Program Cover Sheet

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| Name: Nathan VanSnepson |
| Assignment: Assignment 4 |
| List any parts of the assignment that do not work/were not completed: (None) |

|  |
| --- |
| Instructor’s Comments: |
| Grade: |

Program Submission Requirements: (1) all files, zipped and uploaded to Canvas and (2) a completed cover sheet, program execution screenshots and source code printed, **stapled** and turned in during class. Failure to follow the submission requirements will result in points lost on that particular assignment.

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'- File Name : Form1.frm -

'- Part of Project: Assignment4 -

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' Written On: February 16, 2022 -

' Written By: Nathan VanSnepson -

'------------------------------------------------------------

'- File Purpose: -

'- -

'- This file contains the main form for the entire applic- -

'- ation. It interacts with the user and displays dish -

'- information, prepped items information, and raw items -

'- information. It allows the user to connect raw items to -

'- prepped items and prepped items to dishes. -

'------------------------------------------------------------

'- Program Purpose: -

'- -

'- The purpose of this program is to display the breakdown -

'- of dishes, showing the prepped items and raw items that -

'- are attached. Also, it allows the user to build new -

'- dishes.

'------------------------------------------------------------

'- Global Variable Dictionary (alphabetically): -

'- dictDishes - Dictionary that has a key of String(Dish) -

'- and value of dictionary wich has a key of String(Prepped)-

'- and a value of dictionary which has a key of String(Raw) -

'- and a value of String(Raw) -

'- dictPrepped - Dictionary that has a key of String(Prepped-

'- ) and a value of dictionary that has key of String(Raw) -

'- and a value of String(Raw) -

'- dictRaw - Dictionary that has a key of String(Raw) and a -

'- value of String(Raw) -

'------------------------------------------------------------

Public Class Form1

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Dim dictDishes As New SortedDictionary(Of String, Dictionary(Of String, Dictionary(Of String, String)))(StringComparer.InvariantCultureIgnoreCase)

Dim dictPrepped As New SortedDictionary(Of String, Dictionary(Of String, String))(StringComparer.InvariantCultureIgnoreCase)

Dim dictRaw As New SortedDictionary(Of String, String)(StringComparer.InvariantCultureIgnoreCase)

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Private Sub populateDictionaries()

'------------------------------------------------------------

'- Subprogram Name: populateDictionaries -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to prepopulate the -

'- dictionaries.

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- (none) -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Put default ingredients into dictRaw

dictRaw.Add("Basket", "Basket")

dictRaw.Add("Beef Patty", "Beef Patty")

dictRaw.Add("Bun", "Bun")

dictRaw.Add("Chicken", "Chicken")

dictRaw.Add("Glass", "Glass")

dictRaw.Add("Grapes", "Grapes")

dictRaw.Add("Ketchup", "Ketchup")

dictRaw.Add("Lettuce", "Lettuce")

dictRaw.Add("Mayonnaise", "Mayonnaise")

dictRaw.Add("Mustard", "Mustard")

dictRaw.Add("Oil", "Oil")

dictRaw.Add("Onions", "Onions")

dictRaw.Add("Pickles", "Pickles")

dictRaw.Add("Plate", "Plate")

dictRaw.Add("Potatoes", "Potatoes")

dictRaw.Add("Sugar", "Sugar")

dictRaw.Add("Syrup", "Syrup")

dictRaw.Add("Water", "Water")

'Insert default prepped items into dictPrepped

dictPrepped.Add("Hamburger", New Dictionary(Of String, String)(StringComparer.InvariantCultureIgnoreCase))

dictPrepped.Item("Hamburger").Add("Beef Patty", "Beef Patty")

dictPrepped.Item("Hamburger").Add("Bun", "Bun")

dictPrepped.Item("Hamburger").Add("Ketchup", "Ketchup")

dictPrepped.Item("Hamburger").Add("Mustard", "Mustard")

dictPrepped.Item("Hamburger").Add("Onions", "Onions")

dictPrepped.Item("Hamburger").Add("Pickles", "Pickles")

dictPrepped.Item("Hamburger").Add("Plate", "Plate")

dictPrepped.Add("Fries", New Dictionary(Of String, String)(StringComparer.InvariantCultureIgnoreCase))

dictPrepped.Item("Fries").Add("Potatoes", "Potatoes")

dictPrepped.Item("Fries").Add("Basket", "Basket")

dictPrepped.Add("Chicken Salad", New Dictionary(Of String, String)(StringComparer.InvariantCultureIgnoreCase))

dictPrepped.Item("Chicken Salad").Add("Chicken", "Chicken")

dictPrepped.Item("Chicken Salad").Add("Lettuce", "Lettuce")

'Insert default dishes into dictDishes

dictDishes.Add("Chicken Salad Platter", New Dictionary(Of String, Dictionary(Of String, String))(StringComparer.InvariantCultureIgnoreCase))

dictDishes.Item("Chicken Salad Platter").Add("Chicken Salad", dictPrepped.Item("Chicken Salad"))

dictDishes.Add("Hamburger Platter", New Dictionary(Of String, Dictionary(Of String, String))(StringComparer.InvariantCultureIgnoreCase))

dictDishes.Item("Hamburger Platter").Add("Hamburger", dictPrepped.Item("Hamburger"))

dictDishes.Item("Hamburger Platter").Add("Fries", dictPrepped.Item("Fries"))

End Sub

Private Sub populateRaw()

'------------------------------------------------------------

'- Subprogram Name: populateRaw -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate listbox -

'- lstRaw with all the raw items in dictRaw -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- (none) -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears the listbox

lstRaw.Items.Clear()

'Loops through raw items to fill listbox

For Each raw As String In dictRaw.Keys

lstRaw.Items.Add(raw)

Next

End Sub

Private Sub populatePrepped()

'------------------------------------------------------------

'- Subprogram Name: populatePrepped -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate listbox -

'- lstPrepped with all the prepped items in dictPrepped -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- (none) -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears the listbox

lstPrepped.Items.Clear()

'Loops through prepped items to fill listbox

For Each prepped As String In dictPrepped.Keys

lstPrepped.Items.Add(prepped)

Next

End Sub

Private Sub populateDishes()

'------------------------------------------------------------

'- Subprogram Name: populateDishes -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate listbox -

'- lstDishes with all the dishes in dictDishes -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- (none) -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears the listbox

lstDishes.Items.Clear()

'Loops through dishes to fill listbox

For Each dishes As String In dictDishes.Keys

lstDishes.Items.Add(dishes)

Next

End Sub

Private Sub populateSelectedRaw(preppedItem As String)

'------------------------------------------------------------

'- Subprogram Name: populateSelectedRaw -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate listbox -

'- lstSelectedRaw with all the raw items associated with a -

'- given prepped item. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- preppedItem - A prepped item that comes from dictPrepped -

'- to access its raw items -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears the listbox

lstSelectedRaw.Items.Clear()

'Loops through raw items for a prepped item to fill listbox

For Each rawItem As String In dictPrepped.Item(preppedItem).Keys

lstSelectedRaw.Items.Add(rawItem)

Next

End Sub

Private Sub populateSelectedPrepped(dish As String)

'------------------------------------------------------------

'- Subprogram Name: populateSelectedPrepped -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate listbox -

'- lstSelectedPrepped with all the prepped items associated -

'- with a given dish. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- dish - A dish that comes from dictDishes to access its -

'- prepped items -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears the listbox

lstSelectedPrepped.Items.Clear()

'Loops through raw items for a prepped item to fill listbox

For Each preppedItem As String In dictDishes.Item(dish).Keys

lstSelectedPrepped.Items.Add(preppedItem)

Next

End Sub

Private Sub Form1\_Load(sender As Object, e As EventArgs) Handles MyBase.Load

'------------------------------------------------------------

'- Subprogram Name: Form1\_Load -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to prepopulate all the -

'- dictionaries, then populate the listboxes that show all -

'- the associated items. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Prepopulates dictionaries

populateDictionaries()

'Populates lstRaw

populateRaw()

'Populates lstPrepped

populatePrepped()

'Populates lstDishes

populateDishes()

End Sub

Private Sub btnAddRaw\_Click(sender As Object, e As EventArgs) Handles btnAddRaw.Click

'------------------------------------------------------------

'- Subprogram Name: btnAddRaw\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to add new raw items to-

'- dictRaw and repopulate lstRaw. -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpAddRaw.Clear()

'Checks for valid raw item entry

If dictRaw.ContainsKey(txtAddRaw.Text) Or txtAddRaw.Text.Length = 0 Then

'displays error to use if invalid entry

erpAddRaw.SetError(txtAddRaw, "Raw ingredient already exists or is empty")

Else

'add raw item to dictRaw

dictRaw.Add(txtAddRaw.Text, txtAddRaw.Text)

'repopulate lstRaw

populateRaw()

End If

End Sub

Private Sub btnAddPrepped\_Click(sender As Object, e As EventArgs) Handles btnAddPrepped.Click

'------------------------------------------------------------

'- Subprogram Name: btnAddPrepped\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to add new prepped -

'- items to dictPrepped and repopulate lstPrepped -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpAddPrepped.Clear()

'Checks for valid prepped item entry

If dictPrepped.ContainsKey(txtAddPrepped.Text) Or txtAddPrepped.Text.Length = 0 Then

'displays error to use if invalid entry

erpAddPrepped.SetError(txtAddPrepped, "Raw ingredient already exists or is empty")

Else

'add prepped item to dictPrepped

dictPrepped.Add(txtAddPrepped.Text, New Dictionary(Of String, String)(StringComparer.InvariantCultureIgnoreCase))

'repopulate lstPrepped

populatePrepped()

End If

End Sub

Private Sub btnAddDish\_Click(sender As Object, e As EventArgs) Handles btnAddDish.Click

'------------------------------------------------------------

'- Subprogram Name: btnAddDish\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to add new dishes to -

'- dictDishes and repopulate lstDishes -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpAddDish.Clear()

'Checks for valid prepped item entry

If dictDishes.ContainsKey(txtAddDish.Text) Or txtAddDish.Text.Length = 0 Then

'displays error to use if invalid entry

erpAddDish.SetError(txtAddDish, "Raw ingredient already exists or is empty")

Else

'add dish to dictDishes

dictDishes.Add(txtAddDish.Text, New Dictionary(Of String, Dictionary(Of String, String))(StringComparer.InvariantCultureIgnoreCase))

'repopulate lstDishes

populateDishes()

End If

End Sub

Private Sub lstPrepped\_SelectedIndexChanged(sender As Object, e As EventArgs) Handles lstPrepped.SelectedIndexChanged

'------------------------------------------------------------

'- Subprogram Name: lstPrepped\_SelectedIndexChanged -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate -

'- lstSelectedRaw with the associated raw items for a -

'- selected prepped item -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'If there is 1 prepped item selected in lstPrepped

If lstPrepped.SelectedItems.Count = 1 Then

'Populate lstSelectedRaw with associated raw items

populateSelectedRaw(lstPrepped.SelectedItem.ToString())

End If

End Sub

Private Sub lstDishes\_SelectedIndexChanged(sender As Object, e As EventArgs) Handles lstDishes.SelectedIndexChanged

'------------------------------------------------------------

'- Subprogram Name: lstDishes\_SelectedIndexChanged -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to populate -

'- lstSelectedprepped with the associated prepped items for -

'- a selected dish -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'If there is 1 dish selected

If lstDishes.SelectedIndex > -1 Then

'Populate lstSelectedPrepped with associated prepped items

populateSelectedPrepped(lstDishes.SelectedItem.ToString())

End If

End Sub

Private Sub btnSelectRaw\_Click(sender As Object, e As EventArgs) Handles btnSelectRaw.Click

'------------------------------------------------------------

'- Subprogram Name: btnSelectRaw\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to add selected raw -

'- items from lstRaw to the prepped item, then update -

'- lstSelectedRaw -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpSelectedRaw.Clear()

'Checks if no raw items were selected

If lstRaw.SelectedItems.Count = 0 Then

'Display error, select a raw item

erpSelectedRaw.SetError(btnSelectRaw, "Select Raw Items to add!")

'Chckes if no prepped items were selected

ElseIf lstPrepped.SelectedItems.Count = 0 Then

'Display error, select a prepped item

erpSelectedRaw.SetError(btnSelectRaw, "Select Prepped Item to add raw Items!")

'Checks if only 1 prepped item was selected

ElseIf lstPrepped.SelectedItems.Count = 1 Then

'Checks if prepped item is not an empty item

If lstPrepped.SelectedItem.ToString().Length > -1 Then

'Loops through selected raw items and adds them to the proper prepped item

For Each rawItem As String In lstRaw.SelectedItems

If Not dictPrepped.Item(lstPrepped.SelectedItem.ToString()).ContainsKey(rawItem) Then

dictPrepped.Item(lstPrepped.SelectedItem.ToString()).Add(rawItem, rawItem)

End If

Next

End If

'Repopulates lstSelectedRaw

populateSelectedRaw(lstPrepped.SelectedItem.ToString())

End If

End Sub

Private Sub btnDeselectRaw\_Click(sender As Object, e As EventArgs) Handles btnDeselectRaw.Click

'------------------------------------------------------------

'- Subprogram Name: btnDeselectRaw\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to remove selected raw -

'- items from lstSelectedRaw from the prepped item, then -

'- update lstSelectedRaw -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpRemoveSelectedRaw.Clear()

'If no raw items were selected

If lstSelectedRaw.SelectedItems.Count = 0 Then

'Display error, select raw items to remove

erpRemoveSelectedRaw.SetError(btnDeselectRaw, "Select Raw Items to remove!")

'If more or less than 1 prepped item was selected

ElseIf lstPrepped.SelectedItems.Count <> 1 Then

'Display error, only select 1 raw item

erpRemoveSelectedRaw.SetError(btnDeselectRaw, "Select only one prepped item to remove Raw Items!")

Else

'Loops through selected raw items and removes them from the proper prepped item

For Each rawItem As String In lstSelectedRaw.SelectedItems

dictPrepped.Item(lstPrepped.SelectedItem.ToString()).Remove(rawItem)

Next

'Repopulates lstSelectedRaw

populateSelectedRaw(lstPrepped.SelectedItem.ToString())

End If

End Sub

Private Sub btnSelectPrepped\_Click(sender As Object, e As EventArgs) Handles btnSelectPrepped.Click

'------------------------------------------------------------

'- Subprogram Name: btnSelectPrepped\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to add selected prepped-

'- items from lstPrepped to the dish, then update -

'- lstSelectedPrepped -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpSelectedPrepped.Clear()

'If no prepped items were selected

If lstPrepped.SelectedItems.Count = 0 Then

'Display error, select prepped items

erpSelectedPrepped.SetError(btnSelectPrepped, "Select Prepped Items to add!")

'If no dishes were selected

ElseIf lstDishes.SelectedItems.Count = 0 Then

'Display error, select dish

erpSelectedPrepped.SetError(btnSelectPrepped, "Select Dish to add Prepped Items!")

'If only 1 dish was selected

ElseIf lstDishes.SelectedItems.Count = 1 Then

'if selected prepped item is not empty String

If lstPrepped.SelectedItem.ToString().Length > -1 Then

'Loop through selected Prepped items and add them to the proper dish

For Each preppedItem As String In lstPrepped.SelectedItems

If Not dictDishes.Item(lstDishes.SelectedItem.ToString()).ContainsKey(preppedItem) Then

dictDishes.Item(lstDishes.SelectedItem.ToString()).Add(preppedItem, dictPrepped.Item(preppedItem))

End If

Next

'Repopulate lstSelectedPrepped

populateSelectedPrepped(lstDishes.SelectedItem.ToString())

End If

End If

End Sub

Private Sub btnDeslectPrepped\_Click(sender As Object, e As EventArgs) Handles btnDeslectPrepped.Click

'------------------------------------------------------------

'- Subprogram Name: btnDeslectPrepped\_Click -

'------------------------------------------------------------

'- Written By: Nathan VanSnepson -

'- Written On: February 16, 2022 -

'------------------------------------------------------------

'- Subprogram Purpose: -

'- The purpose of this subprogram is to remove selected -

'- prepped items from lstSelectedPrepped from the dish, then-

'- update lstSelectedPrepped -

'------------------------------------------------------------

'- Parameter Dictionary (in parameter order): -

'- sender - reference to the object that raised the event -

'- e - reference to EventArgs class that contains any addi- -

'- tional information about the event. -

'------------------------------------------------------------

'- Local Variable Dictionary (alphabetically): -

'- (None) -

'------------------------------------------------------------

'Clears error, removes it from screen

erpRemoveSelectedPrepped.Clear()

'Checks if no prepped items were selected

If lstSelectedPrepped.SelectedItems.Count = 0 Then

'Display error, select prepped items

erpRemoveSelectedPrepped.SetError(btnDeslectPrepped, "Select Prepped Items to remove!")

'If more or less than 1 dish is selected

ElseIf lstDishes.SelectedItems.Count <> 1 Then

'Display error, Select a dish to remove prepped items

erpRemoveSelectedPrepped.SetError(btnDeslectPrepped, "Select a Dish to remove Prepped Items!")

Else

'Loops through selected prepped items and removes them from the proper dish

For Each preppedItem As String In lstSelectedPrepped.SelectedItems

dictDishes.Item(lstDishes.SelectedItem.ToString()).Remove(preppedItem)

Next

'repopulates lstSelectedPrepped

populateSelectedPrepped(lstDishes.SelectedItem.ToString())

End If

End Sub

End Class