March 27th 2023

Lab Activity and Test 5

Features:

Add Courses (Bruce, Matthew, Wu)

• Students will be able to add courses to their enrollment.

Priority: MediumCost: 3-5 Days

Check Course List (Bruce, Matthew)

• Course associated information including course number, course title, course grades and term taken.

Priority: MediumCost: 3-5 days

Check Course Prerequisite (Bruce, Matthew, Dave)

• The prerequisites of a specific EECS courses are provided by the system.

Priority: MediumCost: 3-5 days

Academic Record Database (we changed the database name to course enrollment) (Bruce, Matthew) X

- Create a user academic database to store the academic records of the student's courses.
- Priority- MEDIUM

Cost: 3 days

Personal information Database (Bruce, Matthew) X

• Create a user database for managing the students' information including their login information, academic records, and student personal information.

Priority: HIGHCost: 5-7 days

Register user interface (new work) (Wu)

• Create a register user interface for students and admins to register to be a user of our system.

Priority: HIGHCost: 3 days

Login user interface (new work) (Wu)

 Create a login user interface for students and admins to login to access our system.

Priority: HIGHCost: 3 days

admin information database(Bruce)

 Create a admin database for managing the school members' information including their login information, academic records, and admin's personal information.

Priority: HIGHCost: 5-7 days

Allow academic advisors to edit course taken(Bruce, Matthew)

- add/drop course function provided for admin
- Priority:Meduim Cost: 2 days

EECS department are able to edit course taken(Bruce, Matthew)

Advisor can add students to the course waitlist queue

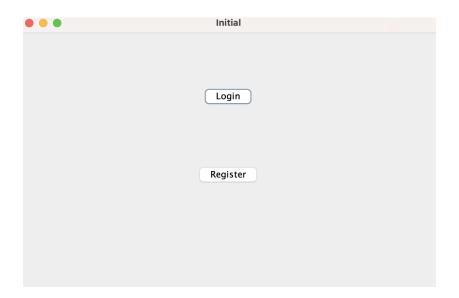
Priority: HIGH Cost: 3 days

Testing

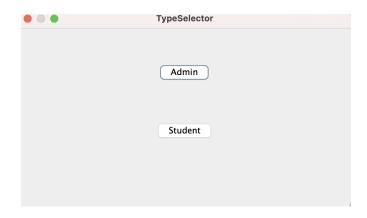
Check the Course List and Add Courses.

Register User setup

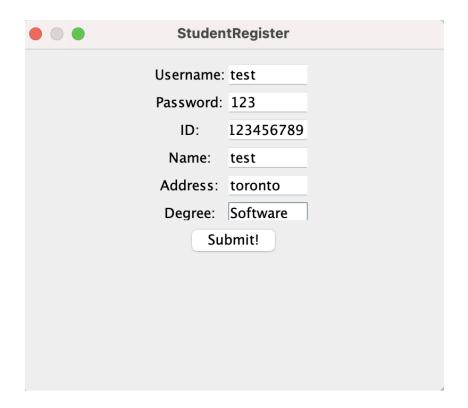
Click Register



Click Student



Enter Student details



Success window will pop up:



Go back to initial window and press login

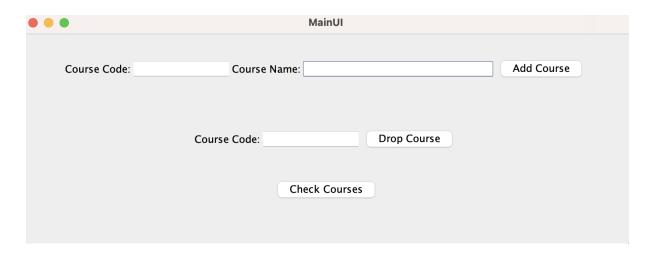


Enter Login details for the test user you just made and submit



Test Case 1 - Empty Course Enrollment (No added courses)

Press the "Check Courses" Button

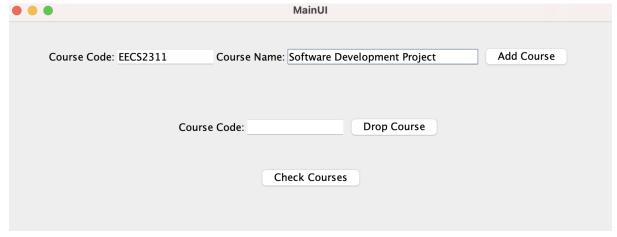


The result will be an empty list



Test Case 2 Adding a Course

Enter Course Code of "EECS2311" and Course Name of "Software Development Project" and press "Add Course"



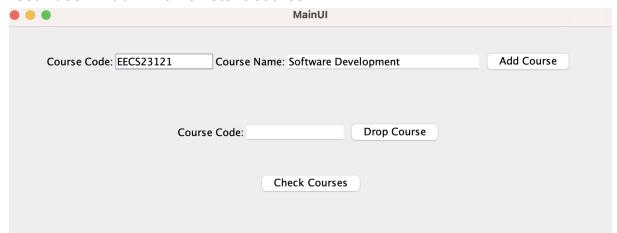
Can be see added to the course_enrollment table with test user student id

Test Case 3 Course Enrollment after adding a course

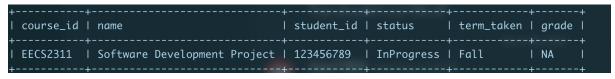
Press Check Courses and it shows a Enrollment popup of EECS2311 Course enrollment record

Enrollment
[[EECS2311, Software Development Project, 123456789, InProgress, Fall, NA]]

Test Case 4 Add A Non-existent course

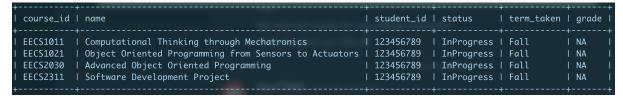


It is not added to the course enrollment table

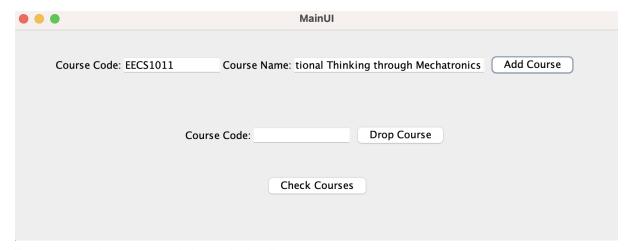


Test Case 5 Add Multiple Courses

Same steps as above for adding other courses and you get this result.



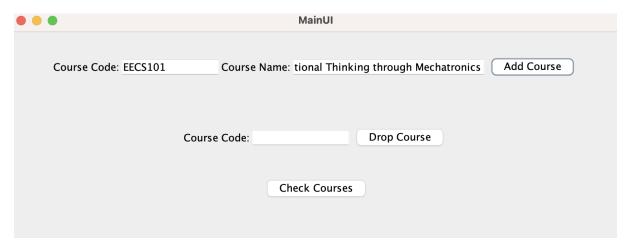
Test Case 6 Inputting Same Data Again



Entry doesn't occur and doesn't duplicate.

java.sql.SQLIntegrityConstraintViolationException: Duplicate entry 'EECS1011-123456789' for key 'course_enrollment.PRIMARY'

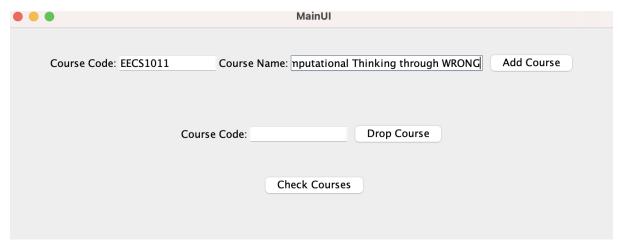
Test Case 7 Inputting Bad Data



Doesn't get added to table



Test Case 8 Inputting Bad Data for Course Name



Gets added with the wrong course name

+ course_id name +		l student_id	l status	l term_taken	grade l
EECS1011 Computational	Thinking through WR	ONG 123456789	InProgress	Fall i	NA I

Test Case 9 Multiple courses Check Courses display

After adding multiple course like before by inputting in the "Course Code" and "Course Name" field press "Check Courses"



Test Case 10 Adding multiple courses check display

Add multiple courses (3 or more) and click the course check button



Problem appears that the text goes outside of the window so it isn't able to be displayed properly.

Problem Reports Based on my Findings

Report #: 1

Report type: coding Can Reproduce: yes Severity: Medium

Problem summary: Can add a course without the proper name

Problem Description: Input the correct course code but you can change the name to

whatever you want and add the course.

Report #: 2

Report Type: coding/Design issue

Can Reproduce: yes

Severity: High

Problem summary: Text doesn't wrap when displaying course enrollments

Problem Description: Add 3 or more courses and then click the check courses button

Code Design Smells

I checked Dispensables

I found that our Enrollment class isn't really necessary considering we don't utilize the class and we just directly use our DB class to do enrollment operations.

Report #: 3

Report Type: Design issue

Severity: low

Problem summary: Enrollment class is not needed any longer. Problem Description: DB class is directly used for enrollments.