**Installation and Training**

**(Must be performed using VS-2017)**

**Section 1** (Setup ~ This section **MUST** be completed first and in order)

1. From GitHub, download into a common folder the “[WebMaster](https://github.com/djonruddbay/WebMaster)“ and “[AppUser](https://github.com/djonruddbay/AppUser)” solutions.
2. Using VS-2017, open and launch the “WebMaster” solution.
3. Click <Apply Migrations> when the prompt appears. This creates the database.
4. Refresh the page when prompted.
5. When the “Register” page appears create a “WebMaster” profile. Instructions appear as you progress through the steps. This user will be referenced as “WebMaster” in these instructions.

**Notes:**

* The “WebMaster” user creates the user roles “WebMastr” and “AppUser”.
* Only “WebMastr” users can run the “WebMaster” solution; and only those registered as an “AppUser” can run “AppUser”.
* Once a “WebMastr” user has been created, all other “WebMastr” users must be created by an existing “WebMastr”.

**Section 2** (Create “AppUser1”)

1. Launch the “WebMaster” app if necessary and Sign-In as “WebMaster”.
2. Click and read the information found in the “About” and “Notes” menu bar items.
3. Click the “WebMaster” menu bar option and explore the options.
4. Click menu bar option “Users”.
5. Click <New User>.
6. Leave the “Check If This User Is A WebMaster:” check-box ***unchecked*** and register a new user. This user will be referenced as “AppUser1” in the future.

**Note:**

* You may create additional “WebMastr” users by checking the “WebMaster” checkbox when registering a new user.

1. From the “Users” page, select “AppUser1” by clicking the blue <Edit> button on the right.
2. The fields on the left are available for editing and the others are not. Notice the message ”**Profile Not On File For User!”**. This simply means that the user doesn’t have a profile record. Later, one will be created, and this message will change to a button that accesses the user’s profile.
3. Click the “Confirmed” check box next to the “Email” and save the change. By doing this, the user’s Email is now confirmed without the use of Email verification.
4. Notice the “Update Successful” message, then click <Return>.
5. You have now returned to the “Users” page which should be displaying at least one “WebMaster” and one “AppUser”.

**Notes:**

* By clicking a column heading the users can be sorted in ascending or descending on that column.
* You may search the users by User-Id, Email or Phone Number by entering a “search phrase” and clicking the appropriate “search by” button. Click <Reset> to clear the search criteria.
* The blue <Edit> and red <Delete> buttons are also available for each user.
* When there are sufficient users, the up and down arrows become available for paging.
* Hovering over the edit, delete, and paging buttons will “pop-up” an explanation of that button’s function when the button is available.

1. Sign-Out.
2. Attempt to Sign-In as “AppUser1”
3. Close the browser.

**Section 3** (Create “AppUser2”)

1. Launch the “AppUser” app.
2. Explore the menu bar options, especially “About” and “Notes”. Notice that the “Notes” are identical to those found in the “WebMaster” solution.
3. Attempt to Sign-In as “WebMaster”.
4. Click the “Register” option.
5. Register a new “AppUser” which will be referenced as “AppUser2”. Make a note of the “Security Selections” as they will be needed later.
6. Sign-In as “AppUser2”.
7. Select menu bar option “My Profile”.
8. From here the user can make changes to their Password, Security Selections, E-Mail, and Phone Number.
9. Notice the orange warning sign associated with the Email Address and Phone Number (if entered). This means that these items have not been verified. Also notice the “**Profile Can Not Be Created Until E-Mail Is Verified!!!**” message.
10. Sign-Out.
11. Click “Sign-In” and then select “Forgot My Password”.
12. Enter the User-Id for “AppUser2”.
13. Select the previously recorded “Security Selections”, then click <Continue>.
14. Enter and Confirm the new password for this user, then click <Reset Password>. The “forgotten” password for “AppUser2” has been reset and “AppUser2” may sign-in.
15. Log-In as “AppUser1” and click menu bar option “My Profile”.
16. Notice the green check mark beside the email address, which shows that it has been verified and the <Create Profile> button is available.
17. Click the <Create Profile> button.
18. Select a profile image. For your convenience, there are several images in the “wwwroot/images/ProfilePictures sub-folder” within the “AppUser” folder.
19. Enter a first and last name and any of the remaining optional information, then click <Create Profile>.
20. The “My Profile” page has now extended to include the additional information. Please note that the Profile Image is being copied in background and may take some time before it is presented. “Image Not Available” will be displayed in place of the Profile Image during this time.
21. Click menu bar option “Home”. The Profile Image (if available) and user’s name will appear.

**Section 4** (Create “WebSites Menu”)

1. If necessary, launch the “AppUser” app and “Sign-In” as “AppUser1”.
2. Select the “WebSites Menu” menu bar option.
3. Click <Add First Menu Item>.
4. Enter a menu item description (ex: Shopping).
5. Click <Add New> to record the new entry, or <Cancel> to exit.
6. After the first Menu Item has been created, click the right chevron.
7. Use the <Insert Menu Item Above/Below> buttons to create additional “WebSites Menu” items. (ex. Cooking, Sports ).
8. After the menu items have been created, explore the remaining options. Notice that the <Move Up> and <Move Down> buttons are not available for the first and last items respectfully.

**Section 5** (Create “WebSites”)

1. From the “WebSites Menu” page.
2. Click one of the “WebSites Menu” items (ex. Shopping).
3. The “WebSites” maintenance page will appear and the “WebSites Menu” item heading will show on the top of the page.
4. Click <Add New>.
5. Enter a websites description and URL then click <Add New>.

**Notes:**

* A valid URL must be entered in the “Web Site” field.
* You can use right-click to copy and paste a website’s URL into the field.
* Duplicate URL and Website Descriptions are allowed.

1. Repeat these steps until you have entered several websites.

**Note:**

* WebSites are listed in Alphabetical order by description in both applications.

1. “Launch” a few of the newly entered websites and explore the other buttons on the page. The Sort and Paging buttons won’t be available until several entries have been made.
2. Click <Return>.
3. Click the right chevron next to the “WebSites Menu” item that has websites assigned. Notice that the delete option is not available.
4. Select a “WebSites Menu” item that doesn’t have any websites assigned and delete it.
5. Now try to edit the description of one.
6. You may enter websites for the remaining “WebSites Menu” items.
7. Afterwards select the “Home” page and explore the personalized “WebPage” menu by clicking some menu items or their associated chevrons. Be sure launch a few by clicking the website description or the associated “rocket” icon.
8. Sign-Out and close the browser.

**Section 6** (Maintenance Profile, WebSites Menu, and WebSites Data)

1. Launch the “WebMaster” app and Sign-In as “WebMaster”.
2. Click the “Users” menu bar option.
3. Click the red <Delete> button for “AppUser1”.
4. Notice the warning and click <Return>.
5. Click the blue <Edit> button for “AppUser1”.
6. Click the <View/Edit Profile> button to access the profile record for the user.
7. Updates to the Profile record can be performed here.
8. Click the “Profiles” menu bar option.
9. Click the red <Delete> button and notice the warning message.
10. Click <Return>.
11. Click the blue <Edit> button for “AppUser1” to return to the profile update page.
12. Click the <WebSites Menu> button.
13. The menu items that were entered by “AppUser1” are shown on this page.

**Note:**

* WebSite Menu items are listed in sequential order by “Sequence Number” in both applications.

1. From this page, you can update, delete, and create records in the “WebSites Menu” table. The selected profile’s name is shown on the top left. Also, the delete button will be disabled for menu Items with websites assigned to them.
2. Notice the “\* Click Menu Description For WebSites” message located on the lower left portion of the page. Click one to advance to the “WebSites” page.
3. Maintenance to the selected “Menu Item” websites can be performed on this page. Please notice the selected profile’s name on the top left and the “Menu Item” description on the top right of the page. Also, the <Edit>, <Delete> and <Launch> buttons are present for each item and new items may be created here as well.

**Section 7** (Field Level Concurrency Conflicts Management)

1. While logged as “WebMaster”, Access the profile record for “AppUser1”.
2. Using the SQL Server Object Explore in VS-2017, view the data in the “dbo.Profile” table.
3. Change some of information for “AppUser1” and update the row.
4. Return to the “Profile Edit” page and click <Update>.
5. Notice the following:
   * “Profile Changed By Another” message.
   * Informational message(s) under each changed field.
   * The <Update> button has been changed to the <Refresh> button.
6. Click <Refresh> and notice the new data on the page.
7. “Sign-Out” and close the browser.

**Section 8** (Row Level Concurrency Conflicts Management)

1. Launch the “AppUser” app and “Sign-In” as “AppUser1”.
2. Select “My Profile” on the menu bar.
3. Using the SQL Server Object Explore in VS-2017, change some of the data for “AppUser1” in the “dbo.Profile” table.
4. Return to the “My Profile” page and click <Save Changes>.
5. Notice the “NOT Updated - Changed By Another” message and the page has been updated with the new data.
6. Make a change and click <Save Changes>.
7. Notice the “Profile Successfully Updated!” message.
8. “Sign-Out” and close the browser.

**Installation and training are now complete!**