|  |
| --- |
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| Freelance Development Application |
| You may add an image / your own logo (not required) |

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# **Define the task**

## Topic:

## Purpose of program:

## Possible solution:

## Scope:

# **User Stories**

User 1:

| **WHO** | **WHAT** | **WHY** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

User 2:

| **WHO** | **WHAT** | **WHY** |
| --- | --- | --- |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

# **Acceptance Test – List FOUR Functions**

* The system
* The system
* The system
* The system

# **Data Dictionary**

## User defined function

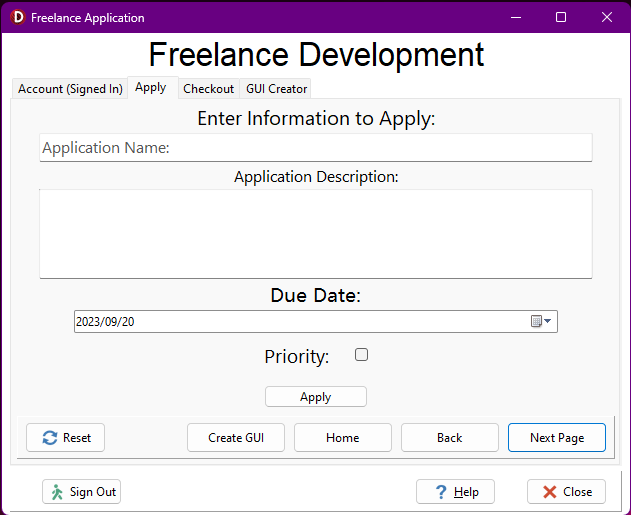
|  |  |
| --- | --- |
| **Signature** | **Explanation** |
|  |  |

# **Navigation**

# **GUI Design**

## Tab Sheet 1 (User 1):

Screenshot



## INPUT:

| **tsApply (Apply)** | | | | |
| --- | --- | --- | --- | --- |
| **Source** | **Variable name & data type** | **Format (size, M/F for gender, yyyy/mm/dd)** | **Object Name** | **Local/Global variable** |
| edtApplyTaskName | sTaskName : String | String with no more than 50 characters | Edit | Local |
| redApplyDescription | sDescription :  String | String that consists of at least one line | Richedit | Local |
| dtpApplyDueDate | dDueDate : Date | Date object to store the due date from picker | DateTimePicker | Local |
| chkApplyPriority | bPriority : Boolean | Boolean from checkbox indication priority true/false | Checkbox | Global |

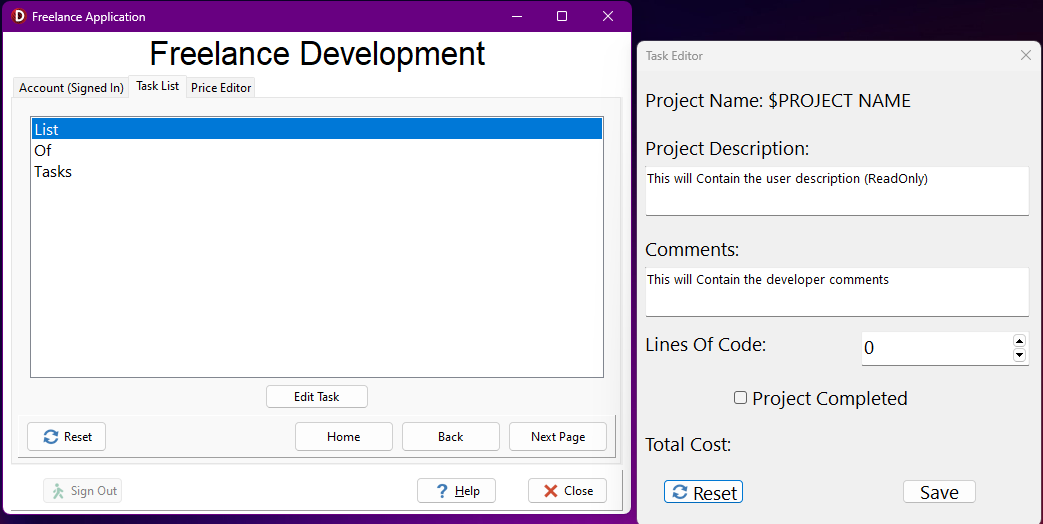
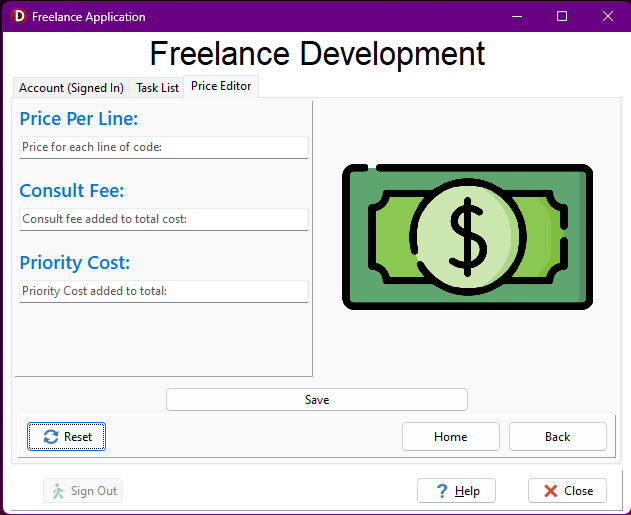
## 

## OUTPUT:

| **tsCheckout (Checkout)** | | |
| --- | --- | --- |
| **Output** | **Format (Type, size)** | **Component** |
| Task Information | Caption: <Task Name without Description as a String> | Listbox |
| Total Cost | Total Cost: <Cost of Task with Consult Fee as a Real formatted as a currency> | Label |
| Status | Status: <Status 'In Progress'/'Completed' as a String | Label |
| Lines Of Code | Lines Of Code: <Amount of lines as an Integer> | Label |
| Developer Comments | <Comments from the developer in lines of Strings> | Richedit |

## Tab Sheet 2 (User 2):

Screenshot



## INPUT:

| **tsPriceEditor (Price Editor)** | | | | |
| --- | --- | --- | --- | --- |
| **Source** | **Variable name & data type** | **Format (size, M/F for gender, yyyy/mm/dd)** | **Object Name** | **Local/Global variable** |
| edtPriceEditor | rPricePerLine : Real | Real with only a max of 2 desimal points formatted as a currency | Edit | Global |
| edtPriceEditorConsultFee | rConsultFee : Real | Real with only a max of 2 desimal points formatted as a currency | Edit | Global |
| edtPriceEditorPriorityCost | rPriorityCost : Real | Real with only a max of 2 desimal points formatted as a currency | Edit | Global |

| **tsTaskList (Task List)** | | | | |
| --- | --- | --- | --- | --- |
| **Source** | **Variable name & data type** | **Format (size, M/F for gender, yyyy/mm/dd)** | **Object Name** | **Local/Global variable** |
| redComments | sComments :  String | Lines of Strings that contain the developer comments from the Richedit | Richedit | Local |
| sedLinesOfCode | iLinesOfCode : Integer | Integer of the total amount of code lines | Spinedit | Local |
| chkCompleted | bCompleted : Boolean | True/False value for if the project is completed | Checkbox | Local |

## OUTPUT:

| **tsTaskList (Task List)** | | |
| --- | --- | --- |
| **Output** | **Format (Type, size)** | **Component** |
| Total Cost | Total Cost: <Cost of Task with Consult Fee formatted as a currency> | Label |
| Project Description | <Paragraph formatted in lines from the stored values in the text file> | Richedit |
| Project Name | Project Name: <String from stored value in text file> | Label |

# **IPO – Software Design Tool**

## INPUT VALIDATION:

| **Input** | **Validation technique and description** | **Associated error message** |
| --- | --- | --- |
| iLinesOfCode | Range Check: Check if the value is in a certain range (iLinesOfCode > 100) | 'Minimum lines of code not reached! Cannot charge consult fee for less than 100 lines of code' |
| lstTaskListItems.ItemIndex | Presence Check: Check if an Item was selected from the lstTaskListItem | 'Please Select an item!' |
| sTaskName | Allowed Character Check: Check if special characters were used in the Task Name | 'Please remove special characters from Application Name' |
| sTaskName | Range Check: Check if the Task Name has at least 1 Character and at most 50 | 'Application Name must be between 1 and 50 characters' |

## PROCESSING:

|  |  |
| --- | --- |
| **What processing will be done** | **Algorithms, formulas, etc.** |
| **List:** | **Algorithms:** |
| 1 Total Cost | iLinesOfCode <- input from text file  rCost <- iLinesOfCode \* rPricePerLine  rTotalCost <- rCost + rConsultFee  if bPriority  rTotalCost <- rTotalCost + rPriorityFee  Display rTotalCost formatted as a currency |
| 2 File IO | Algorithm 2 |
|  |  |