YuLookUp

Team Number 5

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Vision Statement

York University Look Up (YuLookUp) is a Java-based application used to facilitate course referencing and student record-keeping. It will be used primarily by students to easily find course details.

The primary function of the tool is to serve as an easy-to-navigate course lookup. Similar to the current York University Courses website, YuLookUp will allow users to find course descriptions based on department, year level and course codes.

The course lookup feature will be designed to match an interface everyone is extremely familiar with, the google search engine. Instead of bothering with figuring out the program's setup, one can simply just begin typing into a search bar to find what they're looking for, whether it being a course or the major.

The course lookup also features the ability to lookup courses based on a specific major and displays a visual overview of all the courses related to that major. With that visual display, students can also determine course prerequisites quickly by clicking on the course and having its prerequisites light up.

YuLookUp will also contain an important aspect of User Profiles allowing tailored results within the program. With a built-in GPA calculator YuLookUp will be able to calculate and store the GPA point scales, as well as provide the user with the ability to add more courses to update the GPA.

In the Iteration 1 prototype of the project, features mentioned above such as course lookup methods and a GPA calculator would be available for use. In future versions of the program, more tailored features such as yearly schedule builders that organise the courses the user has to take per year based on what they have taken so far, and an optimised platform to connect with Advisors.

YuLookUp will also help students to connect with advisors. The current solution uses Qless to book a zoom appointment with an advisor. As developers of this system, we want to reduce friction in the course enrollment process. Consequently, YuLookUp packages everything in one place
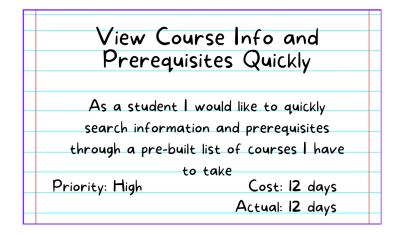
The program will not only be used by students, but by advisors as well. Which is why one of the program's vital features is the ability to export saved data the user has inputted, in order for an advisor to validate and help the students with more personal matters.

The use of this program would be a huge milestone for improving a student's or advisor's process during course enrollment. As during times such as the beginning or the end of the year when course enrolment is required, the ability to look up course information is vital. With the present course information site offered by the university, the amount of time wasted trying to navigate an ineffective interface and slow website hinders the ability for students to smoothly navigate through. Therefore our program is focused on improving the efficiency of course lookup.

The project's success will be measured through a user satisfaction survey. Given that the program is focused on decreasing the amount of time it takes to access course information, if the amount of time the students' take to look up courses has decreased then our program is succeeding. Finally, If the users prefer to utilise the program over the current basic option offered by the university then another successful milestone has been crossed.

Course Search

Big User Story: View Course Info and Prerequisites Quickly

View Course Info and Prerequisites Quickly

As a student I would like to quickly search information and prerequisites through a pre-built list of courses I have to take

Priority: High

Cost: 12 days
Actual: 12 days

Detailed User Stories

Search Up Courses Based On Code Or Title

Retrieve courses and course information through a search bar.

Priority: High

Cost: 6 days
Actual: 6 days

Find a Description Of a Course

View a detailed description of each course.

Priority: High

Cost: 6 days
Actual: 6 days

Developer Tasks

Big User Story: Filterable List

Filterable Lists

As a student, I'd like to be able to filter any search results based on factors including but not limited to faculty, semester offerings, and prerequisite checks.

Priority: Medium   Cost: 8 days

Detailed User Stories

Filter based on department

Filter search results based on department type of the course. Eg. only show "EECS" courses from a list

Priority: High   Cost: 2 days
                        Actual: 4 days

Filter based on credit size

Filter search results based on credit amount of a course. E.g. only show courses with credit amount "3.00"

Priority: High   Cost: 2 days
                        Actual: 4 days

Filter based on year level

Filter search results based on student year level. E.g only show courses "2XXX" or "3XXX" level courses

Priority: High   Cost: 2 days
                        Actual: 4 days

Big User Story: Majors List

Majors List

As a student, I'd like to be able to view a multi-column list of all the required courses in my program of study.

Priority: Medium   Cost: 5 days
                          Cost: 7 days

Detailed User Stories

Quickly Determine Course Prerequisites

Visually determine course prerequisites from a column-like structure of courses.

Priority: High   Cost: 2 days
                        Actual: 3 days

Course Overview of Major

Get a quick overview of the available courses based on major.

Priority: High   Cost: 3 days
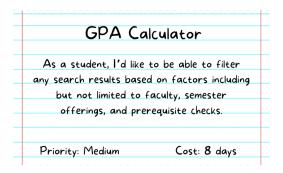   Actual: 4 days

Course Planning

Big User Story: Yearly Schedule Planner

Yearly Schedule Planner

As a student I would like to have a custom outline of the future courses I have to take to graduate after inputting the courses i already took

Priority: High   Cost: 12 days

Detailed User Stories

Display a 4 year schedule of leftover courses

As a student, I'd like to see a 4 column table, with each column referring to a year of study, listing the remaining courses I have to take

Priority: High   Cost: 2 days
                        Actual: 2 days

Display a customized yearly schedule of leftover courses

As a student, I'd like to see a customized yearly schedule listing the remaining courses I can take every year, not including what I've already taken.

Priority: High   Cost: 2 days
                        Actual: 2 days

User Profiles

Big User Story: GPA Calculator

GPA Calculator

As a student, I'd like to be able to filter any search results based on factors including but not limited to faculty, semester offerings, and prerequisite checks.

Priority: Medium   Cost: 8 days

Detailed User Stories

Display Total GPA

I want to be able to provide the courses that I have taken and have my total gpa Calculated along with total credits

Priority: High   Cost: 4 days
                        Actual: 4 days

Display Major specific GPA

When I have provided the course that I have taken I want the Gpa of courses specific to my Major to also be shown.

Priority: High   Cost: 2 days

Display Session specific GPA

When I have provided my courses taken I wanted an additional field that corresponds to my Gpa in every academic session

Priority: Low   Cost: 2 days

Big User Story: Academic Standing

Academic standing

As a student, I'd like to have my personal profile, in order to validate my schedules and other information with an advisor, who will use the software to also view the exported profile

Priority: Medium   Cost: 4 days

Detailed User Stories

Add courses taken

As a student, I want to add the courses I have taken along with the mark I got.

Priority: High   Cost: 1 day
                        Actual: 2 days

See the list of courses taken

As a student, I want to see the list of courses I have taken so far.

Priority: High   Cost: 1 day
                        Actual: 2 days

See the number of credits completed

As a student, I want to see the total number of credits completed based on the courses taken.

Priority: Low   Cost: 1 day
                       Actual: 1 day

Big User Story: Exportable Profiles

Exportable Profile

As a student , I'd like to export my profile details, in order to validate my schedules and other information with an advisor, who will use the software to also view the exported profile

Priority: Low   Cost: 2 days

Detailed User Stories

Export a profile as a JSON file

As a student , I'd like to export my profile details and store it locally as a JSON file

Priority: Low   Cost: 1 days

Import a profile in the form of JSON

As a student , I'd like to import the JSON file containing my profile details and be able to start where I left off the last time

Priority: Low   Cost: 1 days

Developer Tasks of This Iteration 2

Database Implementation: GPA Calculator

- Developer task 1: implement the creation of a mysql Database and database table
- Developer task 2: implement methods for manipulating data within database i.e insert, delete, update
- Developer task 3: populate database with courses from York University website

Big User Story: Filterable Lists

- Developer Task 1: Code the function for filtering results out of an array list based on department
- Developer Task 2: Add a department getter for Course class
- Developer Task 3: Implement the GUI for the filtering department
- Developer Task 4: Code the function for filtering results out of an array list based on credit size
- Developer Task 5: Add a credit size getter for Course class
- Developer Task 6: Implement the GUI for the filtering credit size
- Developer Task 7: Code the function for filtering results out of an array list based on year level
- Developer Task 8: Add a year level getter for Course class
- Developer Task 9: Implement the GUI for the filtering year level

Big User Story: Yearly Schedule Builder

- Code the function to return a list of courses based on an inputted major
    - Subtract the courses already taken from this list
- Create a function to filter the list into 4 sublists based on course level (1000,2000...)
    - Create 4 new lists and add based on beginning character of course code
- Create a function to generate personalized yearly schedules based on what courses have already been taken.
    - Add each year of courses to a list and remove the taken courses from that list

Big User Story: Exportable Profiles

- Developer Task 1: Create a GUI outline for the user profile with different sections (e.g. courses, gpa, credits)
- Developer Task 2: Implement code to search and add the courses to a list to a list of taken courses (must only be courses offered by york)
- Developer Task 3: Create a GUI table with added courses
- Developer Task 4: Allow to edit added courses (delete, change mark)

- Developer Task 5: Export all of the user info in a text document (name, id, cgpa, credits, courses)

Changes in Iteration 2

New Features

- Added the ability to filter course search results (Big User Story: Filterable Lists)
- Added the schedule builder (Big User Story: Yearly Schedule Planner)
- Added a default user profile (Big User Story: Academic Standing)
- Added a local mySQL database storing course data (Database Integration)

Improvements

- Added 2 more majors to the Majors List View feature (Big User Story: Majors List)
- Improved the UI of GPA calculator feature (Big User Story: GPA Calculator)
- Improved the ability to add multiple courses to calculate the GPA (Big User Story: GPA Calculator)

Big User Story Changes

- Removed "Semester Planner" and "Connecting with an Advisor" big user stories due to time constraints and low priority (Details in the log)
- Modified detail user stories of "Filterable Lists" Big User Story
- Modified detail user stories of "Exportable Profiles" Big User Story
- Adjusted expected/actual costs of certain stories

Customer meeting's summary video

Link to summary video:

https://youtu.be/azjRKXufjVE

Link to Github:

https://github.com/walido2001/EECS2311Group5