

# ***GRAD SCHOOL ZERO TEAM T***

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*Software Requirements Specification*

*CCNY Grove School of Engineering | CSC 322 Software  
Engineering*

Grad School Zero – Team T	Version: 1.1
Software Requirements Specification	Date: 11/26/2021
332-T-2021	

### Revision History

Date	Version	Description	Author
10/24/21	draft	First pass - draft	J. Berdecia
10/25/21	1.0	Incorporate teammates' review comments	J. Berdecia
11/21/21	1.1	Use cases, exceptional scenarios	J. Berdecia
11/21/21	1.2	System Screens & Prototype of functionality	B. Debi
11/23/21	1.3	E-R Diagram	J. Berdecia
11/25/21	1.4	Introduction, UML Collaboration Class Diagram	I. Kumar
11/26/21	1.5	Detailed design	D. Aguilar-Rodriguez
11/26/21	1.6	Petri-Net Diagrams	J. Berdecia

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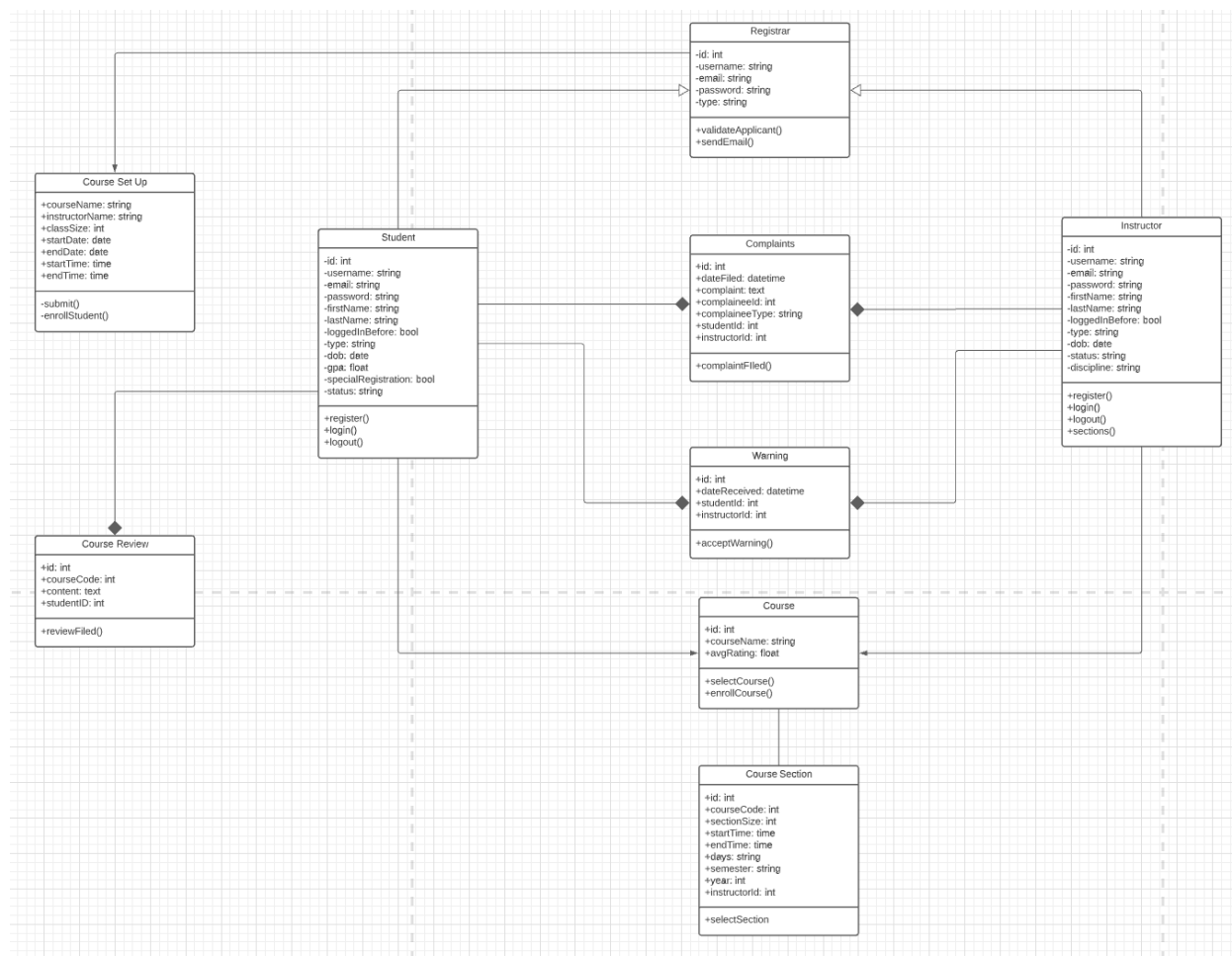
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## Introduction

*GradSchoolZero* is a web-based university management system designed for students and faculty to access curricula. Students will be able to view courses that they are enrolled in, as well as the grade in those courses. Students are able to file complaints against instructors or other students, whereas the faculty can only file complaints against their students. The registrar has the most control of this system. Enrollments, setting up courses, and sending out warnings are a few of the responsibilities that registrar holds. Everyone else who views *GradSchoolZero* will be able to see things like highest and lowest rated classes and exceptional students who have a high GPA.



## Use Cases

### Visitor applies to be an instructor

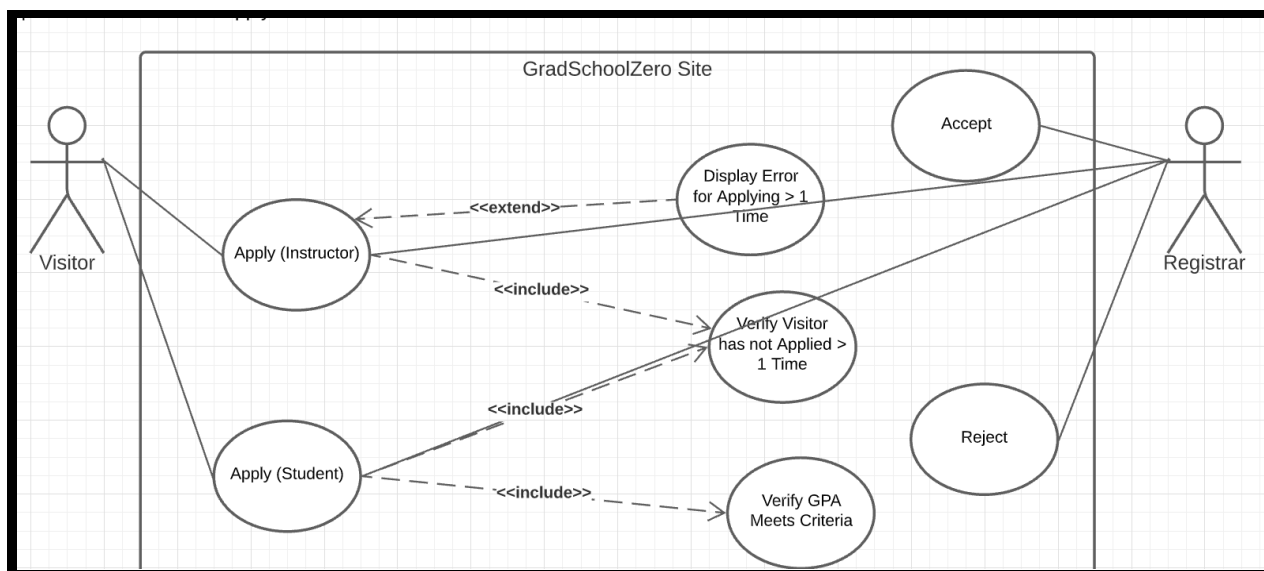
1. Visitor hovers over apply tab and clicks “INSTRUCTOR”

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2. Visitor arrives at form and enters date of birth, discipline, name, GPA, and email
3. Visitor clicks “SUBMIT”
4. Visitor receives email with application decision
5. If accepted, visitor will receive unique username and temporary password
6. EXCEPTIONAL: If visitor applies more than once, prompt will display notifying that visitor has already submitted an application and cannot re-apply

#### **Visitor applies to be a student**

1. Visitor hovers over apply tab and clicks “STUDENT”
2. Visitor arrives at form and enters date of birth, name, and email
3. Visitor clicks “SUBMIT”
4. Visitor receives email with application decision
5. If accepted, visitor will receive unique username and temporary password
6. EXCEPTION: If visitor applies more than once, prompt will display notifying that visitor has already submitted an application and cannot re-apply



Use-case diagram for the student/instructor application process. Error will display if the student/instructor applies more than once. Student will enter their GPA.

#### **Student/instructor changes password upon first login**

1. Student/instructor logs in with unique username and temporary password
2. Student/instructor is prompted to change password on dashboard
3. Student/instructor populates fields with new password
4. If password meets requirements, student/instructor is notified that the password has been changed
5. EXCEPTION: If password does not meet requirements, student/instructor is re-prompted to enter new password

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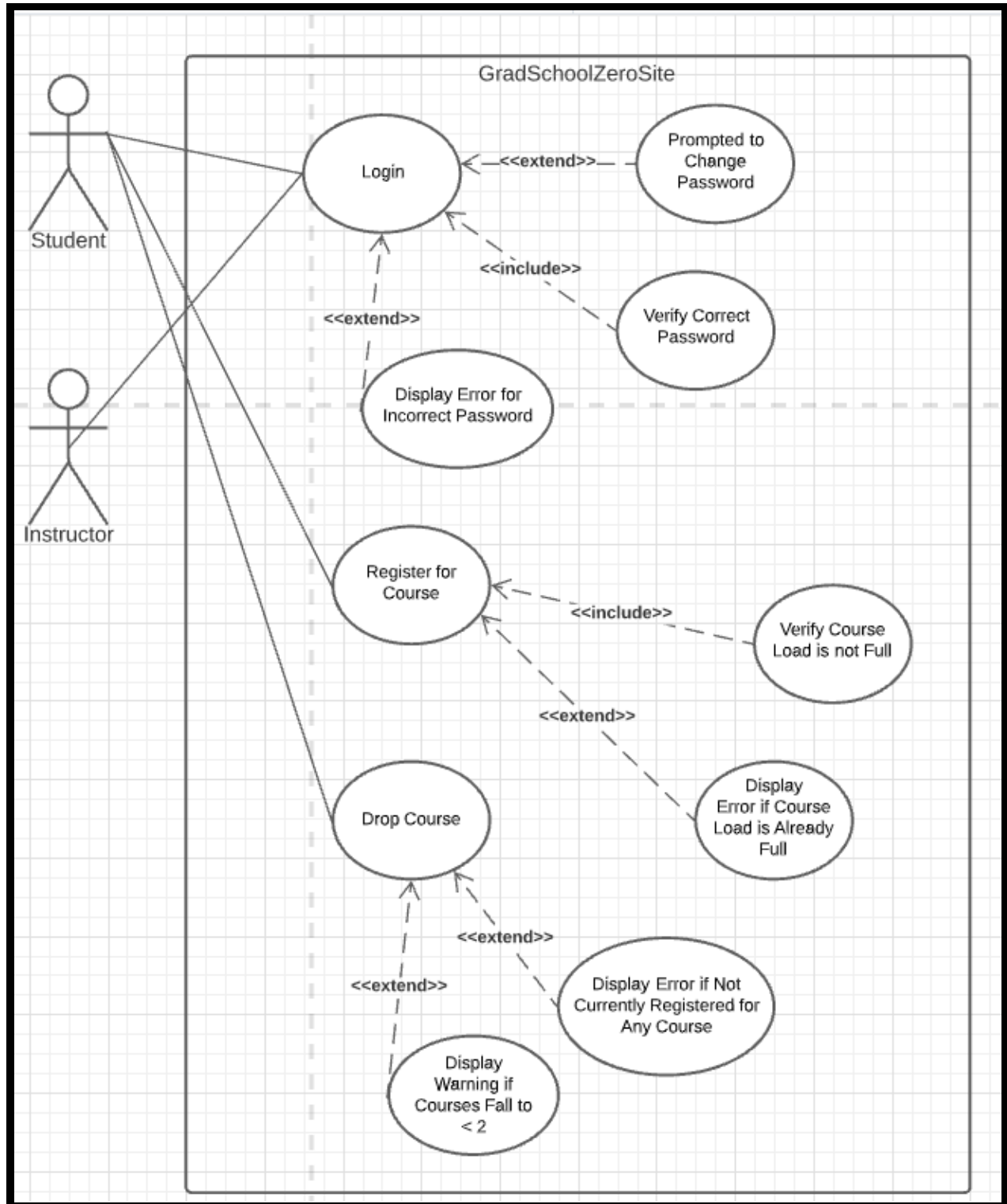
### **Student registers for a course**

1. Student logs into site and lands in dashboard
2. Student clicks register
3. Student selects course and presses submit
4. EXCEPTION: Student is currently registered for 5 courses, the course registration page will raise a prompt saying that student is registered for the maximum number of courses
5. EXCEPTION: Student is already registered with  $\geq 2$  courses (not qualified to register during the special period), the course registration page will raise a prompt that student is not approved to register at this time
6. EXCEPTION: Student is registering when not in the course registration period, the course registration page will raise a prompt that student is not approved to register at this time

### **Student drops course**

1. Student logs in to *GSZ* and is redirected to the dashboard
2. Student scrolls down to current course list
3. Student clicks button displayed as 'Drop Class' next to corresponding course
4. Student dashboard refreshes with corresponding course specified as 'DROPPED'
5. EFFECT: Student is warned if falling to  $< 2$  courses
6. EFFECT: Student is suspended if dropped all courses
7. EFFECT: Student gets grade of W when dropping class between the course registration and grading periods
8. EXCEPTION: Student drops course when not in between the course registration and grading periods, button will be grayed-out

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Petri-Net diagram displaying process of registering and dropping a course. If a student already has a full course load, an error will be displayed if trying to register for an additional course. If the student's course load falls to  $<2$ , a warning will be displayed.

#### **Student reviews course**

1. Student logs into site and lands in dashboard
2. Student clicks course, and then clicks review course
3. Student enters number of stars and written review
4. EFFECT: Student gets warning for 1 or 2 taboo word(s) (which are censored \*\*\*\*)
5. EXCEPTION/EFFECT: Student gets 2 warnings for  $\geq 3$  taboo words and review is not posted
6. EXCEPTION: Student attempts to review course outside of the course running period, review button will be gray-ed out

#### **Student applies for graduation**

1. Student logs into site and lands in dashboard
2. Student clicks apply for graduation
3. Student graduates and leaves the system
4. EXCEPTION: Student has not met graduation requirements, receives warning for reckless graduation application

#### **Student files complaint**

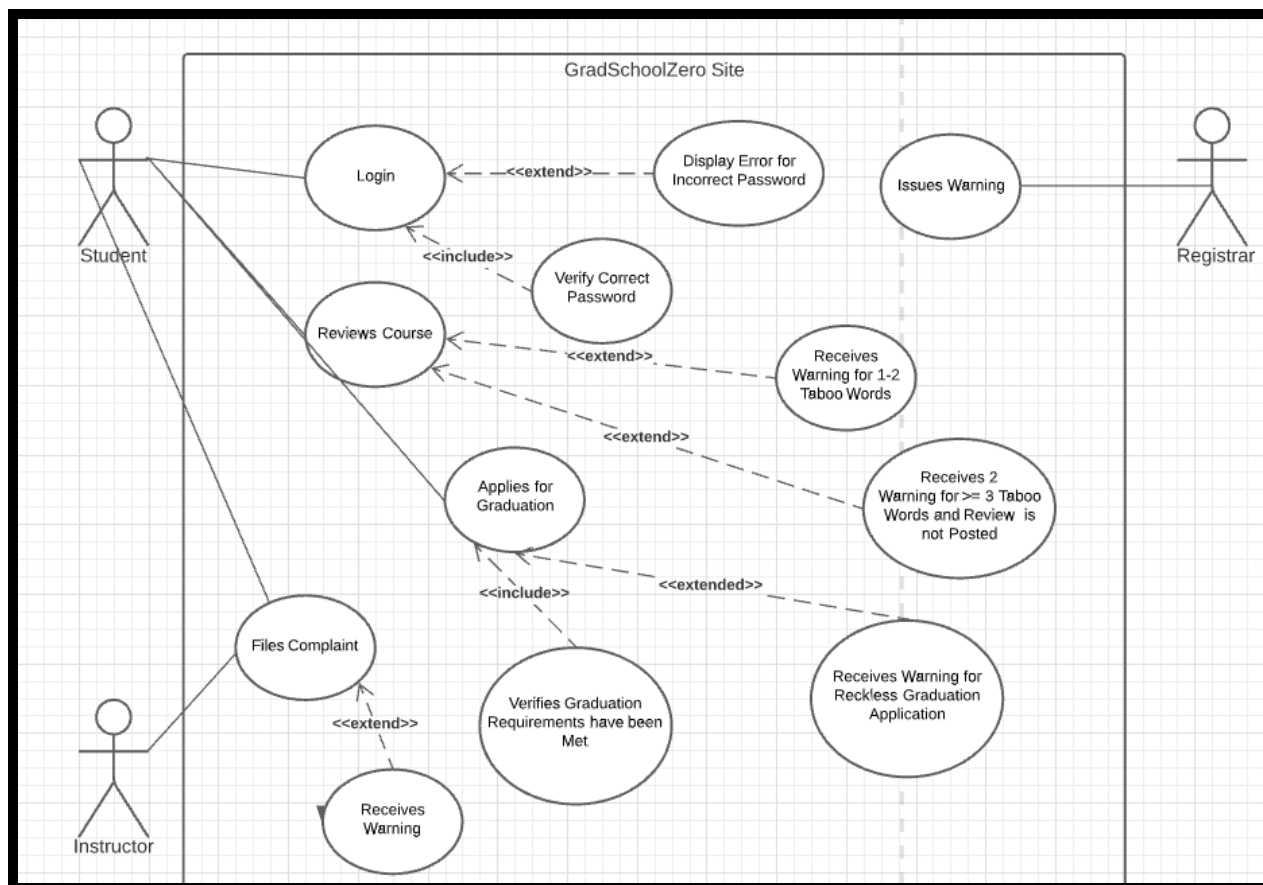
1. Student logs into site and lands on the dashboard
2. Student presses file a complaint
3. Student populates the text box (to complain about another student or instructor) and submits
4. EFFECT: Student or instructor gets a warning
5. EFFECT: Student receiving their third warning will be suspended for a semester

#### **Instructor files complaint**

1. Instructor logs into site and lands on the dashboard
2. Instructor presses file a complaint
3. Instructor populates the text box and submits
4. EFFECT: Student gets punished or instructor gets a warning



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Petri-Net diagram displaying processes for filing complaints, applying for graduation and reviewing courses. Diagram accounts for taboo words, graduation requirements not met, and other warnings by the registrar.

#### **Instructor allows wait-listed student to take a course**

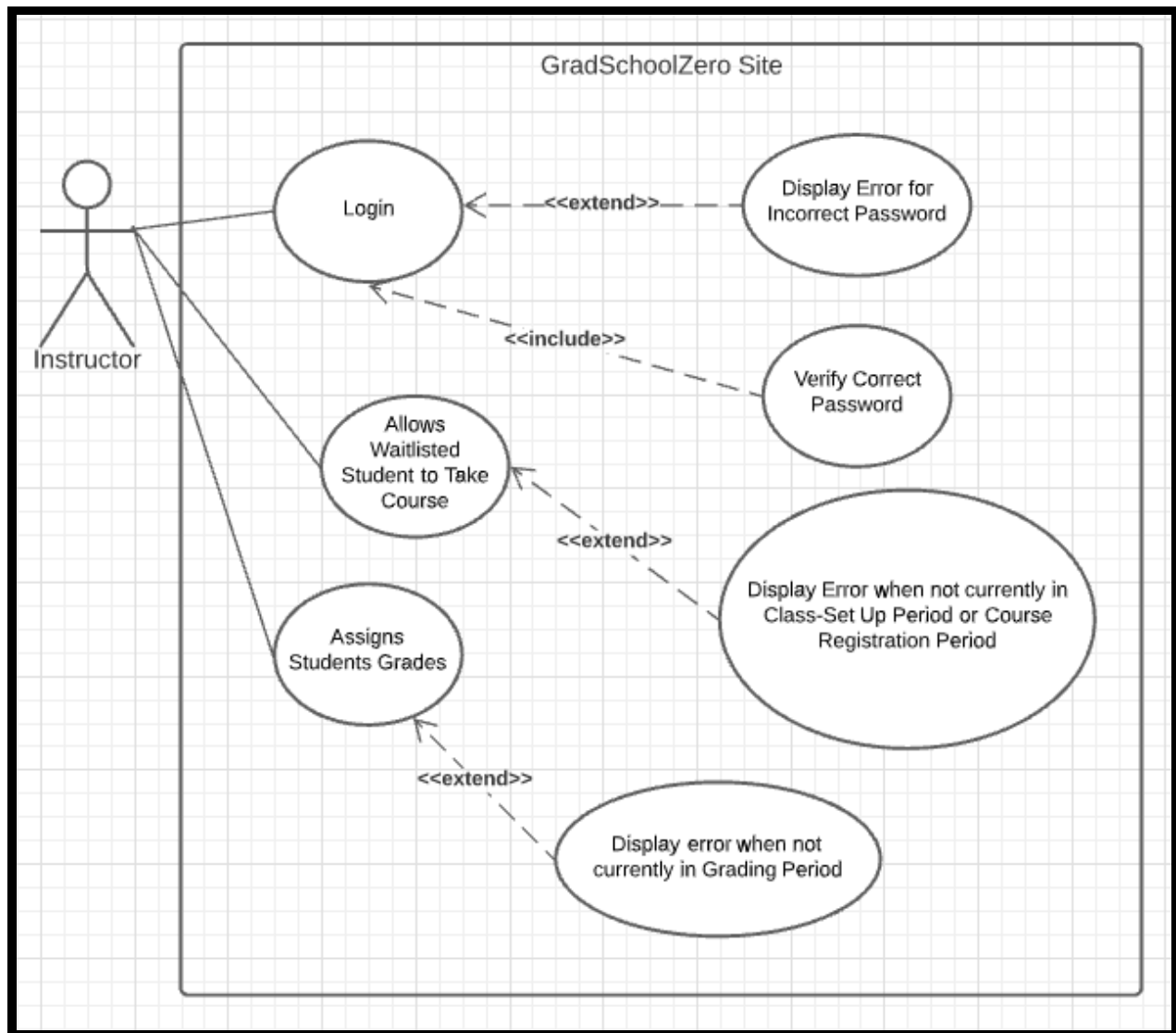
1. Instructor logs into site and lands on the dashboard
2. Instructor presses wait-list on dashboard
3. Instructor presses admit next to chosen student
4. EXCEPTION: Instructor attempt to admit student when not during class-set up period or course registration period, admit button will be grayed-out

#### **Instructor assigns students grades**

1. Instructor logs in to *GSZ* and is redirected to dashboard
2. Instructor clicks button displayed as 'Assign Grades'
3. Instructor is redirected to page with assigned courses and corresponding students
4. Instructor assigns grades to students using dropdowns next to each student name
5. Instructor presses submit and the page is refreshed with corresponding students with their grades assigned

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6. EXCEPTION: Instructor tries to assign grades when not in grading period, grading button will be gray-ed out



Petri-Net diagram displays additional roles for instructor.

### **Registrar cancels a course**

1. Registrar logs into site and lands on the dashboard
2. Registrar clicks on course database and clicks cancel next to a selected course
3. EXCEPTION: Registrar attempts to cancel a course when not in the class-set up period, course registration or class running period
4. EFFECT: Student with < 2 courses registered may re-register during special course period

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5. EFFECT: Instructor with at least once cancelled course will be warned
6. EFFECT: Instructor with all courses cancelled will be suspended and cannot teach in the following semester

#### **Registrar creates course section**

1. Registrar logs into site and lands on the dashboard
2. Registrar clicks add course section
3. Registrar enters text fields and clicks submit
4. EXCEPTION: Registrar attempts to create course section while not in course set-up period, add course section button will be grayed-out

#### **Registrar deregisters a student**

1. Registrar logs into site and lands on the dashboard
2. Registrar clicks student database
3. Registrar hovers next to a student's name and clicks deregister
4. EFFECT: Student falls to < 2 courses and gets warned
5. EFFECT: Student falls to 0 courses and gets suspended

#### **Registrar issues a warning to student/instructor**

1. Registrar logs into site and lands on the dashboard
2. Registrar clicks student database
3. Registrar hovers next to a student's/instructor's name and clicks warn
4. EFFECT: Student receiving their third warning will be suspended for a semester

#### **Registrar changes period from Course Set-up Period to Course Registration Period**

1. Registrar logs in to *GSZ* and is redirected to dashboard
2. Registrar clicks button displayed as 'Course Registration Period'
3. Registrar is redirected to Course Registration web page

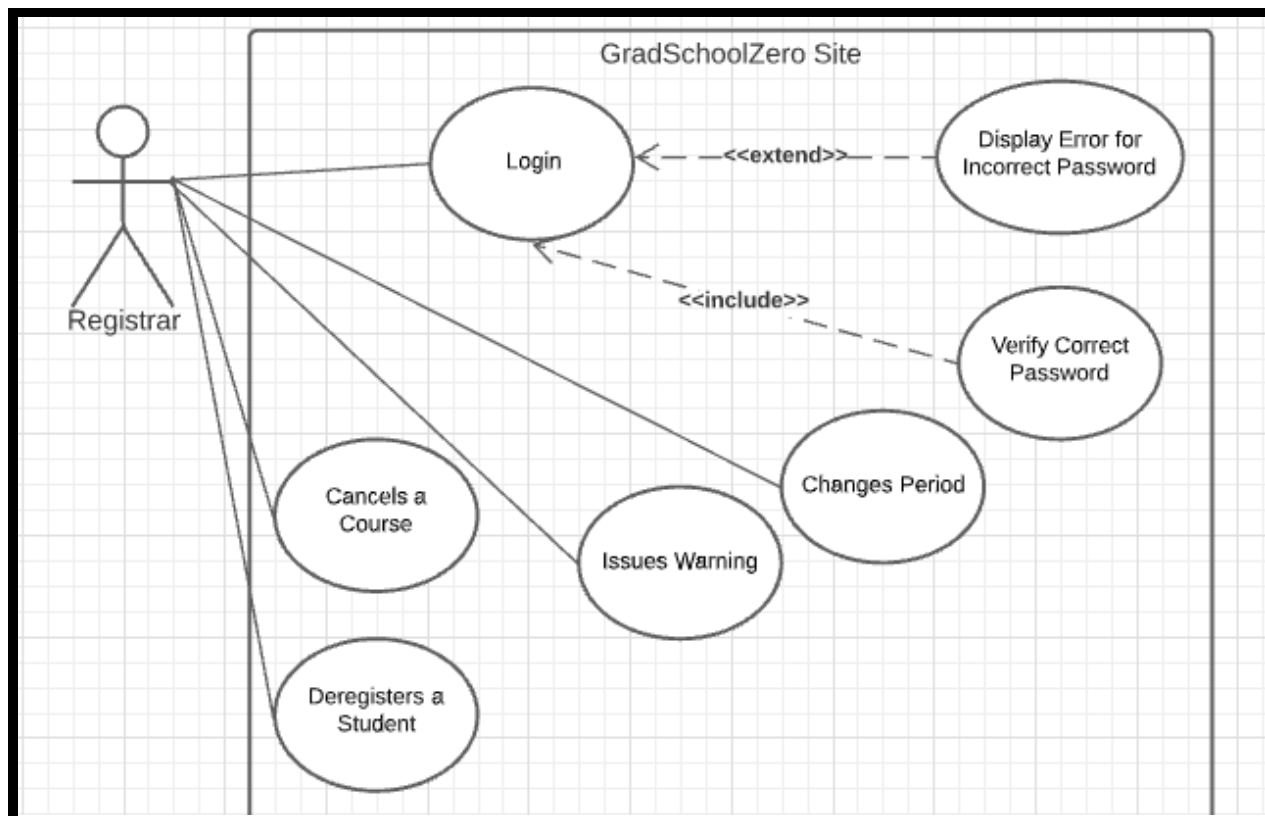
#### **Registrar changes period from Course Registration Period to Class Running Period**

4. Registrar logs in to *GSZ* and is redirected to dashboard
5. Registrar clicks button displayed as 'Class Running Period'
6. Registrar is redirected to Class Running Period web page

#### **Registrar changes period from Class Running Period to Grading Period**

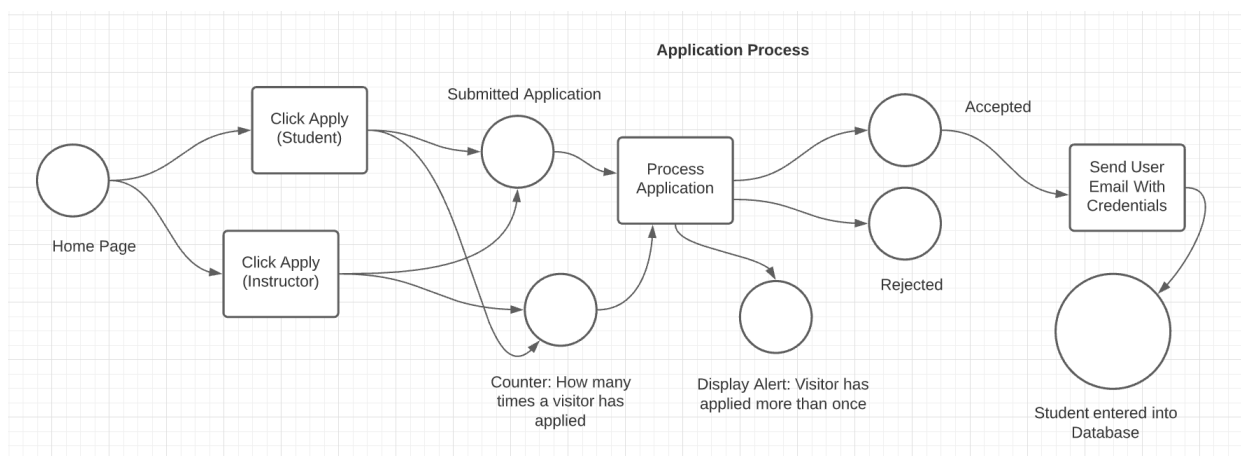
7. Registrar logs in to *GSZ* and is redirected to dashboard
8. Registrar clicks button displayed as 'Grading Period'
9. Registrar is redirected to Grading Period web page

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Petri-Net Diagram displays other roles for the registrar.

## Petri-Net Diagrams



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Diagram displaying the application process for both prospective students and instructors.  
Exception case: if a visitor has applied more than once, they will have an alert displayed and their application will not go through.

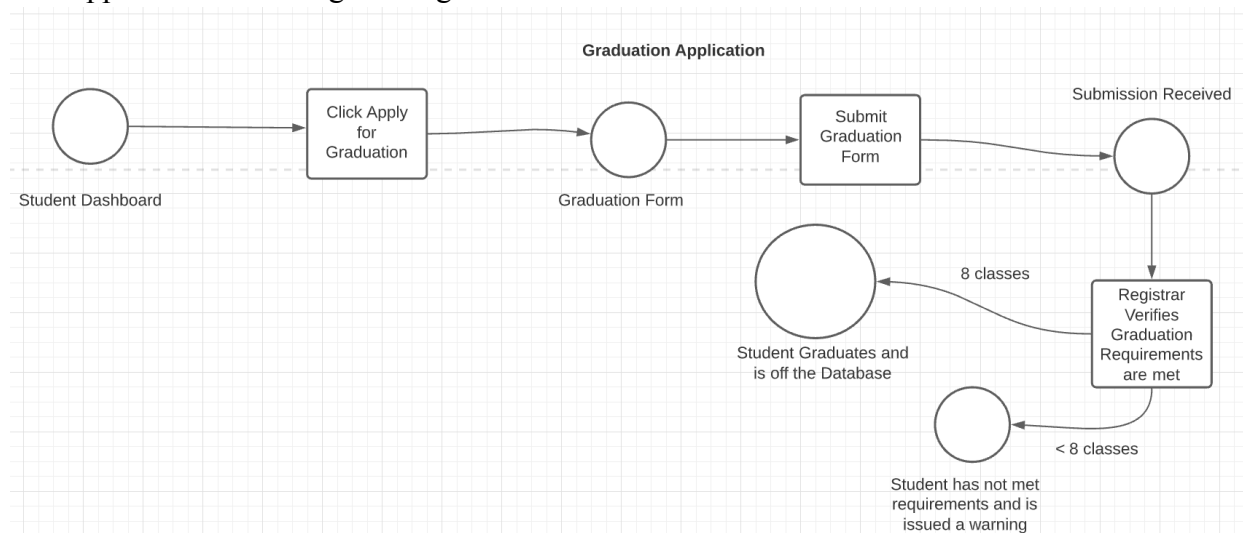


Diagram displaying the graduation application process. Exception case: if a student has not completed the required 8 classes, they will be issued a warning and not graduate.

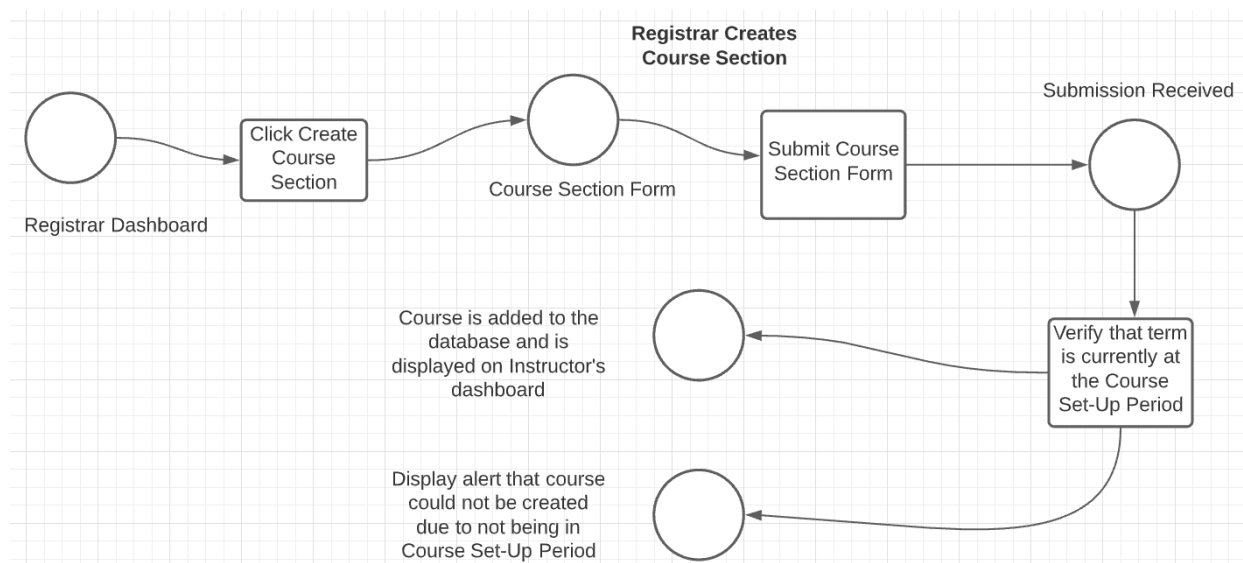
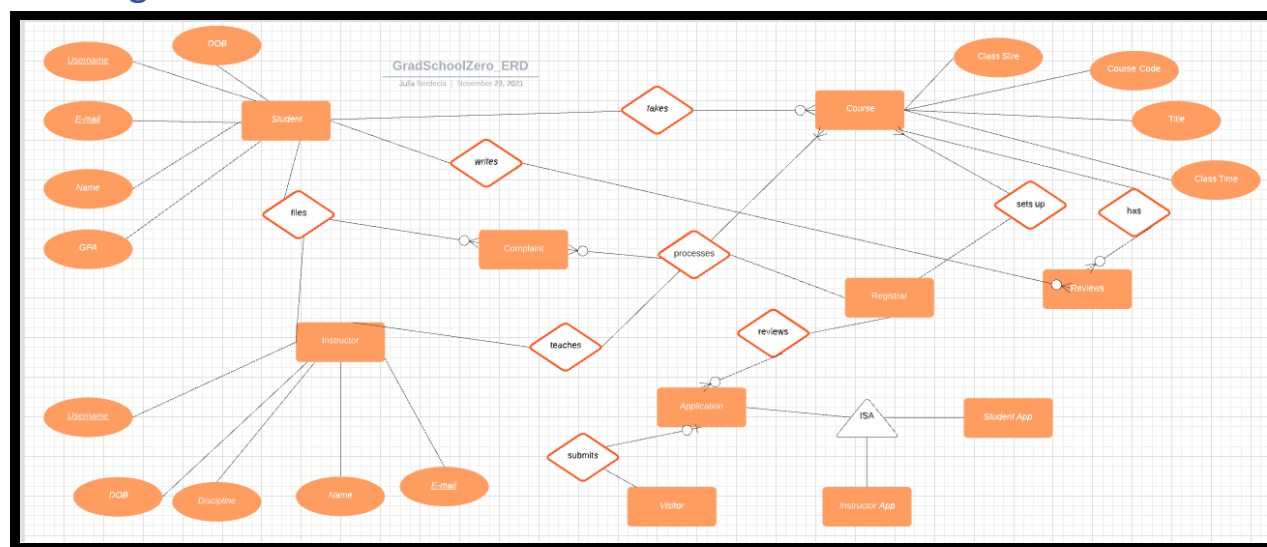


Diagram displaying the process of creating a course section (by the registrar). Exception case: registrar attempts to create a course section when it is not currently the course set-up period.

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## E-R Diagram



[Link to clear view of E-R diagram](#)

## Detailed Design

```
def generate_username(first_name, last_name):
    first_initial = first character of first_name string
    last_six = first six characters of last_name string

    partial_username = lowercase(first_initial + last_initial)

    existing_students = query list of users whose username starts
with partial_username

    if there exists students whose usernames start with
partial_username:
        last_student_username = last student's username from
existing_students list
        username = increment digit from last_student_username
    else:
        username = partial_username + '000'
```

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```

    return username

Def generate_password():
    Characters = string of all uppercase and lowercase letters,
    digits from 0 through 9, and special characters
    password = string of 16 randomly chosen characters from
    characters string variable.

    Return password

Def generate_email_content(response_dictionary):
    If response_dictionary['response'] == 'accepted':
        Content = ('congrats on being accepted. Below is your
login info' +
                    '\nUsername' + response_dictionary['username'] +
                    '\nPassword' + response_dictionary['password'])
    Else if response_dictionary['response'] == 'rejected':
        Content = ('You have been rejected.' +
                    '\nReason:' +
                    response_dictionary['reason'])

    Return content

# note: EMAIL_ADDRESS and EMAIL_PASSWORD are constant variables from
#operating system environment variables
Def send_email(recipient, content):
    msg = EmailMessage() # from email.message import EmailMessage
    msg['Subject'] = 'GradSchoolZero Admissions'
    msg['From'] = EMAIL_ADDRESS
    msg['To'] = recipient
    msg.set_content(content)

    # import smtplib at top of the python file
    With smtplib.SMTP_SSL('smtp.gmail.com', port 465) as smtp:
        smtp.login(EMAIL_ADDRESS, EMAIL_PASSWORD)
        smtp.send_message(msg)

Def home():
    Return render of home page

```

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```

Def login():
    If user is already logged in:
        Return redirect to home page

    Login_form = data entered in login form
    If login_form has been filled out correctly:
        user = query from User table by the username that was
entered in login_form
        If user exists and password hash match:
            login_user(user) #from flask_login import login_user
            If from login_form 'student' was selected and
user.type == 'student':
                Return redirect to student dashboard

                If from login_form 'instructor' was selected and
user.type == 'instructor':
                    Return redirect to instructor dashboard

                    If from login_form 'registrar' was selected and
user.type == 'instructor':
                        Return redirect to registrar dashboard

        Else:
            Flash message 'login unsuccessful'
            Return render of login page

Def student_app():
    If user is already logged in:
        Return redirect to home page

    Student_app_form = StudentApplicationForm()
    If student_app_form was correctly filled out:
        Student_applicant = instantiation of
StudentApplicant(first_name, last_name, email, dob, gpa from
student_app_form)
        Add student_applicant to applicant table
        Commit changes to db
        Flash message 'application filed successfully. You will be
notified of our decision via email.'
```



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Return redirect to login page

Return render of student application page

```

Def instructor_app():
    If user is already logged in:
        Return redirect to home page

    instructor_app_form = InstructorApplicationForm()
    If instructor_app_form was correctly filled out:
        instructor_applicant = instantiation of
InstructorApplicant(first_name, last_name, email, dob, gpa from
instructor_app_form)
        Add instructor_applicant to applicant table
        Commit changes to db
        Flash message 'application filed successfully. You will be
notified of our decision via email.'
        Return redirect to login page

    Return render of instructor application page

Def statistics_page():
    Return render of statistics page

Def student_dash():
    Return render of student dashboard

Def instructor_dash():
    Return render of instructor dashboard

Def registrar_default_dash():
    change_form_period = ChangePeriodForm()
    If change_period_form is correctly filled out:
        Flash message 'Period changed successfully'
    Return render of registrar dashboard

Def registrar_class_setup():
    Class_setup_form = ClassSetUpForm()
    If class_setup_form was correctly filled out:

```

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```

        Flash message 'Course submitted successfully'
    Return render of class setup page

Def student_course_setup():
    student_class_enroll_form = StudentClassEnrollForm()
    If student_class_enroll_form is correctly filled out:
        Flash message 'Enrolled in course successfully'
    Return render of course enrollment page

Def view_courses():
    Return render of view all courses page

Def warned_stu_instructor():
    Warning_form = WarningForm()
    If warning_form was correctly filled out:
        Flash message 'warning created successfully'
    Return render of create warning page

Def registrar_grading_period():
    Return render of course grades page

Def student_graduation():
    Student_graduation_form = StudentGraduationForm()
    If Student_graduation_form was correctly filled out:
        Flash message 'Form submitted successfully! You'll be
notified with a decision'
    Return render of graduation application form page

Def registrar_view_applicants():
    Instruc_apps = query of all instructor applicants
    student_apps = query of all student applicants

    Return render of applicants page with applicants populated from
instructor_apps and student_apps lists

Def student_app_accept(index)
    Applicant = query student applicant by index

    Generated_username = generate_username(applicant.first_name,
applicant.last_name)

```

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```

        Generated_password = generate_password()
        Hashed_password =
generate_password_hash(generated_password)#from bcrypt library
        Student_user = instantiation of Student object

        Admission = python dictionary with key values {'response':
'accepted', 'username': generated_username, 'password':
generated_password}

        Email_content = generated_email_content(admission)
        Send_email(applicant.email, email_content)

        Add student_user to Student table
        Delete applicant from student_applicant table
        Commit changes to db

        Return redirect to registrar view applicants

Def instructor_app_accept(index)
    Applicant = query instructor applicant by index

    Generated_username = generate_username(applicant.first_name,
applicant.last_name)
    Generated_password = generate_password()
    Hashed_password =
generate_password_hash(generated_password)#from bcrypt library
    instructor_user = instantiation of Instructor object

    Admission = python dictionary with key values {'response':
'accepted', 'username': generated_username, 'password':
generated_password}

    Email_content = generated_email_content(admission)
    Send_email(applicant.email, email_content)

    Add instructor_user to Instructor table
    Delete applicant from instructor_applicant table
    Commit changes to db

```

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Return redirect to registrar view applicants

```

Def instruc_app_delete(index):
    applicant = query instructor applicant by index
    Delete applicant from instructor_applicant table
    Commit changes to db

Def student_app_delete(index):
    applicant = query student applicant by index
    Delete applicant from student_applicant table
    Commit changes to db

Def student_complaint():
    student_complaint_form = StudentComplaintForm()
    If student_complaint_form was correctly filled out:
        Flash message 'Complaint filed'
    Return render of student complaint page

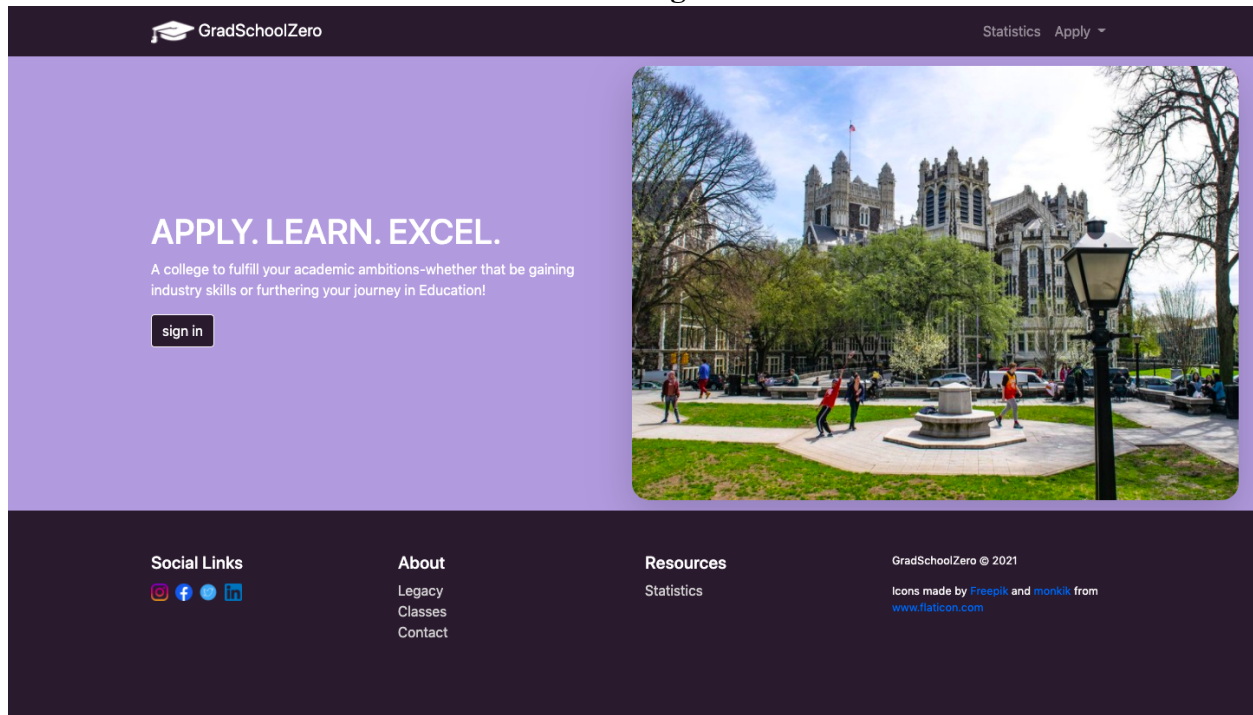
Def instructor_complaint():
    instructor_complaint_form = InstructorComplaintForm()
    If instructor_complaint_form was successfully filled out:
        Flash message 'Complaint filed'
    Return render of instructor complaint page

```

## System Screens

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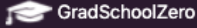
## Home Page:



## Sign-in Page:

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### Student Application Form:


Statistics Sign In Apply ▾

## Student Application

First Name

Last Name

Email

Date of Birth (mm-dd-yyyy)

GPA

Apply

**Social Links**






**About**  
Legacy  
Classes  
Contact

**Resources**  
Statistics

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### Instructor Application Form:

 GradSchoolZero
 Statistics Sign In Apply ▾

## Instructor Application

First Name

Last Name

Email

Discipline

Date of Birth (mm-dd-yyyy)

Apply

**Social Links**






**About**
[Legacy](#)
[Classes](#)
[Contact](#)


**Resources**
[Statistics](#)

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### Student Dashboard:

 GradSchoolZero
 Actions ▾ Statistics Sign Out




Student Dashboard



### Grades

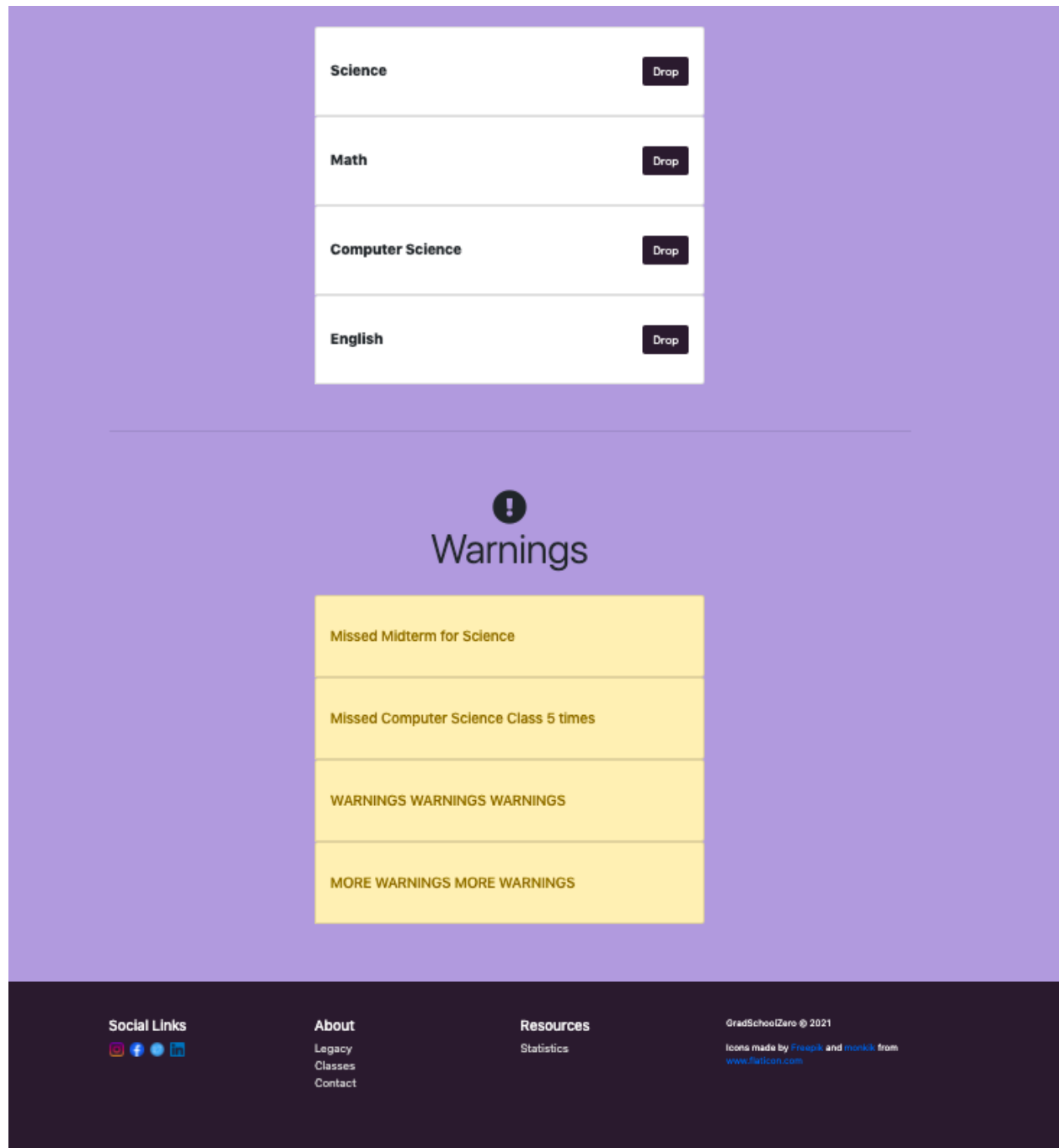
CLASS NAME	GRADE
Science	A
Math	A
Computer Science	A
English	A



### Current Courses



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### Instructor Dashboard:



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# CURRENT COURSES

Software Engineering

John Doe

Grade

Assign Grade

Alexander Mike

Grade

Assign Grade

Gladys Fernandez

Grade

Assign Grade

Kevin Straughter

Grade

Assign Grade

Intro to Machine Learning

Data Structures

Database Systems

Algorithms

Operating Systems

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## COURSE RANKING

HIGHEST RATED	RATE
Computer Science	99%
Discrete Math	98%
Algorithms	98%
Data Structures	97.5%

LOWEST RATED COURSES	RATE
Artificial Intelligence	96%
Database Systems	95%
Intro to Machine Learning	95%
Intro to Theoretical Computer Science	93.5%

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## TOP HONORS STUDENTS

STUDENT NAME	GPA	MAJOR	COURSE ENROLLED
John Doe	99.5%	COMPUTER SCIENCE	CSC 32200
Tamara Eisenberg	99.5%	COMPUTER SCIENCE	CSC 32200
Jacqueline Fernandez	99.4%	COMPUTER SCIENCE	CSC 32200



## WARNINGS

Post Project Details for Project II

Grade Midterm II

### Social Links



### About

Legacy  
Classes  
Contact

### Resources

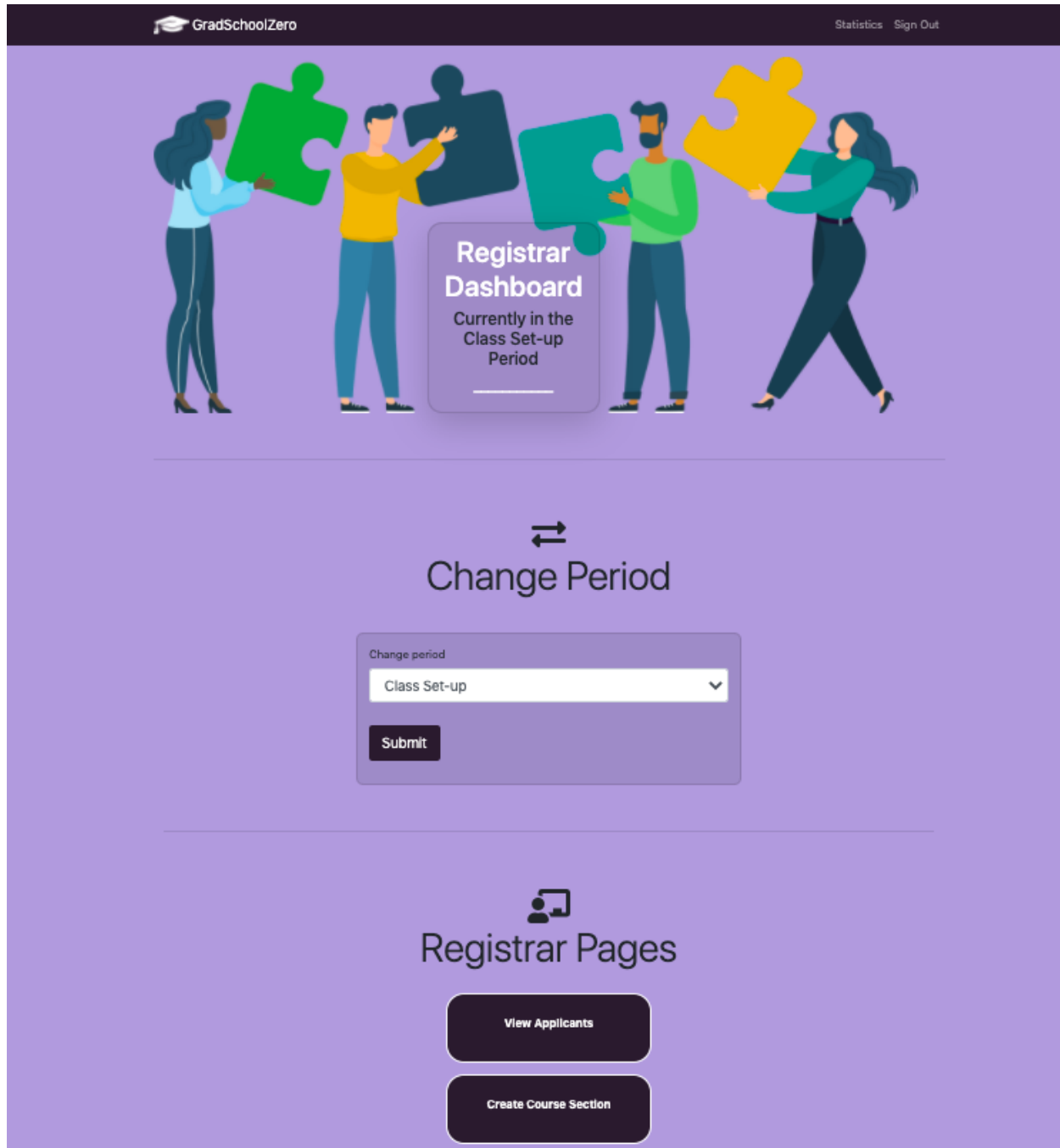
Statistics

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## Registrar Dashboard:




The image is a screenshot of the Registrar Dashboard interface. At the top, there is a dark purple header bar with the 'GradSchoolZero' logo on the left and 'Statistics Sign Out' on the right. The main content area has a light purple background. It features an illustration of four people holding large, colorful puzzle pieces (green, dark blue, teal, and yellow). Overlaid on this illustration is a semi-transparent box containing the text 'Registrar Dashboard' and 'Currently in the Class Set-up Period'. Below this, there is a section titled 'Change Period' with a double-headed arrow icon. This section contains a form with a label 'Change period', a dropdown menu currently showing 'Class Set-up', and a 'Submit' button. At the bottom, there is a section titled 'Registrar Pages' with a person and document icon. Below this title are two buttons: 'View Applicants' and 'Create Course Section'.

GradSchoolZero Statistics Sign Out

**Registrar Dashboard**  
Currently in the Class Set-up Period

↔  
**Change Period**

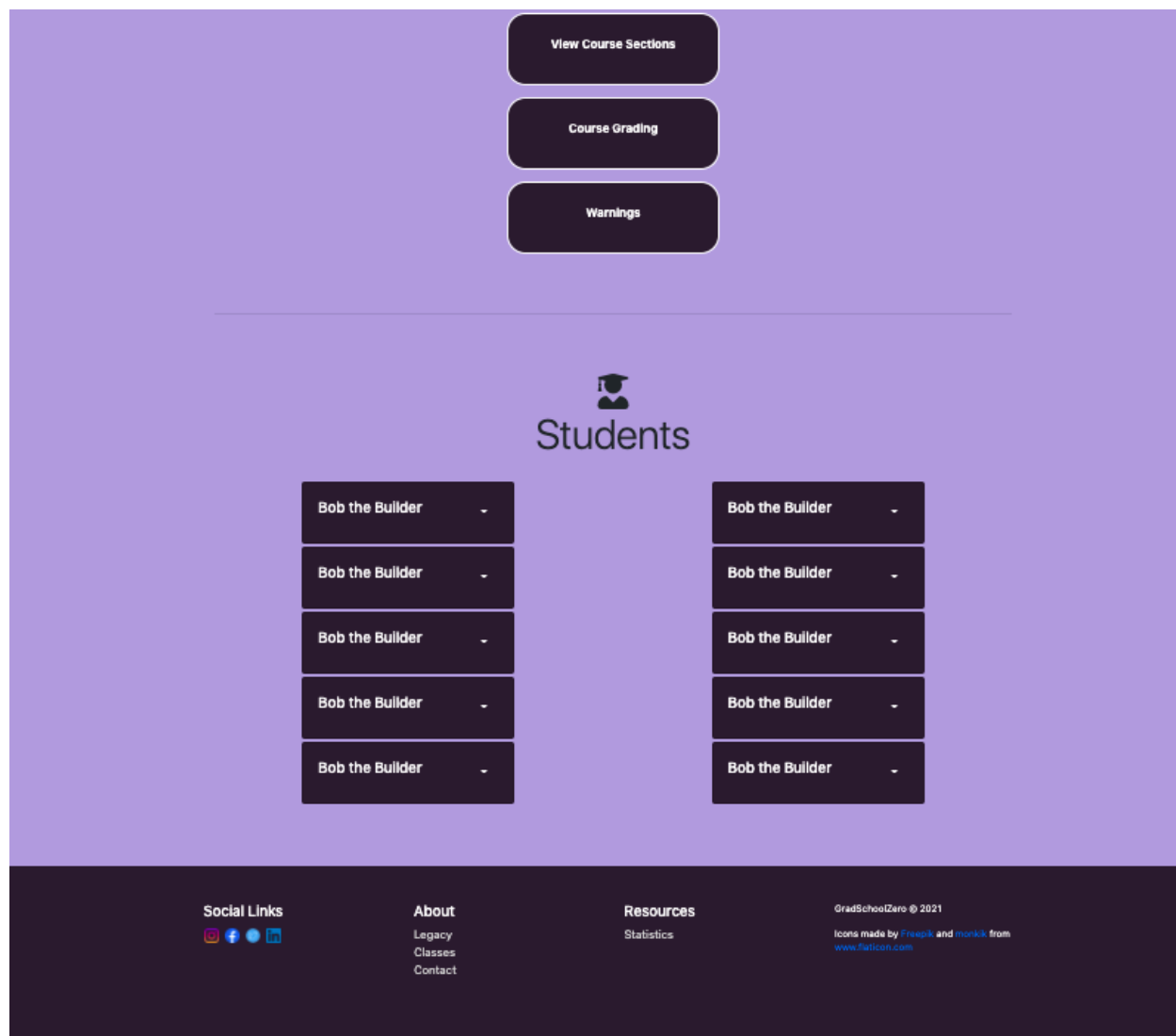
Change period  
Class Set-up ▼  
Submit

  
**Registrar Pages**

View Applicants

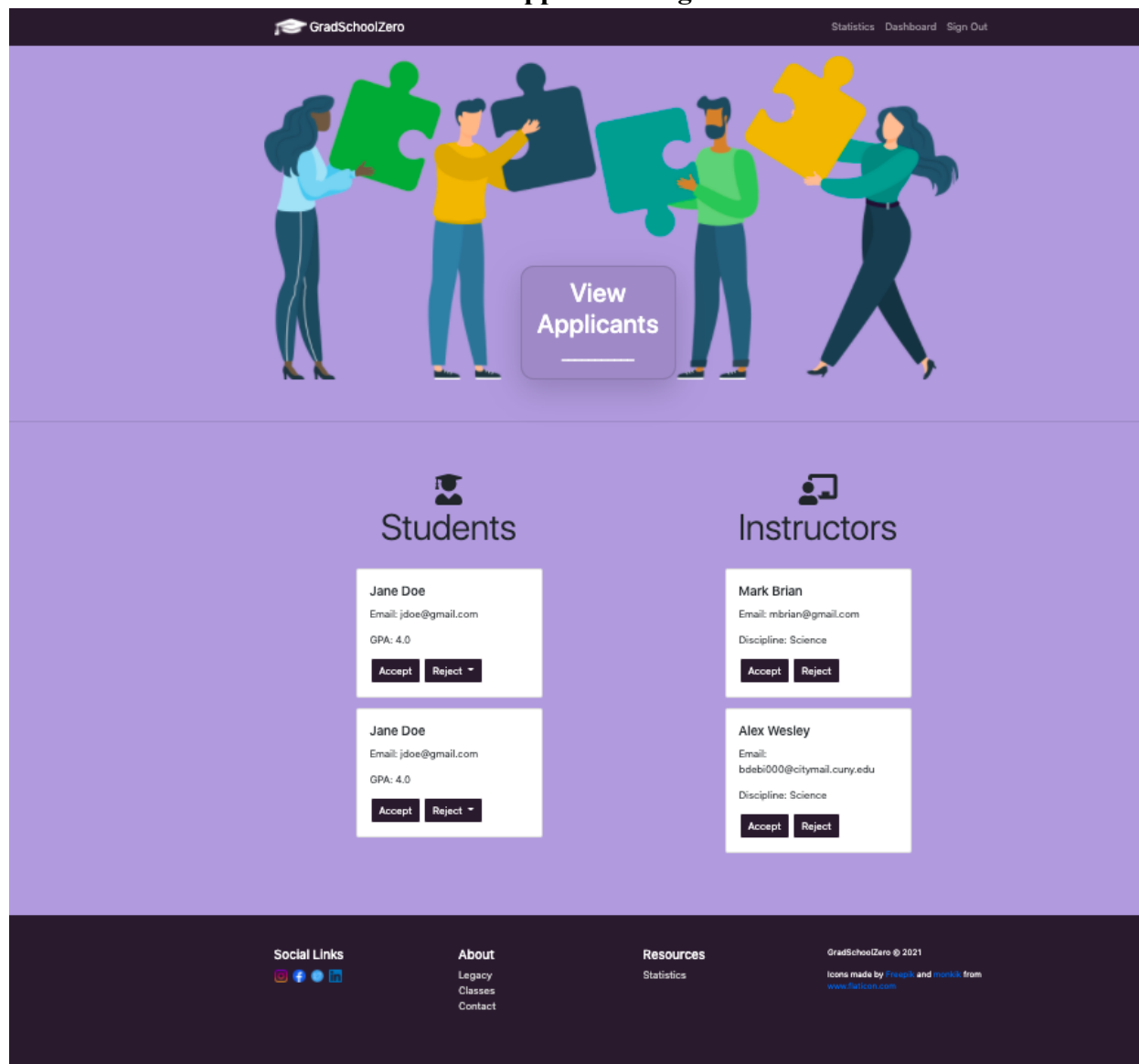
Create Course Section

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### View Applicants Page:






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## View Courses:

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## View Courses

Science: the search for the truth

Description: Science is amazing. It's really useful. You should take this class.  
 Registered Students: 5  
 Capacity: 20


Math: the universal language

Computer Science: Data Structures

Music: Music Theory

Computer Science: Algorithms

English: Introduction to Literary Studies



## Canceled Courses

Computer Science: Computer Graphics

Instructor: Bob the Builder

Science: the universal language

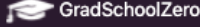
Instructor: Bob the Builder

English: The Natural Language

Instructor: Bob the Builder

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### Course Set-up page:


[Statistics](#)
[Dashboard](#)
[Sign Out](#)

## Create Classes

Course Name

Instructor Name

Class Size

Start Date (mm-dd-yyyy)

End Date (mm-dd-yyyy)

Start Time (Hours:Minutes)

Start Time (Hours:Minutes)

Submit Course

**Social Links**






**About**
[Legacy](#)
[Classes](#)
[Contact](#)


**Resources**
[Statistics](#)

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### Course Registration page:

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## Select Courses

Class Name  
Science

Instructor Name  
Bob Builder

Section Name  
Section A (11-12pm)

Submit

### Science

Section Code: A

Start Time: 2pm

End Time: 4pm


Instructor: Billy Billy


Enroll

[Social Links](#)
[About](#)
[Resources](#)
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### Warnings page:

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## Warnings

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### Submit Warning

Username

User Type

Student

Warning Text

Submit

### Canceled Courses

Computer Science: Computer Graphics

Instructor: Bob the Builder

Science: the universal language

Instructor: Bob the Builder

English: The Natural Language

Instructor: Bob the Builder

### Warned Students

Bobby Bob

Bobby Bob

Bobby Bob

Bobby Bob

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### Warnings page contd:

The warnings page features a light purple background. It is divided into two main columns: "Warned Instructors" and "Suspended Instructors". Each column contains three dark purple rounded rectangular buttons, each labeled "Bobby Bob". Below these columns is a dark purple footer bar. On the left, it has "Social Links" with icons for Instagram, Facebook, Twitter, and LinkedIn. In the center, it has "About" with links for "Legacy", "Classes", and "Contact". To the right of that is "Resources" with a link for "Statistics". On the far right, it displays "GradSchoolZero © 2021" and "Icons made by Freepik and monkik from www.flaticon.com".

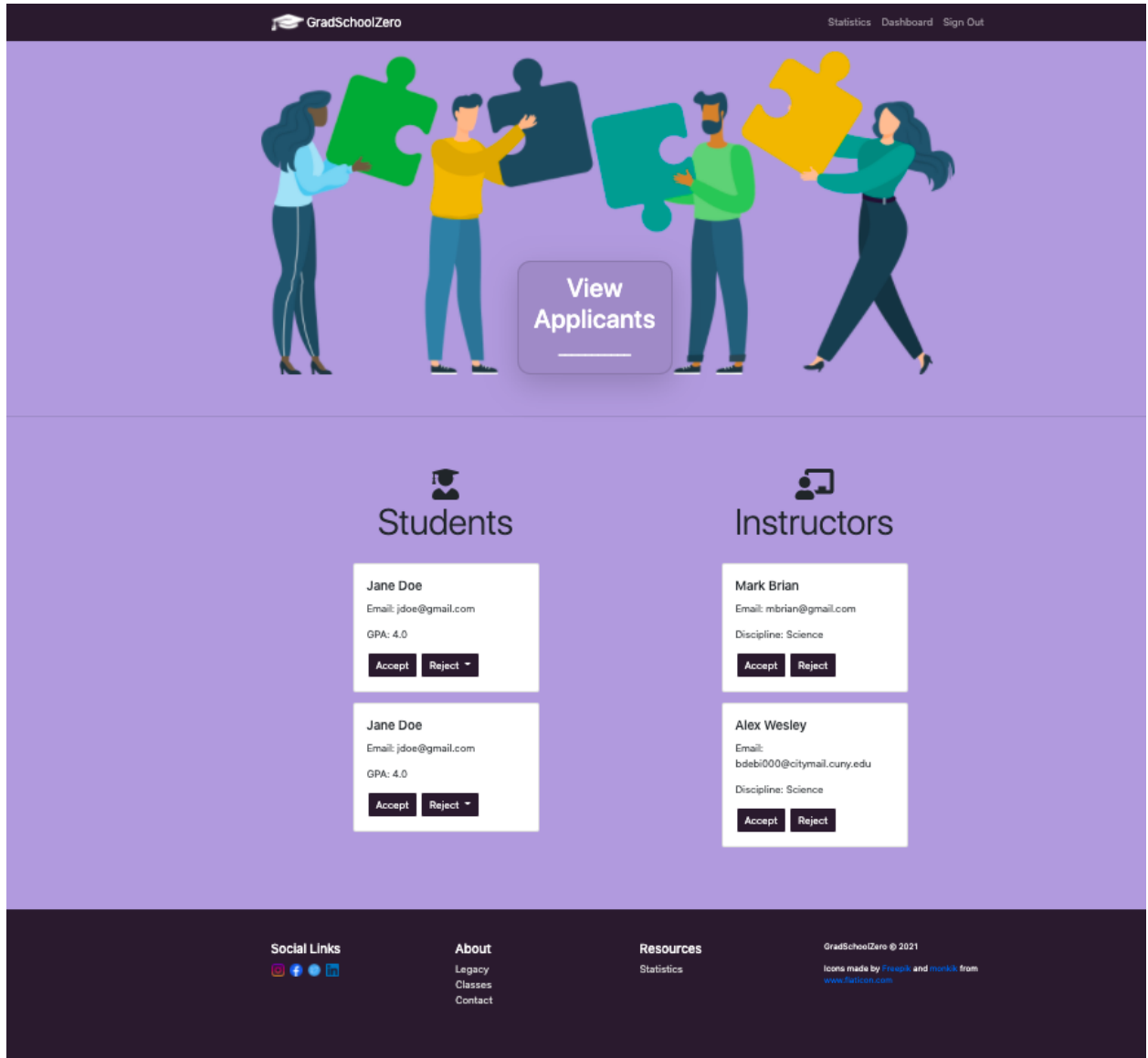
### Prototype of Functionality: Acceptance/Rejection of Applicants

1. Student/Instructor applicants fill out their respective application forms and submits

There are two application forms side-by-side. The "Student Application" form on the left has input fields for "First Name", "Last Name", "Email", "Date of Birth (mm-dd-yyyy)", and "GPA", with an "Apply" button at the bottom. The "Instructor Application" form on the right has input fields for "First Name", "Last Name", "Email", "Discipline", "Date of Birth (mm-dd-yyyy)", and an "Apply" button at the bottom. Both forms are set against a light purple background.

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2. Student/instructor applicants get added to StudentApplicant and InstructorApplicant tables in the databases respectively
3. The StudentApplicant and InstructorApplicant tables get queried and the applicants' information are displayed on the "View Applicants Page" which the registrar can access by clicking the "View Applicants" button on the registrar dashboard; **only** the registrar can view this page.



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- Registrar either accepts or rejects an applicant. If the registrar rejects a student, there is a form they must fill out to provide the student with the reason for rejection in the “View Applicants” page. The reason is sent to the student applicant via email and the applicant gets deleted from the StudentApplicant table. If the registrar rejects an instructor, no reason is required; the instructor applicant gets deleted from the InstructorApplicant table

The screenshot displays a purple background with two main sections: **Students** and **Instructors**. Each section contains applicant cards. The **Students** section shows two cards for Jane Doe. The top card has a 'Reject' button with a dropdown arrow, which is currently open, revealing a 'Rejection Reason' form with a text input field labeled 'Reason...' and a red 'Submit' button. The bottom card for Jane Doe is partially obscured. The **Instructors** section shows two cards: one for Mark Brian and one for Alex Wesley. Each card displays the applicant's name, email, and discipline, along with 'Accept' and 'Reject' buttons.

- If the registrar accepts a student applicant, the student applicant gets added to the Student table in the database and they are notified via email of their acceptance and their credentials to sign-in into the site (via the sign-in page). The student applicant's information gets deleted from the StudentApplicant table. The process is similar for accepted Instructor applicants except Instructor applicants get added to the Instructor table rather than the Student table and their information is deleted from the InstructorApplicant table
- Once the registrar has made a decision on an applicant and the applicant's information is deleted from their respective applicant tables, they are deleted from the “View Applicants” page (since the route function for the “View Applicants” page queries the applicant tables)

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## Memos

### Meeting 11/16/21

Changed data storage from JSON files to SQLAlchemy (Danny A.)  
Concerns rendering database tables to the website (Danny A.)

### Meeting 11/21/21

ER Diagram first pass (Julia B. + help from teammates)  
Use cases discussion (Julia B. + teammates)

### Meeting 11/23/21

Most UI done for complaint form  
Instructor dashboard in progress (minor changes)  
Concerns hooking database to drop-down for complaint form

### Meeting 11/25/21

Finalizing PETRI-NET diagram before submission  
Additional pushes to repository

## Git Repo and Other Supporting Information

[Miro Board | Functionality Outline](#)

[GitHub Repository](#)

[Wireframe Draft](#)

[Home Page Draft](#)