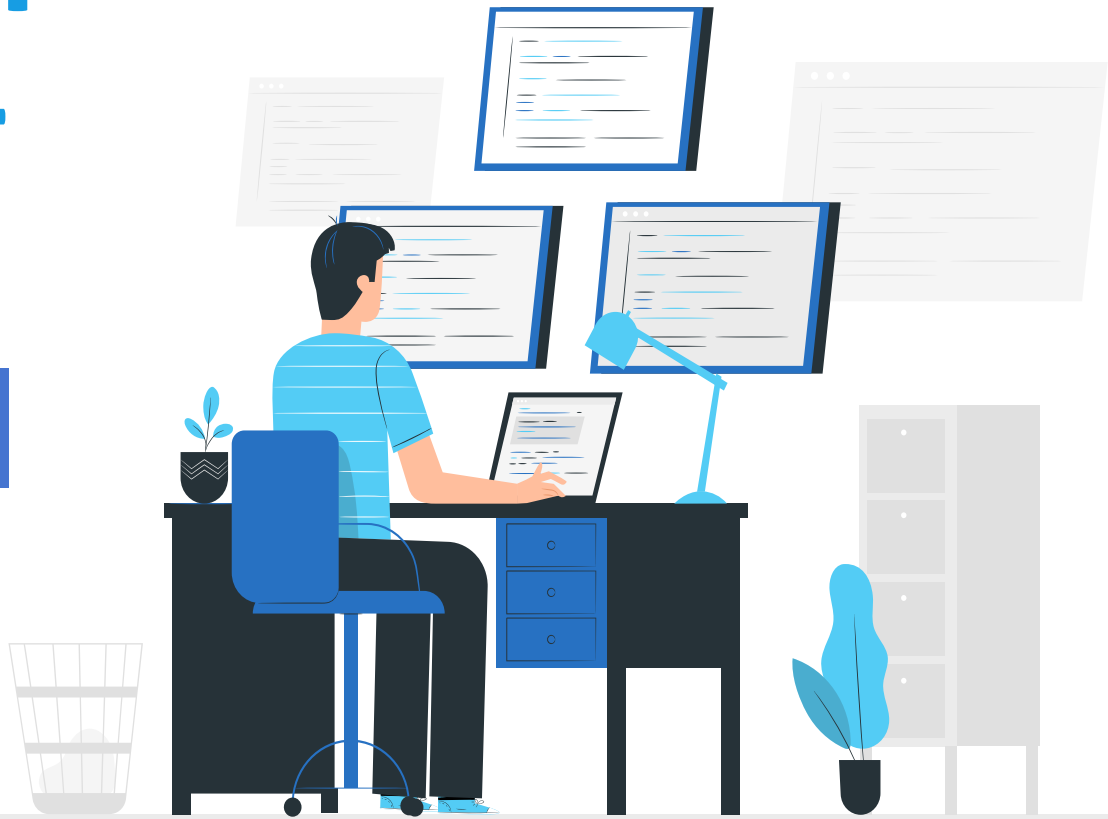
Senior Design Final Report

Group 6:

AdviseMe



Developers: Chrystal Mingo, Rehman Arshad, Xunshan Lin, Zhicong Wen

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Accomplishments

OUR TEAM

Chrystal Mingo

Computer Science
Senior
Frontend Developer

Rehman Arshad

Computer Science
Senior
Backend Developer

Xunshan Lin

Computer Engineering
Senior
Backend Developer

Zhicong Wen

Computer Science
Senior
FrontEnd Developer

Overview of Problem

- Low Graduation rate at CUNY

16.2%	46.9%	55.3%
GRADUATE IN 4 YEARS	GRADUATE IN 5 YEARS	GRADUATE IN 6 YEARS

- Pandemic Advising, emails workflow

Due to the covid-19 pandemic many students are forced to do advising online.

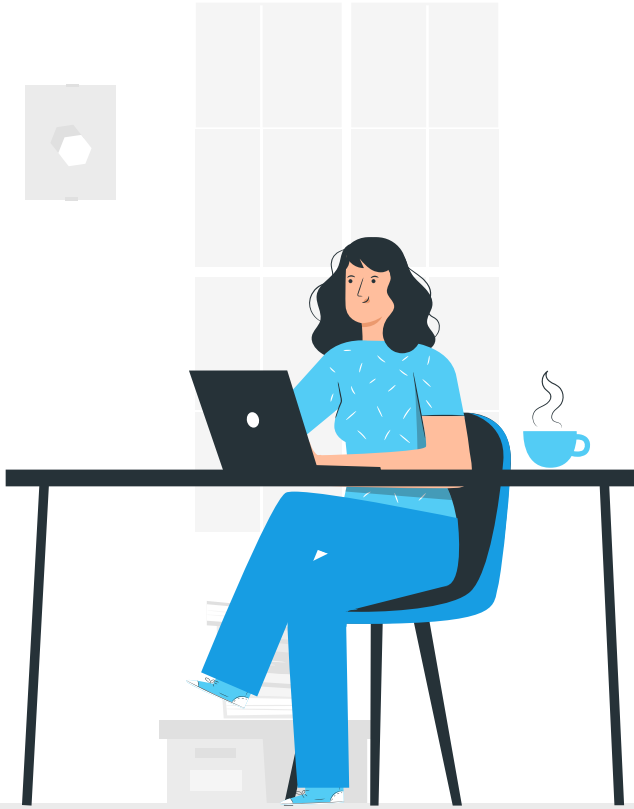
Our Solution:

01 Combat Low Graduation Rates

02 Improve advisement @CCNY

03 Create a user friendly Online Advisement Platform

Create AdviseMe



Student Version
Core functionalities:

01 Profile of Student

02 Checklist and Apply for graduation button

03 Live Advisement Form

04 Workflow system for Student

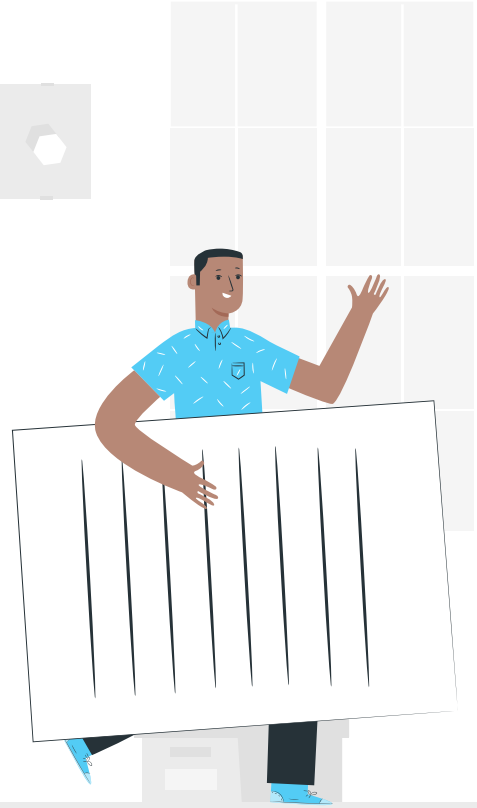
Faculty Version
Core functionalities:

01 List of students in Need of Advisement

02 Archive (Previous student advisement)

03 Edit Workflow and Edit Advisement Form

04 View list of Upcoming Graduates



Our Tech Stack:

Front End:

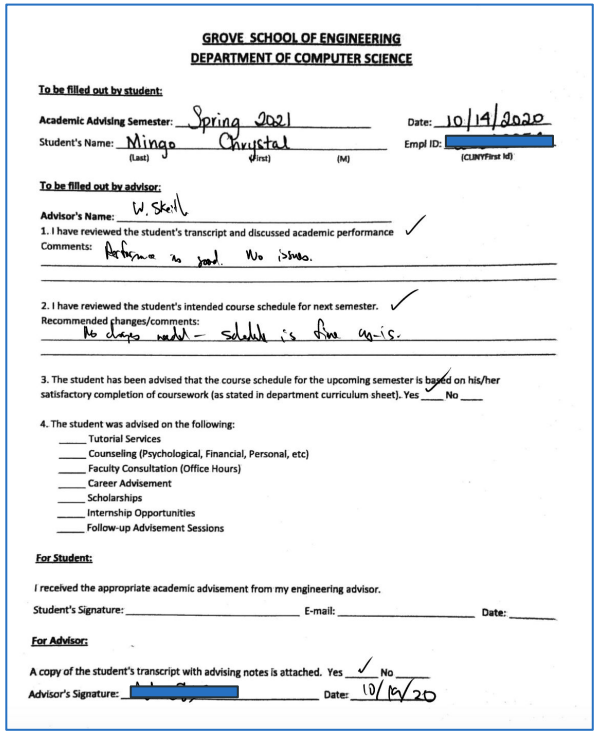
HTML | CSS | JavaScript | Bootstrap

Back End:

Python (Flask) | SQLAlchemy

DEMO

Live Advisement PDF @CCNY



GROVE SCHOOL OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE

To be filled out by student:

Academic Advising Semester: Spring 2021 **Date:** 10/19/2020

Student's Name: Mingo (Last) Chrystal (First) (M) **Empl ID:** [redacted] (CUNYFirst Id)

To be filled out by advisor:

Advisor's Name: W. Skeith

1. I have reviewed the student's transcript and discussed academic performance ✓
Comments: Performance is good. No issues.

2. I have reviewed the student's intended course schedule for next semester. ✓
Recommended changes/comments: No changes needed – schedule is fine as-is.

3. The student has been advised that the course schedule for the upcoming semester is based on his/her satisfactory completion of coursework (as stated in department curriculum sheet). Yes ✓ No ___

4. The student was advised on the following:
- ___ Tutorial Services
- ___ Counseling (Psychological, Financial, Personal, etc)
- ___ Faculty Consultation (Office Hours)
- ___ Career Advisement
- ___ Scholarships
- ___ Internship Opportunities
- ___ Follow-up Advisement Sessions

For Student:

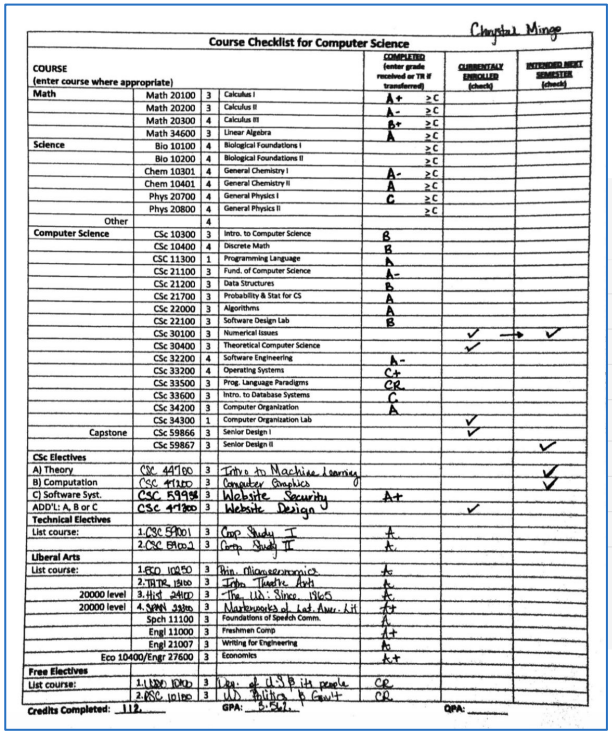
I received the appropriate academic advisement from my engineering advisor.

Student's Signature: _____ E-mail: _____ Date: _____

For Advisor:

A copy of the student's transcript with advising notes is attached. Yes ✓ No ___

Advisor's Signature: [redacted] Date: 10/19/20



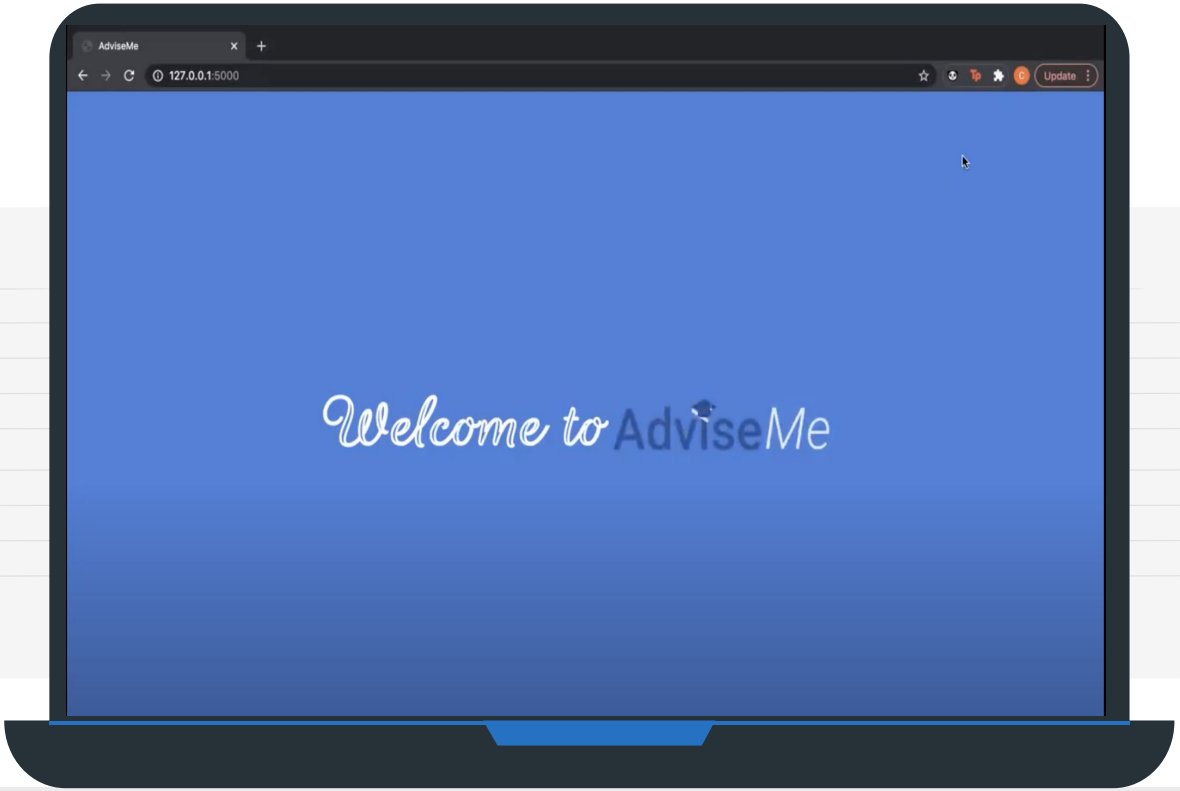
Chrystal Mingo

Course Checklist for Computer Science

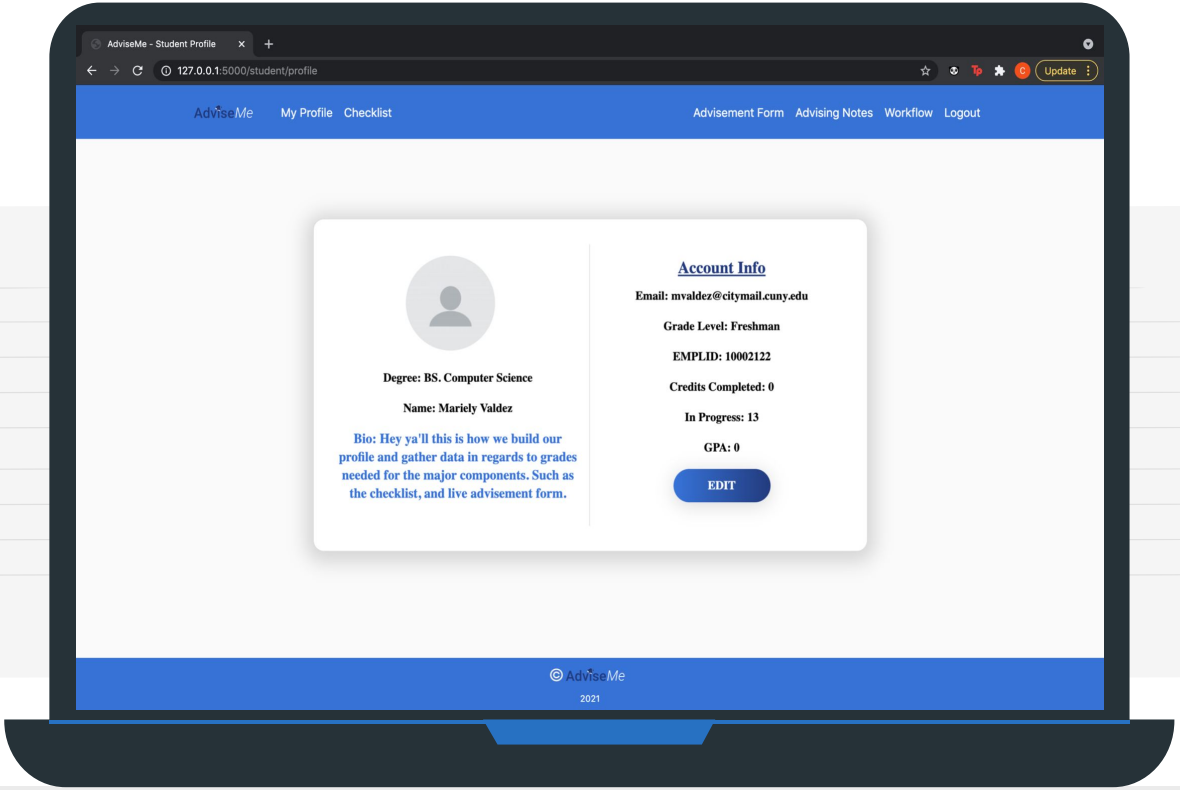
COURSE (enter course where appropriate)				COMPLETED (enter grade received or TR if transferred)		CURRENTLY ENROLLED (check)	INTENDED NEXT SEMESTER (check)
Math	Math 20100	3	Calculus I	A+	≥C		
	Math 20200	3	Calculus II	A-	≥C		
	Math 20300	4	Calculus III	A+	≥C		
	Math 34600	3	Linear Algebra	A	≥C		
Science	Bio 10100	4	Biological Foundations I		≥C		
	Bio 10200	4	Biological Foundations II		≥C		
	Chem 10301	4	General Chemistry I	A-	≥C		
	Chem 10401	4	General Chemistry II	A	≥C		
	Phys 20700	4	General Physics I	C	≥C		
	Phys 20800	4	General Physics II		≥C		
Other		4					
Computer Science	CSc 10300	3	Intro. to Computer Science	B			
	CSc 10400	4	Discrete Math	B			
	CSC 11300	1	Programming Language	A			
	CSc 21100	3	Fund. of Computer Science	A-			
	CSc 21200	3	Data Structures	B			
	CSc 21700	3	Probability & Stat for CS	A			
	CSc 22000	3	Algorithms	A			
	CSc 22100	3	Software Design Lab	B			
	CSc 30100	3	Numerical Issues			✓ →	✓
	CSc 30400	3	Theoretical Computer Science			✓	
	CSc 32200	4	Software Engineering	A-			
	CSc 33200	4	Operating Systems	C+			
	CSc 33500	3	Prog. Language Paradigms	CR			
	CSc 33600	3	Intro. to Database Systems	C			
	CSc 34200	3	Computer Organization	A			
	CSc 34300	1	Computer Organization Lab			✓	
Capstone	CSc 59866	3	Senior Design I			✓	
	CSc 59867	3	Senior Design II				✓
CSc Electives							
A) Theory	CSC 44700	3	Intro to Machine Learning				✓
B) Computation	CSC 47200	3	Computer Graphics				✓
C) Software Syst.	CSC 59958	3	Website Security	A+			
ADD'L: A, B or C	CSC 47200	3	Website Design			✓	
Technical Electives							
List course:	1.CSC 59001	3	Comp Study I	A			
	2.CSC 59002	3	Comp Study II	A			
Liberal Arts							
List course:	1.ESD 10850	3	Prin. Microeconomics	A			
	2.THTR 1400	3	Intro Theatre Arts	A			
20000 level	3.Hist 24100	3	The US: Since 1865	A			
20000 level	4.ENGL 35200	3	Masterworks of Lat. Amer. Lit	A+			
	Spch 11100	3	Foundations of Speech Comm.	A			
	Engl 11000	3	Freshmen Comp	A+			
	Engl 21007	3	Writing for Engineering	A			
	Eco 10400/Engr 27600	3	Economics	A+			
Free Electives							
List course:	1.HIST 10400	3	Hist. of U.S. with people	CR			
	2.PSC 10100	3	US Politics & Govt	CR			

Credits Completed: 112 **GPA:** 3.562 **QPA:** _____

Homepage



Student Info Form



VEED.IO

Course Info Form

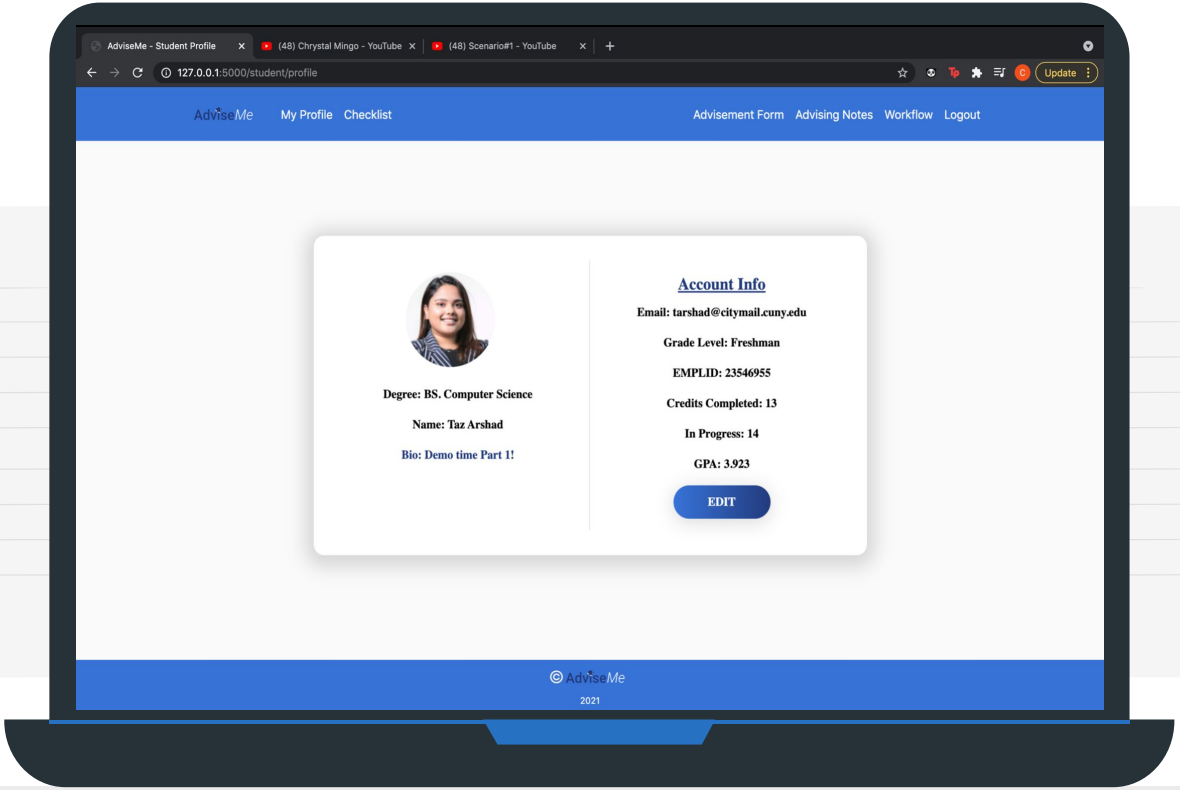
Name: Marisly Valdez

EMPLID: 10002122

Course Code:	Credits awarded:	Course Name:	Grade:
Math:			
MATH 20100	Calculus I	3	
MATH 20200	Calculus II	3	
MATH 20300	Calculus III	4	
MATH 34600	Elements of Linear Algebra	3	
Sciences:			
BIO 20100	Biological Foundations I	4	

Scenario #1

Student Advisement Process for student below 45 credits

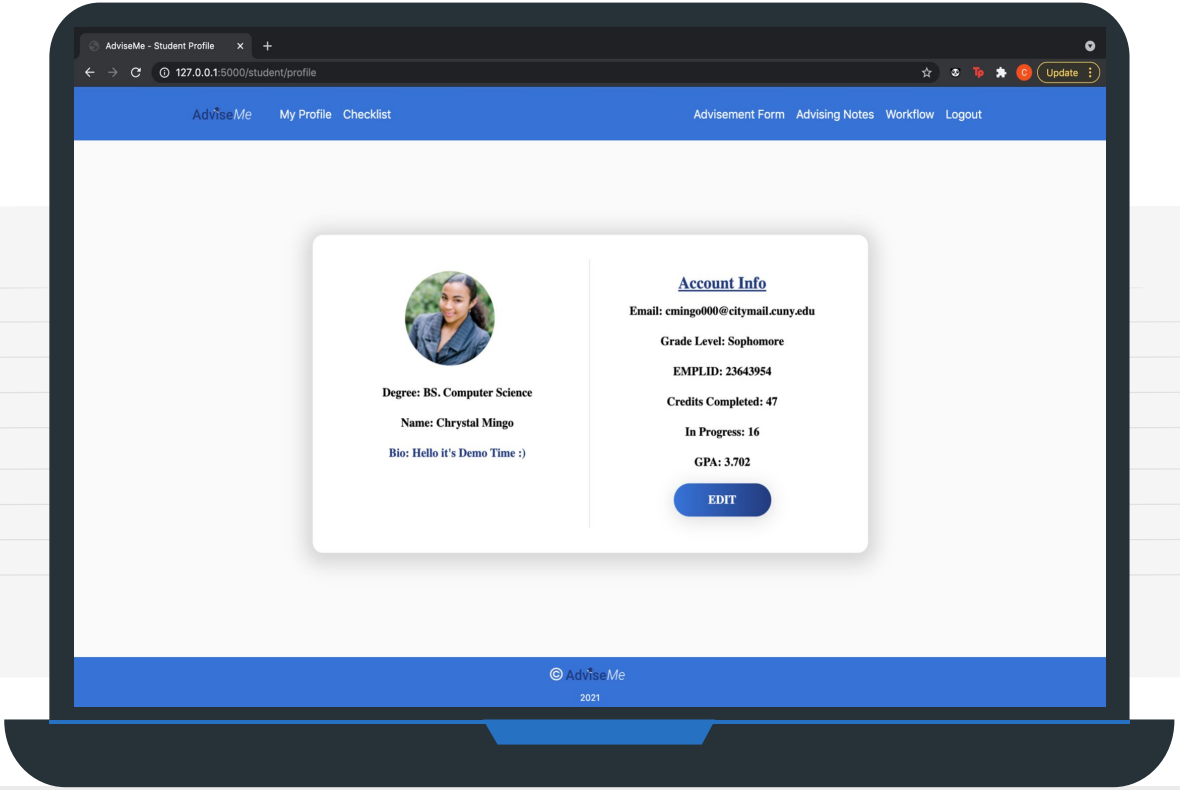


VEED.IO

Filled out Advisement Form
Academic Advisor Revision
Enrollment Approved

Scenario #2

Student Advisement Process for student above 45 credits



VEED.IO

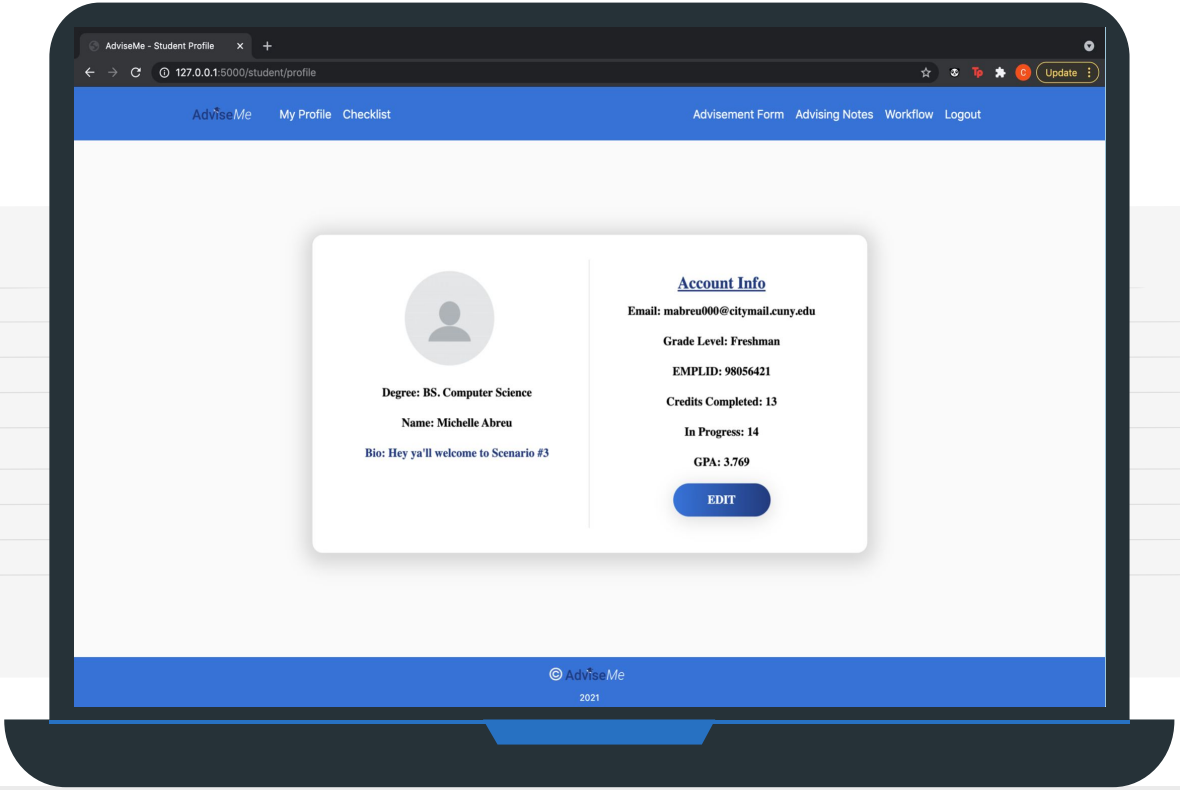
Your Student's Advisement Record

Arshad, Taz

Mingo, Chrystal

Scenario #3

Student Advisement Form Rejected Process



VEED.IO

Filled out Advisement Form

Academic Advisor Revision

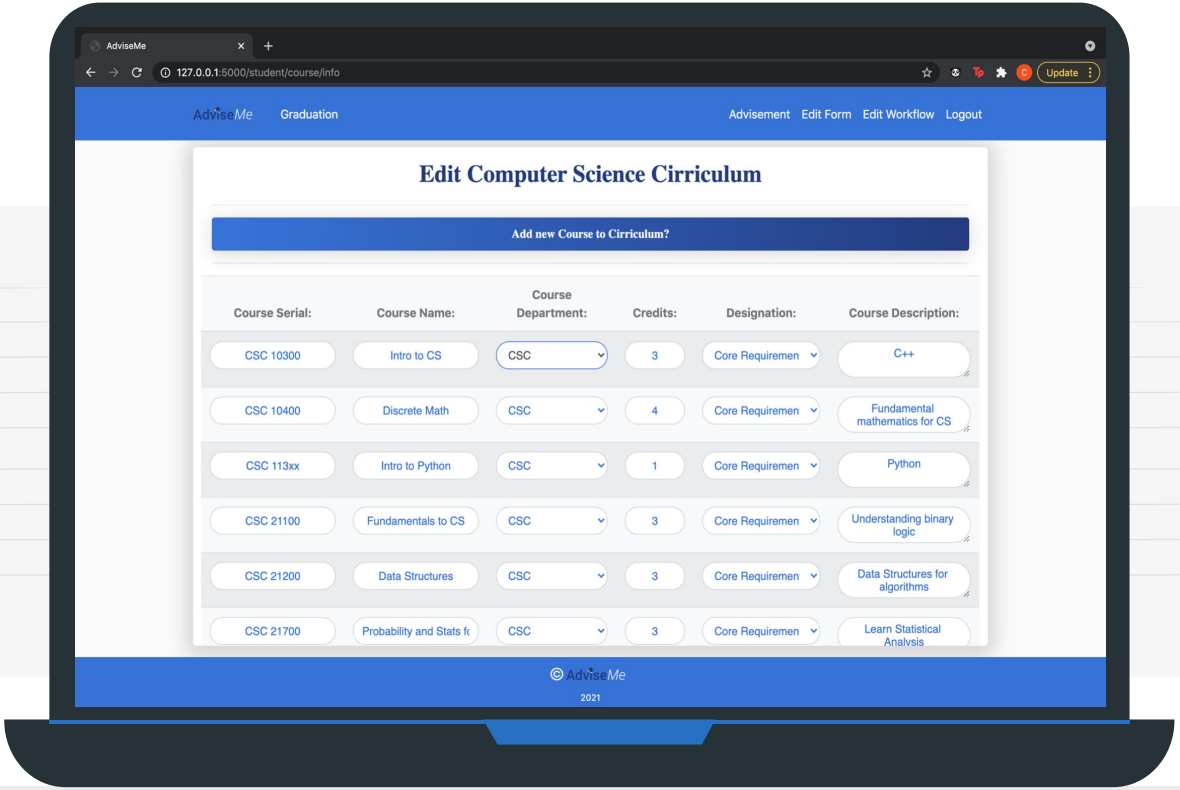
Enrollment Approved

Notice:

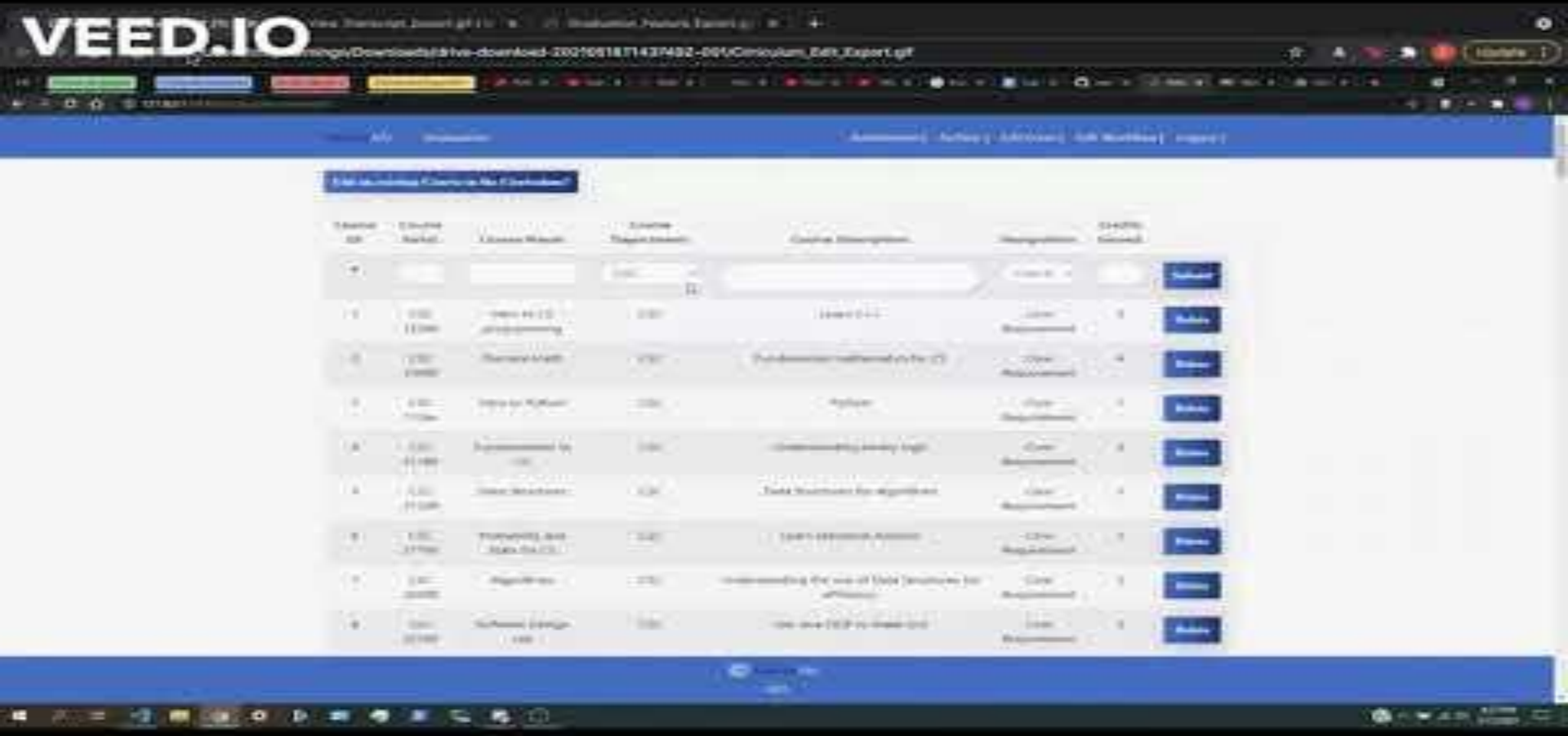
Your advisement form has been declined by Academic advisor.
Please revise.

Revise Advisement Form

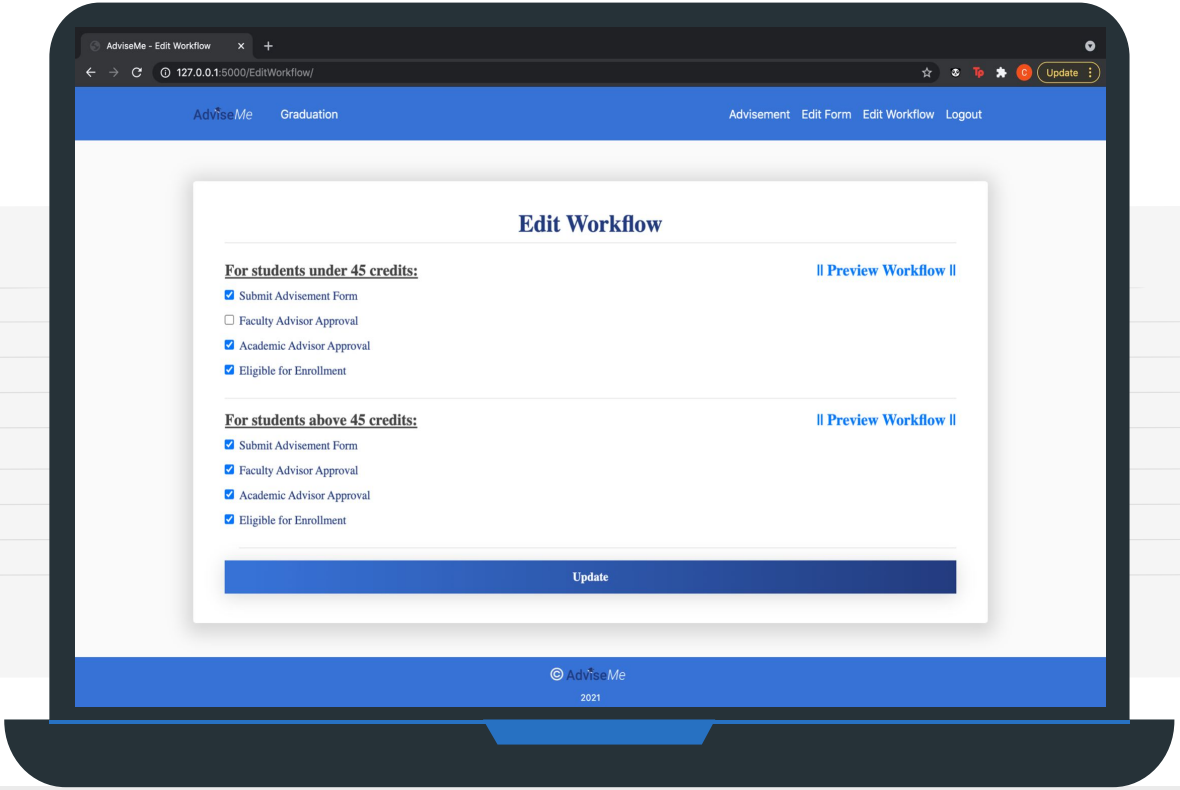
View Edit Form

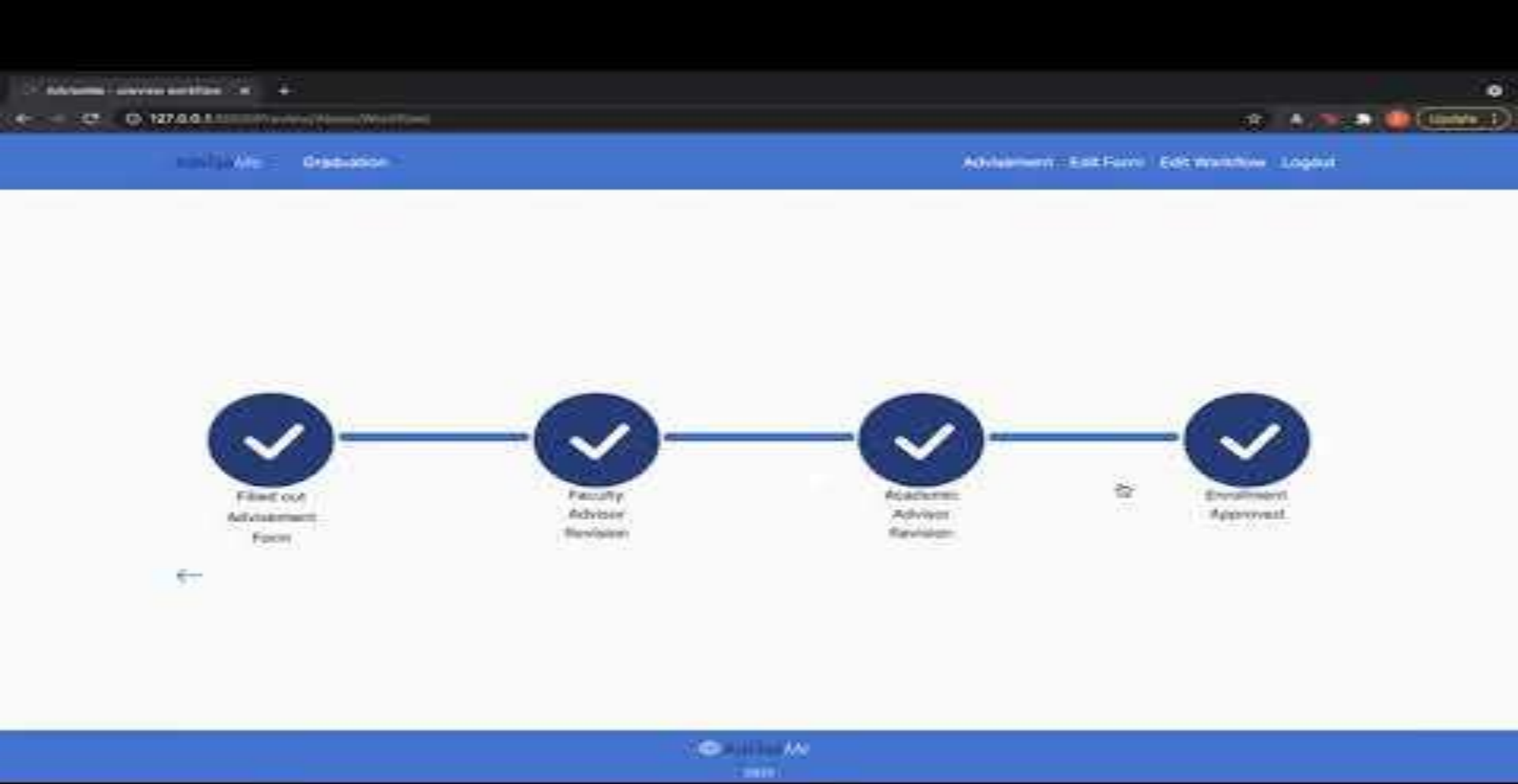


VEED.IO



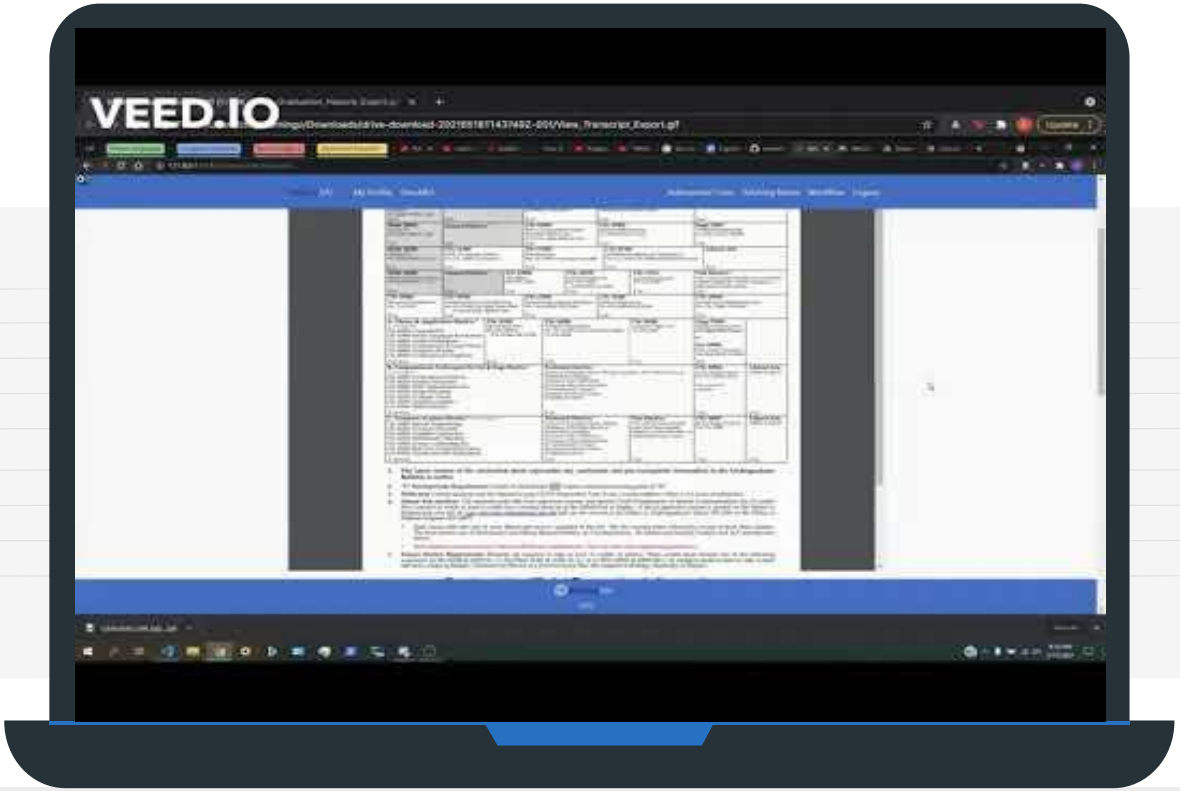
View Edit Workflow




Graduation
Advisement
Edit Form
Edit Workflow
Logout
Filled out Advisement Form
Faculty Advisor Revision
Academic Advisor Revision
Enrollment Approved

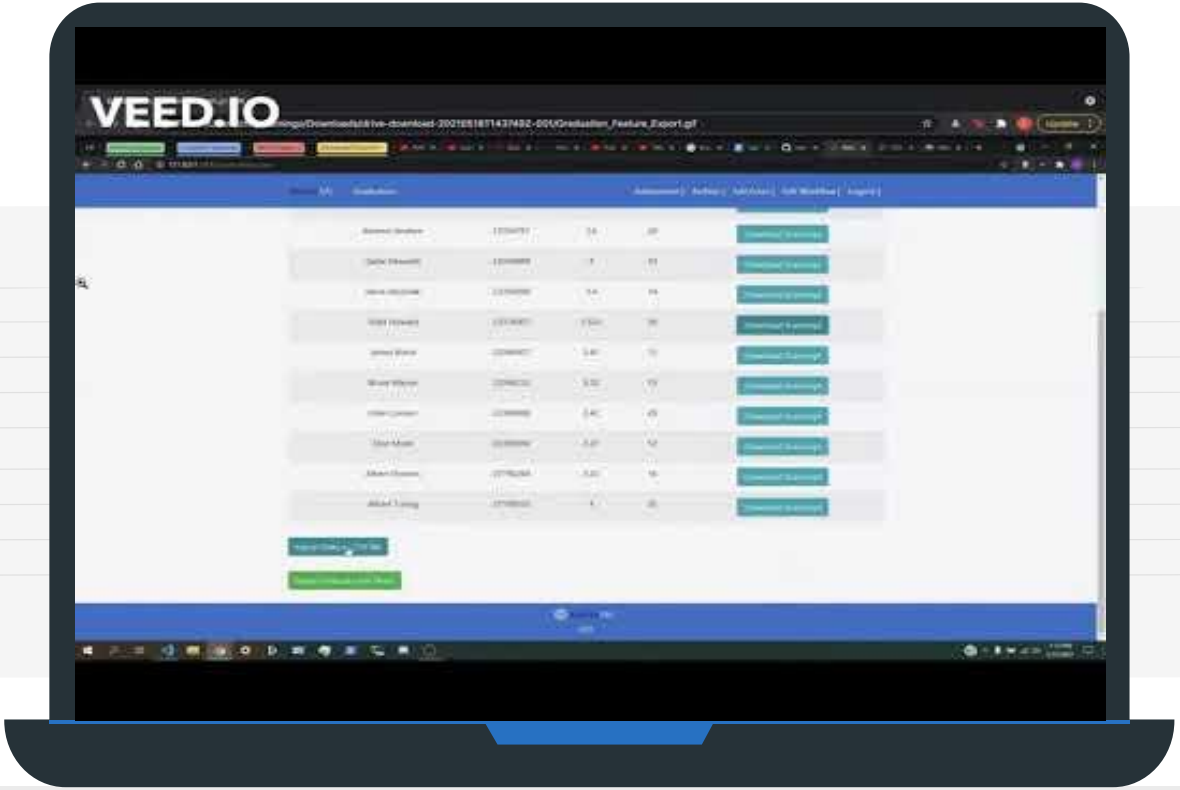
Special Features

Students can view their course curriculum and transcript

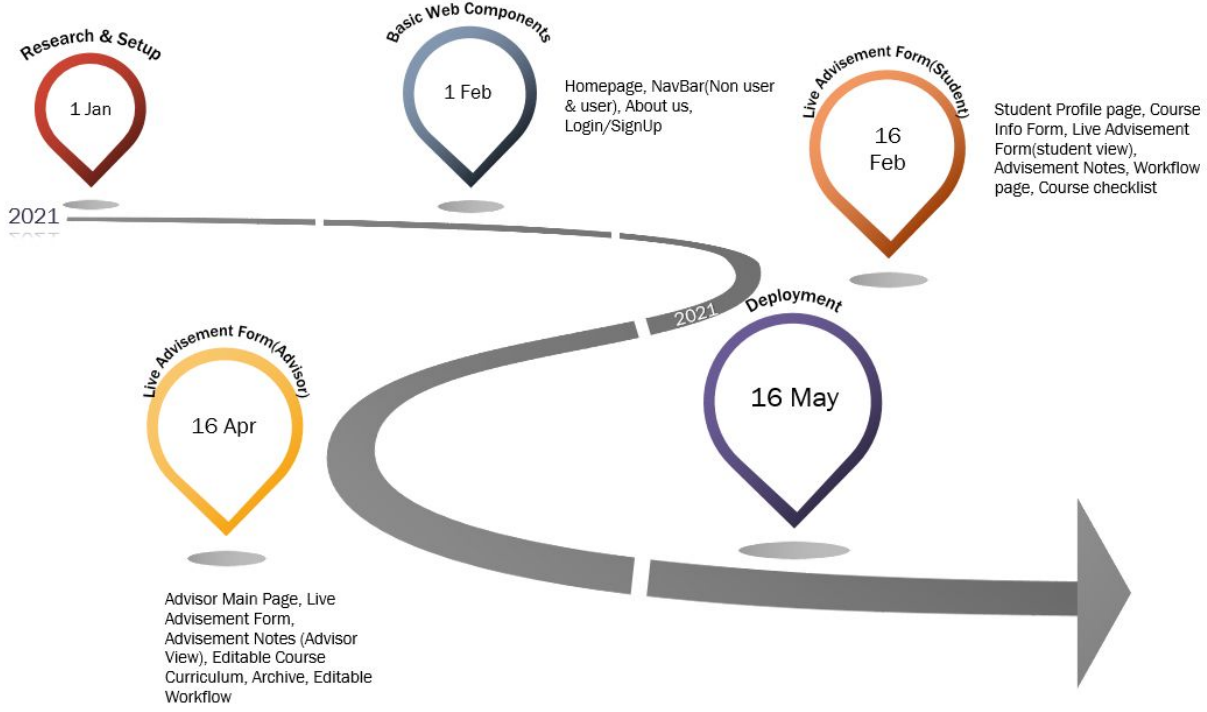


Special Features

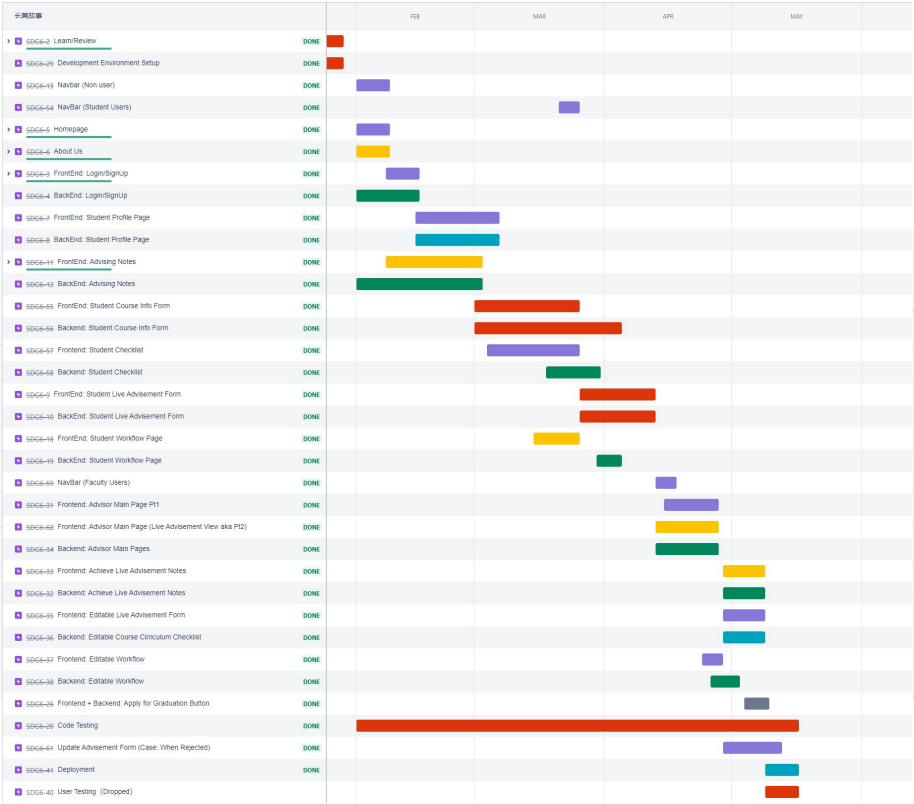
Faculty can view all students who are eligible for graduation



Timeline:


Research & Setup
1 Jan
2021
Basic Web Components
1 Feb
Homepage, NavBar(Non user & user), About us, Login/SignUp
Live Advisement Form(Student)
16 Feb
Student Profile page, Course Info Form, Live Advisement Form(student view), Advisement Notes, Workflow page, Course checklist
2021
Deployment
16 May
Live Advisement Form(Advisor)
16 Apr
Advisor Main Page, Live Advisement Form, Advisement Notes (Advisor View), Editable Course Curriculum, Archive, Editable Workflow

Jira Workflow



Take a closer look: https://bit.ly/AdviseMe-Jira

Legend:

Team

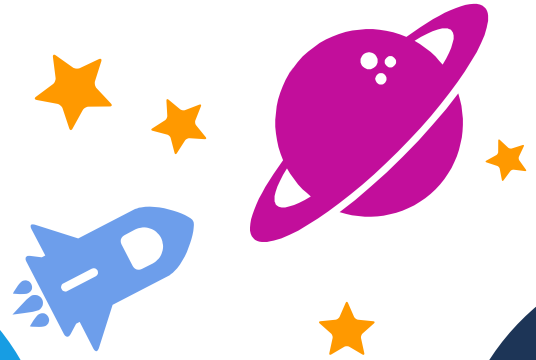
Rehman Arshad

Xunshan Lin

Zhicong Wen

Chrystal Mingo

Overall Accomplishments:



Created a user-friendly Online Advisement Platform

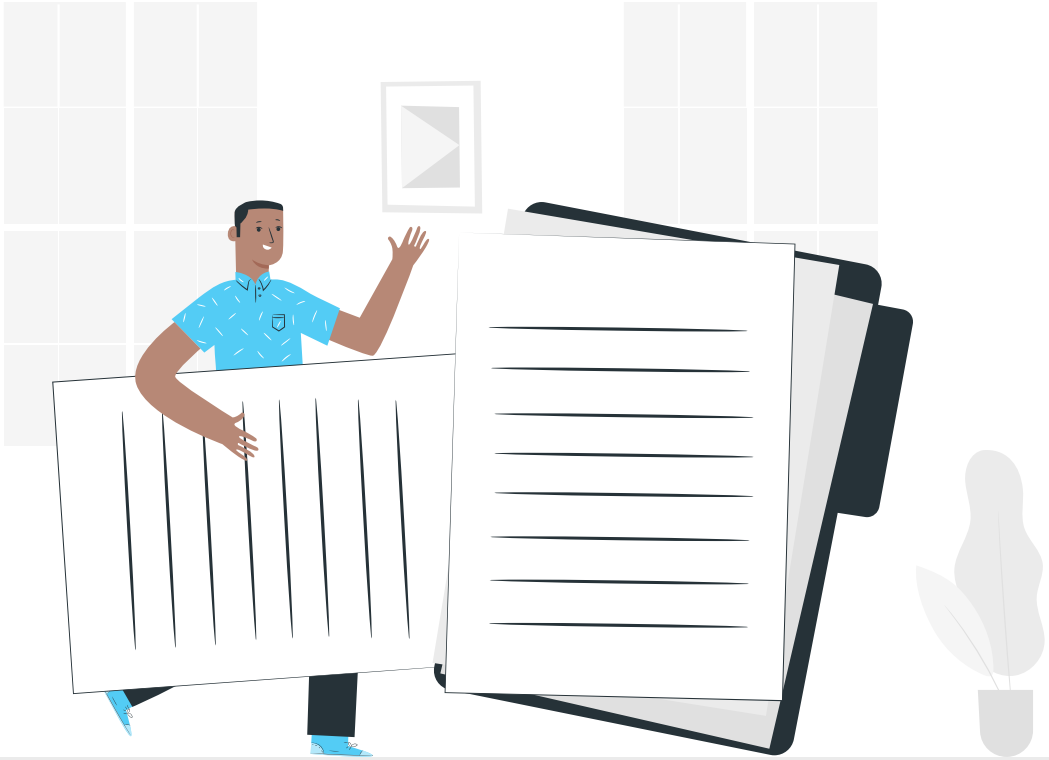
WE CREATED AdviseMe

Automated Advisement @CCNY

GPA & QPA calculator

Degree Completion Checklist

THANKS

for listening

Do you have any questions?