



Student Success Planner

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Problem

Students have many things to keep track of through the course of a semester – their schedule, due dates, notes, etc.

While sites like Google contain all of the tools a student could need, they are generally across multiple platforms, and are not optimized specifically for the student.

This can lead to students needing to run and keep track of several tabs, some of which may have a lot of resource overhead in both memory and processing power.

There is a lack of focused desktop apps which fill all of the requirements of a student without these issues.



Solution – Student Success Planner

A custom piece of software could circumvent many of these issues, providing a focused platform to support students in their studies.

The software must be a desktop application, available completely offline, with local storage only.

The software should require little space, be unintrusive, and act simply as a support system for the student.

Installation should be easy, with a “drop-in” mentality that doesn’t require complex databases of any kind.



Tools Used

Base Language — Python

Library — tkinter

No databasing, files are written to directory where software is installed.

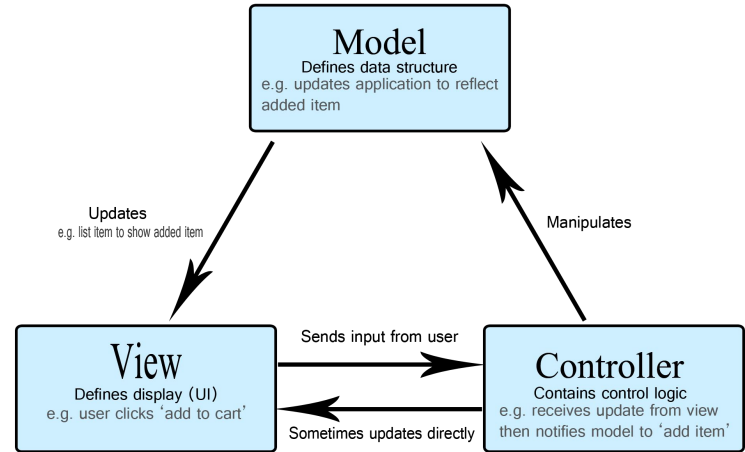
Architecture

The Student Success Planner uses a Model-View-Controller architecture.

View — tkinter frame elements displaying information to the user.

Controller — tkinter widgets control IO methods to handle changing data.

Model — tkinter widgets are controlled to display new information after successful saving.





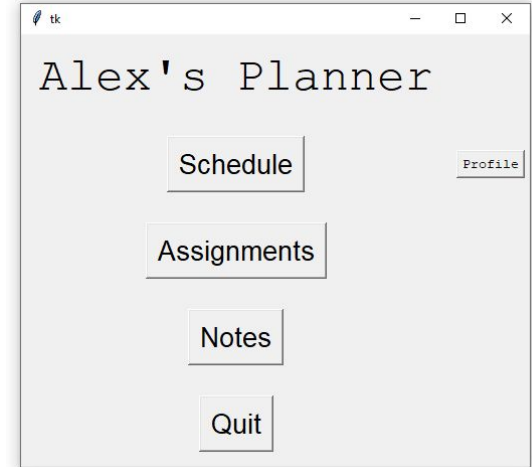
Features

Profile – stores user information.

Schedule – create and store current courses.

Assignments – create and store assignments.

Notepad – create referenced notes, and store them in an automatically generated directory by course.

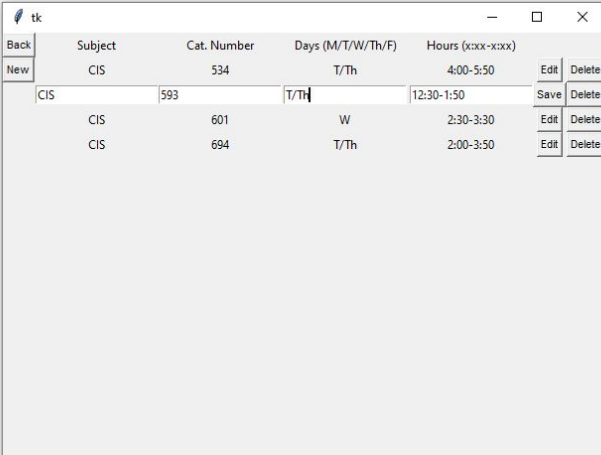


Features – Schedule

The Schedule tab uses a tabular storage system to store information about students' current courses.

The entries can be edited and deleted as needed from in the app.

Courses entered here will appear as option in the Notepad.



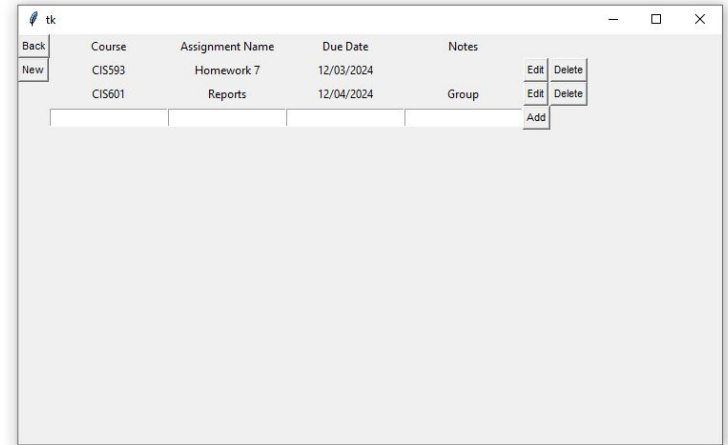
Back	Subject	Cat. Number	Days (M/T/W/Th/F)	Hours (xxxx-xxxx)		
New	CIS	534	T/Th	4:00-5:50	Edit	Delete
	CIS	593	T/Th	12:30-1:50	Save	Delete
	CIS	601	W	2:30-3:30	Edit	Delete
	CIS	694	T/Th	2:00-3:50	Edit	Delete



Features – Assignments

The Features tab takes in user entered assignments and displays them in order of due dates.

Information from here is not referenced elsewhere, but this is a planned feature.



The screenshot shows a Tkinter window titled 'tk' with a table of assignments. The table has four columns: Course, Assignment Name, Due Date, and Notes. There are two rows of data. The first row shows 'CIS593' for Course, 'Homework 7' for Assignment Name, '12/03/2024' for Due Date, and an empty Notes field. The second row shows 'CIS601' for Course, 'Reports' for Assignment Name, '12/04/2024' for Due Date, and 'Group' for Notes. To the right of the table, there are buttons for 'Edit' and 'Delete' for each row, and an 'Add' button at the bottom right.

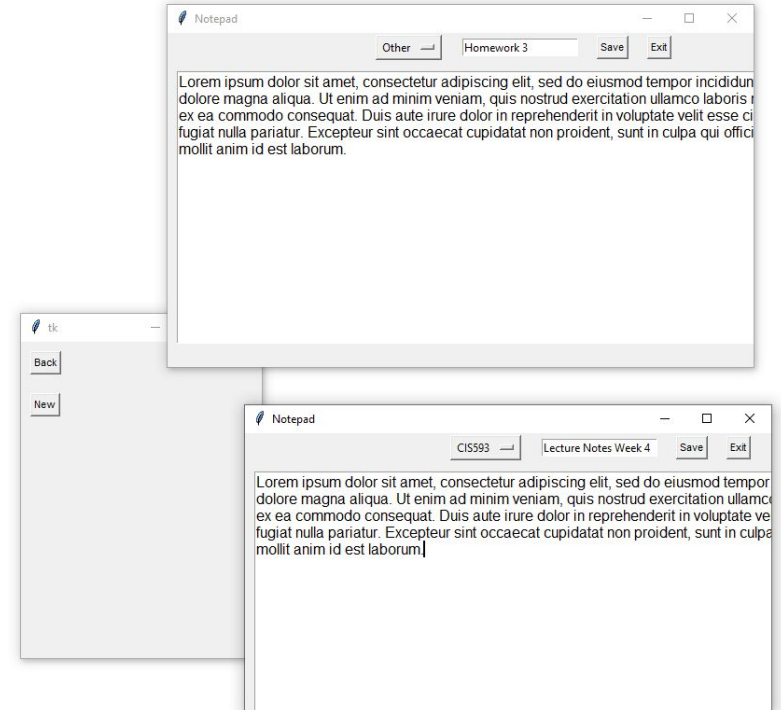
Course	Assignment Name	Due Date	Notes
CIS593	Homework 7	12/03/2024	
CIS601	Reports	12/04/2024	Group

Features – Notepad

The Notepad tab has buttons to make and edit notes.

Separate windows are opened so that multiple notes can be taken simultaneously.

A drop-down lets students save notes as a reference to specific courses.

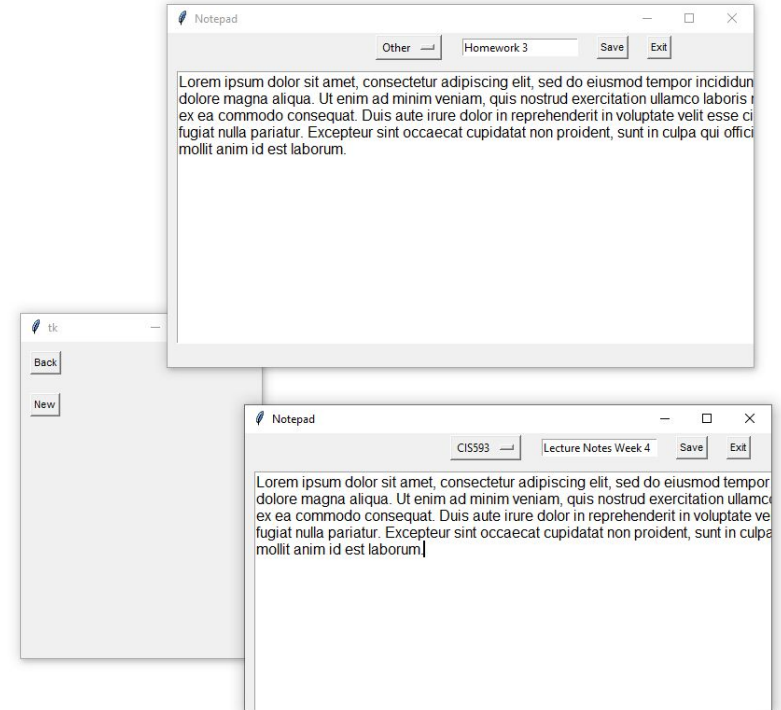


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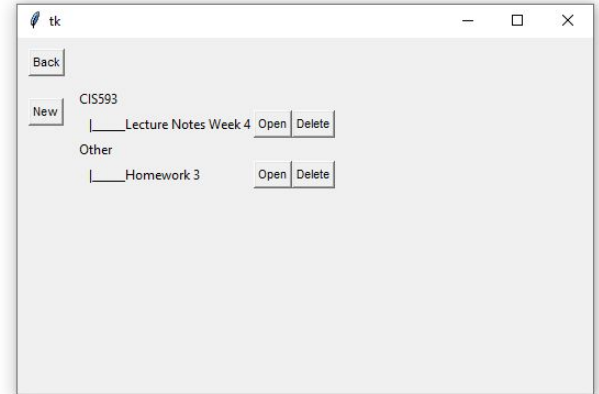
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Features – Notepad cont.

If notes exist, the Notes tab itself will display a stepped directory display showing where the files are stored.

Updates are displayed after the “save” button is clicked within the notepad window.





Closing Remarks