

STUDENT APPLICATIONS WITH TKINTER

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ABSTRACT

This project is based on Python Library Tkinter , which is used to create Graphical User Interface(GUI).Tkinter facilitates many options like label, entry space, buttons, child windows, scrollbars with horizontal and vertical orientation, listbox, gridding and packing , frames etc.

In this project we have four applications – GPA calculator, IIITDMK Gallery, To-Do list, Q&A about IIITDM Kurnool. GPA calculator calculates GPA for AIDS Second Semester students. Gallery has pictures of IIITDMK. To-Do list is for adding and deleting tasks. Q&A about IIITDM Kurnool answers basic questions about institute

KEYWORDS

- ❖ Parent window- Every GUI has one base window ,on which new windows are created.
- ❖ Child window- Windows created on parent window through buttons and other commands
- ❖ Label - Tkinter Label is a widget that is used to implement display boxes where you can place text or images
- ❖ Entry space - The Entry Widget is a Tkinter Widget used to Enter or display a single line of text.
- ❖ Gridding - The grid geometry manager uses the concepts of rows and columns to arrange the widgets.

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CHAPTER 1 : Parent window

The base or Parent window will be having four buttons for four applications with their names at bottom of button and icons at top of button . Parent window has icon of home and on background we can see logo of institute. And it can be resizable to size of screen which is done by using canvas function.

CHAPTER 2 : GPA Calculator

A new window will be opened when GPA Calculator button is clicked in parent window. This window will have labels like Name, Roll no, Course names with course code and adjacent to names there will be an entry space to enter details .

After entering all columns we can click Submit button at bottom left or click “Enter” button in keypad , then credits earned in each course will appear adjacent to each course and at bottom right GPA will be displayed.

If any entry is entered wrongly a warning message pops specifying the wrongly entered row. This window used message box, entry space , label features of Tkinter.

CHAPTER 3: Gallery

By clicking Gallery button in parent window , gallery window will pop up. This window will pictures at middle , at bottom left and right , respective buttons are present for backward and forward of photos . This function works for left and right buttons in keyboard. This

gallery displays pictures of institute Canteen , Classrooms, Faculty cabin , Academic section, Language laboratory, Electronics lab, Library, CSE &IoT lab, VLSI lab, SIC lab, Hostels, SVP Stadium.

CHAPTER 4: To – Do List

A list box with vertical and horizontal scrollbars attached to it is packed in a frame . An entry space at bottom of frame is for entering a new task and upon clicking *add task* button or by clicking Enter button in keypad , it gets added to list of tasks . We can multiselect tasks and click delete button to delete them.

CHAPTER 5: Q&A about IIITDMK

In this window we can have a text box and at bottom we can have entry bar to enter our questions. It answers questions about institute, location of institute, Director, Board members, Special visitors to institute, Schema and syllabus link to each department , Moodle link, Codetantra link for online classes , path directions to Library, Physics lab, Electronics lab-3, SIC lab, CSE & IoT lab, Seminar hall, Canteen by taking steps at backside of college from hostels as starting point.

In this window , text box feature of Tkinter library is used.