CS243

Assignment 1

Group 7

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Title: To-do-list

Project goals:

To design a simple to-do list desktop application for windows users.

Framework used:

Visual Studio 2013

Control Flow:

Master Control:

The application starts with the master control page which has three buttons – Add Task, Search Task and Licence.

Add Form:

 When the user clicks on Add Task button, the user has to provide a description of the task in the text box, its completion date and time in the date-time widget and the task's priority which can be High, Moderate or Low. Now when the user clicks on "Add Task" button, the task is stored in a txt file "list.txt" which can be found in the Documents folder of the user's desktop.

Format of the "list.txt" file:

The Tasks entered by the user are stored in the "list.txt" file in the Documents folder of the user's computer. The tasks are stored in the following format - "description , date/time , priority" followed by the end line character. Thus an example of tasks would be:

Software engg lab assignment , 01/18/2015 12:59:59 AM , High

Hardware engg lab assignment , 01/21/2015 02:00:00 PM , Moderate

Now to go back to the master control window, the user has to clicks on the "Back" button.

Search Form:

When the user clicks on the "Search Task", he/she has to provide a date and time before which he/she wants to enquire and when he/she clicks on the "search" button, the tasks stored in the "list.txt" file which have date/time before than the date/time specified by the user along with their priorities (High' Moderate or Low).

Now, the user has an option to edit or completely remove the task from his/her To-Do.

Delete Task:

The selected task to be deleted, is broken into strings using "," as delimiter and the description part of the selected entry is searched in the file "list.txt". The content of "list.txt" is cleared and all the data (stored as an array of structures in the searchform.vb) is written in the txt file except the matching entry previously found.

Edit Task:

The task (description, date/time and priority) are sent from search form to edit form as a structure and the values of the date-time widget, textbox, and combo box are set with the date/time, description and priority passed respectively. The user can change any or all of the three values and click on "done editing" button.

The Edit task is implemented in such a way that, the selected task is first deleted from the txt file and the new task is then appended to the txt file. And after these file changes are made, the list box showing all the tasks in the search form is refreshed, i.e. the search function is called again (as changes are made in the "list.txt" file) – so the user gets the updated To-Do list of tasks.

Licence:

Opens the application's Licence

Main Features:

There are four main features of this application:

1. The tasks in the list box appear in sorted order i.e. the task to be completed in the near future is listed first in the list
2. Notifications – in every 15 minutes, the user is notified about the tasks to be completed in that hour, thus helping the user to be organised and punctual.
3. Priority – the user can set priority to a task, thus if user considers a task to be very important, he/she can set its priority to high.
4. Very user-friendly interface – the application comes with a very intuitive and easy to understand interface, thus the user can adapt to the application pretty easily