# Exercise: Images and Camera

You will create a simple app that stores image file names in a database and associates those images with people. Review the Tips section at the end before starting work on the App.

A solution “shell” has been created for you, download XamCamEx1 and use it as a starting point.

## Database Setup

The database layer has already been setup. Review the ClientContact and ClientDatabase classes. There is one ORM class, ClientContact. The object has the following properties:

* ID – int, primary key, auto increment
* FullName – string
* Address – string
* Phone – string
* Photo – string (will be a path and filename)

## Client List Screen

Edit the MainPage.xaml.cs to show a list view that contains the name and image for all of the clients in the database. Tapping on one of them will open the second page which will allow for modification of their properties. There will also be a button underneath the list view called “Add Client” which will open the same page, but in this case the client will be a new client.

## Edit Client Screen

This page will have a basic table view for editing each of the fields. For the picture, tapping on the button beside the image will cause the camera to open and allow taking a new picture. Save the picture in the form “fullname.png” with the ID being whatever their name is. For now don’t worry about error checking if there isn’t a name entered yet. There will be a button at the bottom to save changes. Modify the existing constructor – note that it takes in a ClientContact object (a null object passed in would represent a new client).

## Tips

The OnAppearing method of Content Pages can be overridden which allows you to react whenever that page becomes visible. This is helpful to react for things like refreshing a list view or reloading a new image that the camera may have taken that overwrote the old image file. Note: You may have to go into the camera again and “back out” to see the image on the edit page after taking a new photo even when using OnAppearing.