Curriculum User's Manual

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Introduction

What is the *Curriculum* Database Application?

The *Curriculum* Database Application is a program that enables users to easily manipulate and store data within the *Curriculum* Database.

Features

- Graphical User Interface (GUI)
- Enter information into the database
- Edit/Update information stored in the database
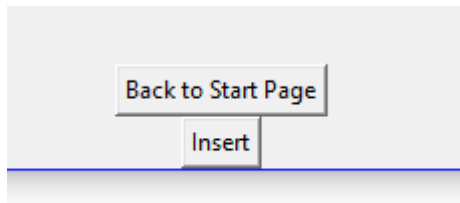- View information stored in the database

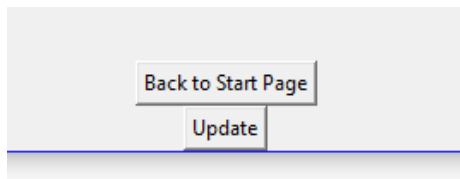# How To Use

User Actions

- Start Page
    - From here you can access a multitude of functions. **See Figure 1.1**

Launch pages that enable:

- Inserting
    - Enter information into the database.

- Editing/Updating
    - Modify and/or update information stored in the database.

- Searching/Viewing
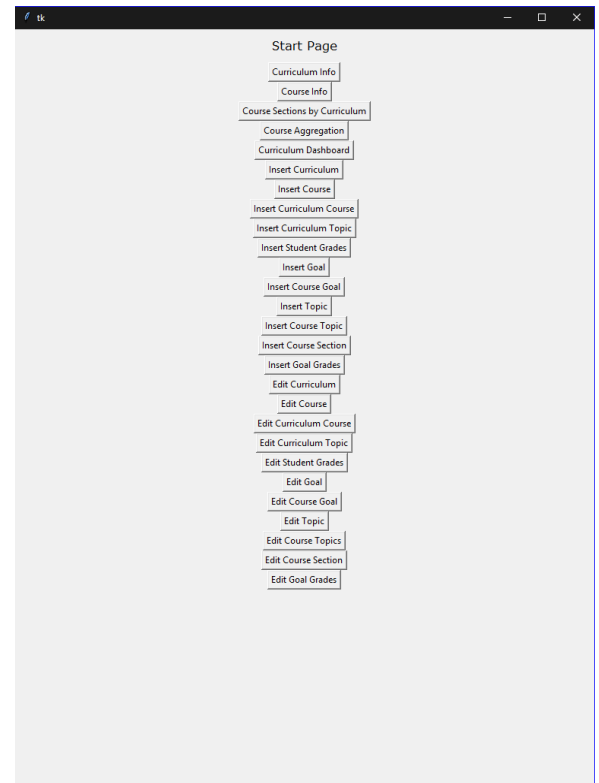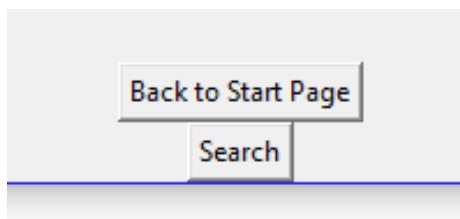   - Search for and view information stored in the database.

Credits

Curriculum Database Schema

- **Curriculum**: Stores the information about the curriculum
    1. **name**: Stores the name of the curriculum (linked with curriculumName in CurriculumTopics and curriculum in Goal)
    2. **headID**: Stores the unique id of the head person for the curriculum
    3. **headName**: Stores the name of the head person for the curriculum
    4. **totCredits**: Stores the total credits of the curriculum
    5. **maxUnits**: Stores the maximum units of the curriculum
    6. **coverage**: Stores the coverage of the curriculum
    7. **numGoals**: Stores the number of goals the curriculum has
- **CurriculumTopics**: Stores the link between a curriculum and its topics
    1. **curriculumName**: Stores the name of the curriculum (linked with name in Curriculum and curriculumName in CourseTopics)
    2. **topicID**: Stores the topicID linked with the curriculum
    3. **level**: Stores the level that the topic is at/covers
    4. **subjectArea**: Stores the subject area the topic covers
    5. **units**: Stores the units the topic has
- **CourseTopics**: Stores the link between a course and its topics
    1. **courseName**: Stores the course name to link with (linked with name in Course)
    2. **curriculumName**: Stores the curriculum name the topic(s) are a part of (linked with curriculumName in CurriculumTopics)
    3. **topicID**: Stores the topic id of the topic course is linked with (linked with topicID in CurriculumTopics)
    4. **units**: Stores the topic's units
- **Topics**: Stores the topics
    1. **id**: Stores the unique id of the topic (linked with topicID in CurriculumTopics and CourseTopics)
    2. **name**: Stores the name of the topic
- **Goal**: Stores the goals
    1. **id**: Stores the unique id of the goal (linked with goalID in CourseGoals and GoalGrades)
    2. **description**: Stores a description of the goal
    3. **curriculum**: Stores the name of the curriculum the topic is under (linked with name in Curriculum)
- **Course**: Stores the courses
    1. **name**: Stores the unique name of the course (linked with courseName in CourseTopics, CurriculumCourses, CourseGoals, CourseSections, and GoalGrades)
    2. **subCode**: Stores the subject code of the course
    3. **courseNumber**: Stores the course number of the course
    4. **creditHours**: Stores the credit hour amount of the course
    5. **description**: Stores the description of the course
- **CourseGoals**: Stores the link between a course and its goals
    1. **curriculumName**: Stores the name of the curriculum the course/goals are under (linked with curriculumName in CurriculumCourses)
    2. **courseName**: Stores the name of the course the goals are linked to (linked with name in Course)
    3. **goalID**: Stores the id of the goal being linked to the course (linked with id in Goal)

Credits

Curriculum Database Schema

- **CurriculumCourses**: Stores the link between a curriculum and its courses
    1. **curriculumName**: Stores the curriculum name the courses are a part of (linked with curriculumName in CourseGoals)
    2. **courseName**: Stores the course the curriculum has (linked with name in Course and courseName in CourseGoals)
    3. **optional**: Stores if the course is optional in the curriculum
- **StudentGrades**: Stores the grade distribution for a particular section of a course
    1. **semester**: Stores the semester of the section (linked with semester in CourseSections)
    2. **year**: Stores the year of the section of the course (linked with year in CourseSections)
    3. **sectionID**: Stores the section id of the section (linked with sectionID in CourseSections)
    4. **courseName**: Stores the name of the course (linked with courseName in CourseSections)
    5. **numAP**: Stores the number of A+ in the class
    6. **numA**: Stores the number of A in the class
    7. **numAM**: Stores the number of A- in the class
    8. **numBP**: Stores the number of B+ in the class
    9. **numB**: Stores the number of B in the class
    10. **numBM**: Stores the number of B- in the class
    11. **numCP**: Stores the number of C+ in the class
    12. **numC**: Stores the number of C in the class
    13. **numCM**: Stores the number of C- in the class
    14. **numDP**: Stores the number of D+ in the class
    15. **numD**: Stores the number of D in the class
    16. **numDM**: Stores the number of D- in the class
    17. **numF**: Stores the number of F in the class
    18. **numW**: Stores the number of W in the class
    19. **numI**: Stores the number of I in the class
- **CourseSections**: Stores the link between a course and its sections
    1. **semester**: Stores the semester of the section (linked with semester in StudentGrades and GoalGrades)
    2. **year**: Stores the year of the section of the course (linked with year in StudentGrades and GoalGrades)
    3. **sectionID**: Stores the section id of the section (linked with sectionID in StudentGrades and GoalGrades)
    4. **courseName**: Stores the name of the course (linked with courseName in StudentGrades and GoalGrades, and name in Course)
    5. **enrolled**: Stores the number of enrolled students
    6. **comment1**: Stores the first comment about the section
    7. **comment2**: Stores the second comment about the section
- **GoalGrades**: Stores the link between a goal and the section
    1. **semester**: Stores the semester of the section (linked with semester in CourseSections)
    2. **year**: Stores the year of the section of the course (linked with year in CourseSections)
    3. **sectionID**: Stores the section id of the section (linked with sectionID in CourseSections)
    4. **courseName**: Stores the name of the course (linked with courseName in CourseSections)
    5. **goalID**: Stores the goal id of the goal (linked with id in Goal)
    6. **goalGrade**: The grade of the goal associated with the section

Credits

Our Development Team

Weston Straw
Weston_Straw@Baylor.edu

Cameron Cole
Cameron_Cole@Baylor.edu

Mark DeJarnett
Mark_DeJarnett1@Baylor.edu