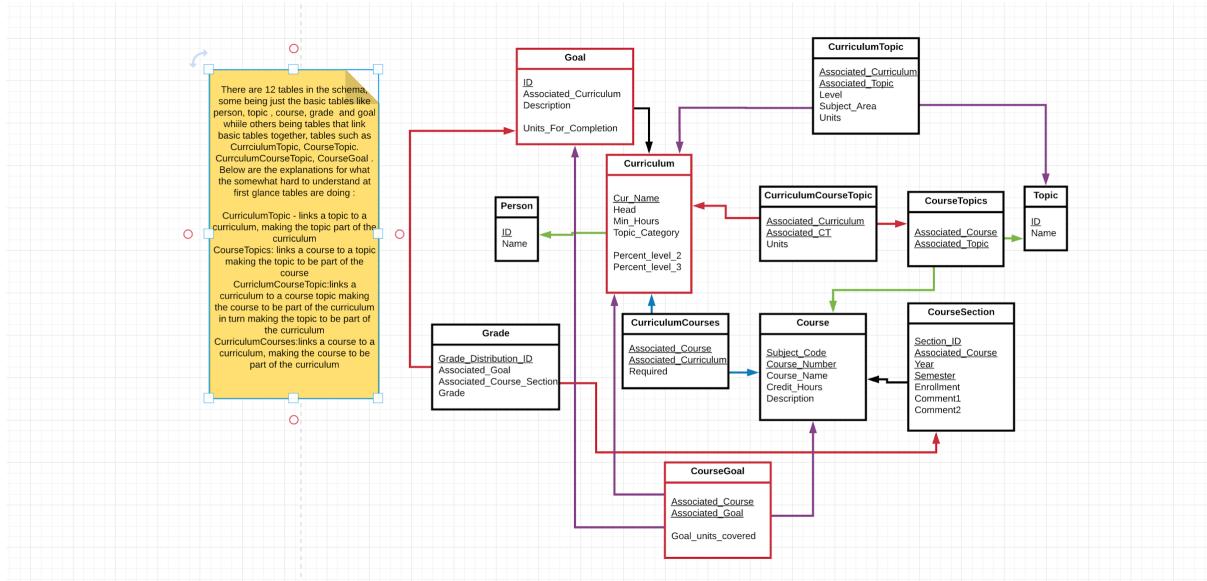


Ryland Beaver

Yufan Xu

Chinagorom Mbaraonye



Goal Table

ID(Primary Key)	Goal id
Associated_Curriculum	Curriculum to which the goal belongs to
Description	Description of goal
Units_For_completion	Units needed for completion of goal

Person Table

ID(Primary Key)	Person id
Name	Name of person

Grade table

Grade_Distribution_ID(Primary Key)	Id of the grade distribution
Associated_Goal	Goal associated with the given grade
Associated_Course_Section	Course section associated with the given grade
Grade	Actual grade

CurriculumTopic Table, Primary Key(Associated_Curriculum, Associated_Topic)

Associated_Curriculum	Curriculum to which given topic belongs in
Associated_Topic	Given topic

Level	Topic level (1-3)
Subject Area	Subject area covered by topic in curriculum
Units	Number of units covered by topic in curriculum

Curriculum Table

Cur_Name(Primary key)	Name of curriculum
Head	Head of curriculum
Topic category	Coverage of topics in curriculum
Min_Hours	Minimum number of hours required to complete curriculum
Percent_level_2	Percentage of level 2 topics that need to be covered
Percent_level_3	Percentage of level 3 topics that need to be covered

CurriculumCourses Table, Primary Key: (Associated_Course, Associated_Curriculum)

Associated_Course	The given course
Associated_Curriculum	Curriculum to which the course belongs to in this situation
Required	If the course is required or not in the curriculum

Course Table, Primary Key (Subject_Code, Course_Number)

Subject_Code	Course code, example: CSI
Course_Number	Number of the course, example : 3335
Course_Name	Name of the course
Credit_Hours	Course credit hours
Description	Course description

CurriculumCourseTopic, Primary Key(Associated_Curriculum, Associated_CT)

Associated_Curriculum	Curriculum that has the given course topic
Associated_CT	A combination of course and topic
Units	Units required for the course topic in the given curriculum

Topic

ID(Primary Key)	Topic id
Name	Name of topic

CourseTopics Table, Primary key : (Associated_Course, Associated_Topic)

Associated_Topic	Topic in the course
Associated_Course	Course to which the topic belongs in

CourseSection Table, Primary Key : (Section_ID, Associated_Course, Year, Semester)

Section_ID	Id of the course section
Associated_Course	Course to which the section is in
Year	Year the exact section happened
Semester	Semester the exact section happened
Enrollment	Number of students
Comment1	Comment about section
Comment2	Comment about section

CourseGoal Table, Primary Key : (Associated_Course, Associated_Goal)

Associated_Course	Course that fits the goal
Associated_Goal	Goal being completed
Goal_units_Covered	Units covered by the course and goal

Developers Manual

To use our application, you will need to be using python 3.7 specifically and django 2.2.

Steps in installation and getting everything working :

1. Create the database “uvc”in your local host.
2. Clone the remote repo <https://github.com/Stefan28BU/UniversityCurriculum.git>
3. Go to local repository, open “database_site” as Django project using PyCharm
4. Go to subdirectory “database_site/database_site/”
5. Navigate to settings.py and ensure the “DATABASE = {}” settings is suitable for you
6. Run “python manage.py migrate”
7. Followed by “python manage.py makemigrations Curriculum”
8. Then run “python manage.py migrate” again
9. From step 6 - 8, if there is an error message shown, do the following steps:
 - 9.1: Open your MySQL shell, run command “drop database uvc;”
 - 9.2: Then, immediately run “create database uvc;”
 - 9.3: In PyCharm, under “database_site/Curriculum/”, delete folder “migrations”
 - 9.4: Go to “Curriculum/views.py”, comment all out except from line 1 - 14
 - 9.5: Go to “Curriculum/urls.py”, comment out line 7 - 38
 - 9.6: Go to “Curriculum/forms.py”, comment all out
 - 9.7: Run step 6 - 8 again, then undo all comments
10. Then in the current directory, open terminal, run “python manage.py runserver”
11. Then open “<http://127.0.0.1:8000/Curriculum/>” in your browser

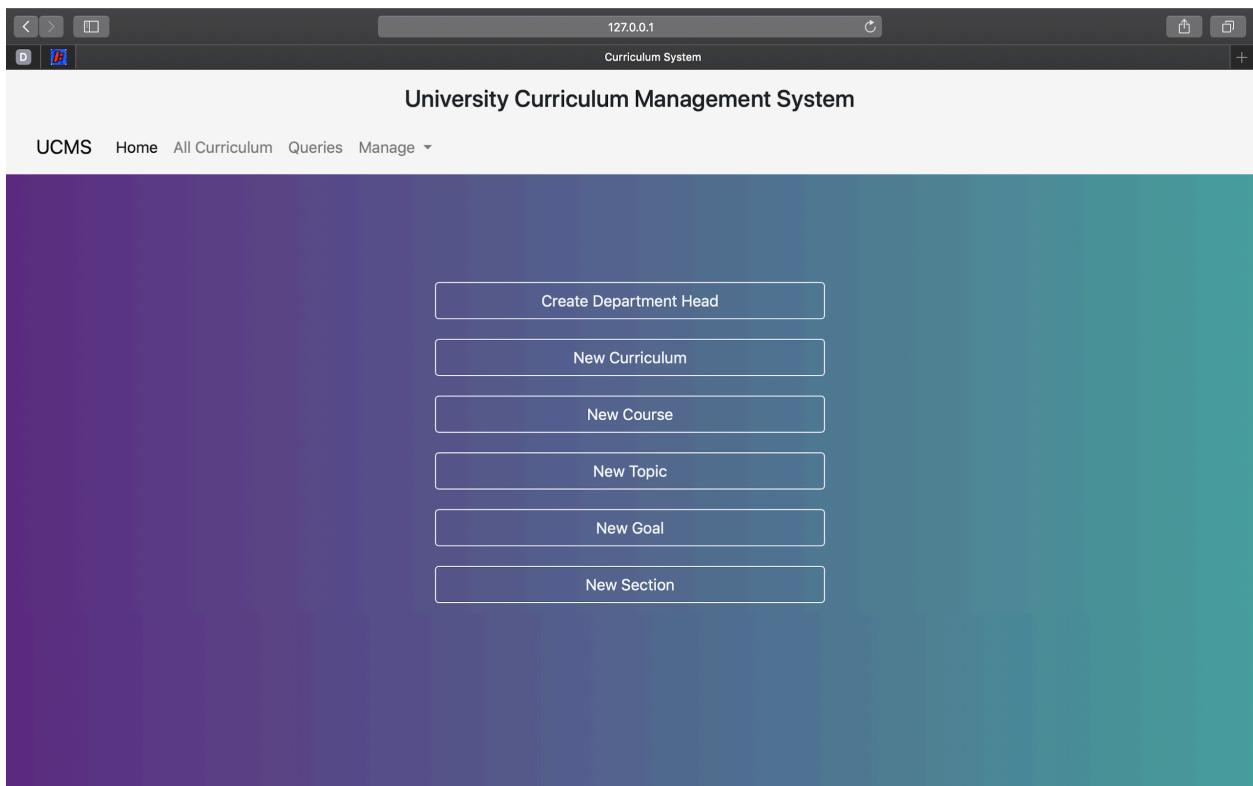
We tried our best to decouple different aspects of the project to make it easy for any person to come on board to work on it as well. All of the queries are in getInfo.py, models are in models.py and so on.

User's Manual:

With our sleek UI, our users can navigate around easily to use our features, below are some of the features user's can use in the application:

Home Page

This is the home page, has navigations to all the features of the system



Mange Option

This gives you the ability to add and edit different information in the system

The screenshot shows a web browser window with the URL `127.0.0.1` and the title `Curriculum System`. The main header reads `University Curriculum Management System`. Below the header, there is a navigation bar with links: `UCMS`, `Home`, `All Curriculum`, `Queries`, and `Manage ▾`. A dropdown menu is open under the `Manage` link, listing the following options:

- Head Information
- Curriculum
- Course
- Section
- Goal
- Topic
- Grade
- Home** (highlighted in white)

Below this list, there is a vertical stack of six rectangular buttons, each containing a label:

- Create Department Head
- New Curriculum
- New Course
- New Topic
- New Goal
- New Section

Queries:

With our system, the user has 5 different options for his/her queries and for some of the queries, the user can be more specific on the information they want, be it range of semesters or range of course number.

The screenshot shows a web-based application window titled "Edit Course" at the top. Below the title bar, there are standard browser controls (back, forward, search, etc.) and a URL field showing "127.0.0.1".

The main content area contains two lists:

- Courses:**
 - Data Communications
 - Database Design & Applications
 - Discrete Structures
 - Intro to Computer Science 1
 - Intro to Algorithms
 - Intro to Operating Systems
 - Data Structures
 - Computer Architecture
 - Intro to System Programming
 - Intro to Computer Science 2
 - Linear Algebra
- Topics:**
 - SQL
 - C++
 - NPC
 - Java semaphore
 - Success.

Below these lists, the text "Query One" is centered. Underneath "Query One", the text "Select a Curriculum:" is followed by a dropdown menu containing the option "Computer Science".

At the bottom right of the form, there is a button labeled "Confirm".

University Curriculum Management System

UCMS Home All Curriculum Queries Manage ▾

Courses:

- Intro to Computer Science 1 (CSI 1430), Credit Hours: 4 , Description: 1

Curriculum:

- Computer Science
- Success.

Query Two

Select a Course:

CSI 1430 (Intro to Computer Science 1)

Confirm

127.0.0.1 Edit Course

F: 0 students
I: 0 students
W: 0 students

With range: FA 2019 , Section ID: 3

- A+: 0 students
- A: 0 students
- A-: 0 students
- B+: 0 students
- B: 0 students
- B-: 0 students
- C+: 0 students
- C: 0 students
- C-: 0 students
- D+: 0 students
- D: 0 students
- D-: 0 students
- F: 0 students
- I: 0 students
- W: 0 students

Success.

Query Three

Select a Course:

CSI 1430 (Intro to Computer Science 1)

Select a Curriculum:

Computer Science

Grade Distribution for Curriculum:

- Computer Architecture (CSI 3439), Section: SP 2019 , Section ID: 15
- Database Design & Applications (CSI 3335), Section: SP 2019 , Section ID: 9
- Intro to Algorithms (CSI 3344), Section: SP 2019 , Section ID: 12
- Data Structures (CSI 3334), Section: SP 2019 , Section ID: 7
- Data Structures (CSI 3334), Section: SP 2019 , Section ID: 8

- A+: 0
- A: 0
- A-: 0
- B+: 0
- B: 0
- B-: 0
- C+: 0
- C: 0
- C-: 0
- D+: 0
- D: 0
- D-: 0
- F: 0
- I: 0
- W: 0
- Success.

Query Four

Select a Curriculum:

Computer Science

From:

127.0.0.1 Edit Course

- Topics Covered by Required Courses:
- Other Topics:
- Valid Goals
- Invalid Goals
- Lifetime Fitness
 - Head: Yufan Xuaa
 - Goal Valid: False
 - Topic Category: Exclusive
 - Courses
 - Required: 1
 - Optional: 0
 - Topics Covered by Required Courses:
 - Other Topics:
 - Valid Goals
 - Invalid Goals
 - This is a goal for LF
- Chemistry
 - Head: Yufan Xuaa
 - Goal Valid: False
 - Topic Category: Exclusive
 - Courses
 - Required: 0
 - Optional: 0
 - Topics Covered by Required Courses:
 - Other Topics:
 - Valid Goals
 - Invalid Goals
 - This is a goal for CHE

Query Five