Development Software 2 - DOS200S

Portfolio Assignment 5 Property Listing (Database) Application

Objectives and Learning Areas:

For this exercise the following skills are being tested:

- 1. Connect to a database using OleDb
- 2. Add the OleDbDataAdapter component to create a database connection
- 3. Insert, Update and Delete a record to the database using sql statements
- 4. Use the oleDbDataAdapter to execute the query

Requirements

- 1. Given the specification of the Properties Application requested in the June 2013 as listed below, convert this application to include a connection to an access database.
- 2. The Application must read all records from the database table and display them in the listView
- 3. Add oleDbDataAdapter control to connect to the CarRental Database (the table layout is shown above)
- 4. Write the Insert, Update and Delete code where required to Alter the RentalList table.

Database Layout

Database Name	Table Name	FieldNames	Туре	Sample Data
PropertiesDb	PropertyList	PropertyNumber	Number	1010
(access database)		Suburb	Text	Bellville
		Price	Currency	150000
		Bedrooms	Number	3
		Bathrooms	Number	2
		Garage	Text	Single
		ErfSize	Number	250
		ImageRef	Text	1010Blv

Specification & Screen Layouts

A Property Agency in the Cape region needs a computer application that would allow them to keep a record of all the properties that they are selling. The application must be able to:

- store properties with the necessary information;
- view information of properties;
- change the information for a specific property;
- delete information for a specific property.

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A property record contains the following information:

- **PropertyNumber:** A unique number for the property.

- **Suburb:** The Suburb in which the property is located.

- **Price:** The price of the property.

Bedrooms: The number of bedrooms at the property.
 Bathrooms: The number of bathrooms at the property.
 Garage: Whether the property has a single garage, or

double garage, or no garage (none).

The size of the property in square meters (m²).

ImageRef: The image reference refers to the name of the

image for the property stored. It will be the PropertyNumber + ".jpg"

Using the screen designs below, you need to develop a Windows Forms Application that would meet the required functionalities stated further below:

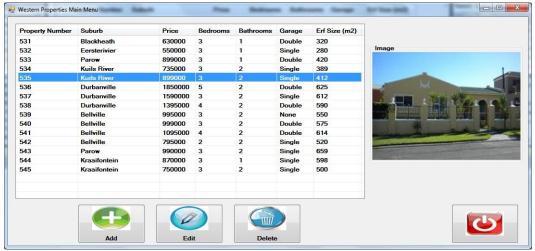


Figure 1.1 - Main Form (Viewing all Properties)

When the application starts, it loads this form shown in *Figure 1.1* first, where the user can see all the properties that are on sale. The user can Add a new property, Edit a property, or Delete a property.



When the user presses the Add button, the form shown in *Figure 1.2* displays.

The user can enter the necessary values and press Save to return to the Main Form or Cancel to return without saving.

Figure 1.2 - Add Property Form

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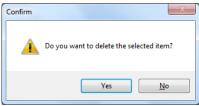


When the user selects an item from the listview and clicks on the edit button, the Update form shown in Figure 1.3 displays.

The user can now make the necessary changes and press Save to update the record or press Cancel to leave the item unchanged.

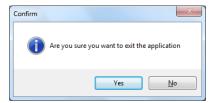
Figure 1.3 - Update Property Form

When the user clicks on the selected a item from the Figure 1.3 displays.



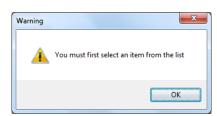
edit or delete button without having listview, the message as shown in

Figure 1.4 - Warning Message



When the user selects an item and clicks the Delete button, a confirmation message displays as shown in Figure 1.5

Figure 1.5 - Delete Confirmation Message



This message shown in Figure 1.6 will show on pressing the Exit button. This is a confirmation message and if the user selects **Yes**, the application will terminate, else it will remain open.

Figure 1.6 - Exit Confirmation Message