

isobar

Welcome to isobar.ch
Portugal

Index

Week #2 – Practical Lesson #2

- 1. Project: Warship App
- 2. Create App
- 3. Build Object Model
- 4. Modify the User Experience



Project: Build a Warship App

Last week your boss called you into his cubicle and assigned you to a new task: build a new Warship to defeat a group of troublemakers. Do it right. On time, on budget and with no exposed exhaust ports! Or else!

Your primary goals are to construct the Warship and live longer than your predecessor. You decide to manage your project "in the cloud" with Salesforce. This way everyone on your team can collaborate, be successful and stay alive. The last thing you want is to receive an email from your boss with the subject, "You have failed me for the last time."

Before Start: Is your Developer Org up and running?



Project: Build a Warship App

In this project, you will learn:

- how to build an application on the Salesforce Platform from start to finish;
- management app that allows users to manage the resources and supplies used to build a Warship.

You'll be doing:

- Create the app and a data model for the application;
- Modify the user interface on the browser and on the Salesforce mobile app using page layouts, compact layouts, and global actions.
- Implement business logic using formulas, validation rules and a process builder.
- Build reports and dashboards to track and analyze information.



Create App



Create the Warship Object

- 1.From the gear icon (ico), click **Setup** to launch the setup page.
- 2.Click **Object Manager** tab next to the Home tab.
- 2. Click on **Create** dropdown at the right side and then select **Custom Object**.
- 3.On the Custom Object Definition page, create the object as follows:

Label: Warship

Plural Label: Warship

•Record Name: Warship Name

•Check the **Allow Reports** checkbox

Check the Allow Search checkbox

Click Save.



Create the Warship Tab

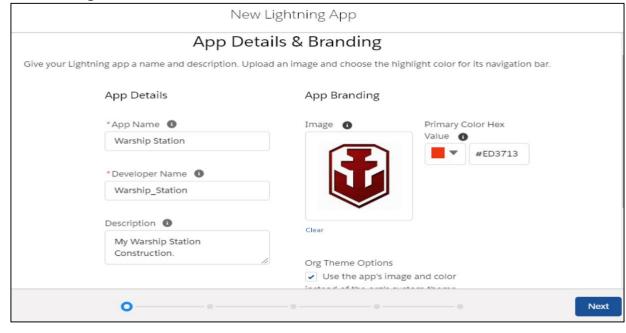
- Now create a Custom Tab. Click the Home tab, enter Tabs in Quick Find and select Tabs.
- 2. Under Custom Object Tabs, click New.
- 3. For **Object**, select **Warship**.
- 4. For **Tab Style**, select any icon.
- 5. Leave all defaults as is. Click Next, Next, and Save.
- 6. Now we need to enable Feed Tracking for the Warship object. From **Setup**, enter *Feed* in the Quick Find and select **Feed Tracking**. Click on Warship, and check the *Enable Feed Tracking* checkbox. Check the Warship Name and Owner checkboxes. Click **Save**.





Create the Warship App

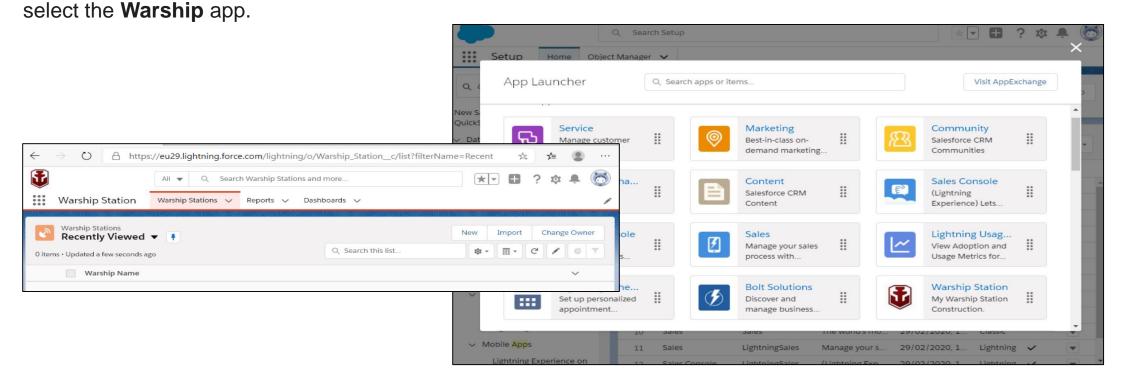
- 1. Now create a Custom App. Click the **Home** tab, enter App Manager in Quick Find and select **App Manager**.
- 2. Click **New Lightning App**. Enter *Warship* as the App Name, then click **Next**.
- 3. Leave Standard Navigation selected, then click Next and again Next.
- From Available Items, select Warships,
 Reports, and Dashboards and move them to Selected Items. Click Next.
- From Available Profiles, select System
 Administrator and move it to Selected Profiles.
 Click Save & Finish.
- To verify your changes, click the App
 Launcher icon in the Lightning Experience header
 App Launcher and select the Warship app.





Create the Warship App

To verify your changes, click the App Launcher icon in the Lightning Experience header App Launcher and





Object Model



Our application will use three custom objects:

Warship — This will be our main object that tracks the status of the project, its supplies and resources.

Resource — Projects are about doing "stuff" and you need resources (that is, people) to do "stuff." We'll use the resources custom object to track the number of people working on the construction project and how much time they are committed to it.

Supply — You also need supplies and equipment to build a Warship. We'll use this object to track our supplies and their costs.



Warship: Add Fields

In the previous step, we built our Warship custom object. Now we need to make custom fields for that object.

- 1.From the gear icon (🏚), click **Setup** to launch the setup page.
- 2.Click the **Object Manager** tab.
- 3.Click Warship.
- 4. Under Fields & Relationships, click New.

Add a Project Status field

- 1. For this field, pick *Picklist* and click **Next**.
- 2. The Field Label enter *Project Status* and click **Next**.



Warship: Add Fields

- 3. Check the radio button next to Enter values, with each value **separated by a new line**.
 - Green
 - Yellow
 - Red
 - Complete
- 4. Display values alphabetically, not in the order entered **Unchecked**.
- 5. Use first value as default value Checked.
- **6. Uncheck** the *Restrict picklist* to the values defined in the value set box.
- 7. Leave the defaults for the remaining fields, and click **Next**.
- 8. Click **Next** again to accept the default field visibility and security settings.
- 9. Click **Save & New** to add the Project Status field to the page layout, save the Project Status field, and return to the first step of the wizard.



Warship: Add fields

Add a Weapons Status field

- 1. For *Data Type*, select **Picklist**, and click **Next**.
- 2. Field Label: Weapons Status
- 3. Check the radio button next to Enter values, with each value separated by a new line:
 - Not Yet Operational
 - Fully Operational
- 4. Display values alphabetically, not in the order entered **Unchecked**.
- 5. Use first value as default value Checked.
- **6. Uncheck** the Restrict picklist to the values defined in the value set box.
- 7. Leave the defaults for the remaining fields, and click **Next**.
- 8. Click **Next** again to accept the default field visibility and security settings.
- 9. Click **Save** to add the Weapons Status field to the page layout, save the Weapons Status field, and return to the Warship Custom Object page.



For **Tab Style**, select any icon.

Leave all defaults as is. Click **Next**, **Next**, and **Save**.

Resource: Custom Object

- 1. 3. Label: Resource Plural Label: Resources Record Name: Resource Name Check the **Allow Reports** checkbox Click Save. Now create a custom tab 5. 6.
- isobar

Resource: Custom Object

- 1. Click **Object Manager** tab next to the Home tab.
- Click on Create dropdown at the right side and then select Custom Object.
- 3. On the Custom Object Definition page, create the object as follows:
 - Label: Resource
 - Plural Label: Resources
 - Record Name: Resource Name
 - Check the **Allow Reports** checkbox
 - Click Save.
- 4. Now create a custom tab. Click the **Home** tab, enter **Tabs** in Quick Find and select **Tabs**.
- 5. Under Custom Object Tabs, click New.
- 6. For **Object**, select **Resource**.
- 7. For **Tab Style**, select any icon.Leave all defaults as is. Click **Next**, **Next**, and **Save**.



- 1.

 2.

 3.
- 4. For Data Type, select *Number*, and click **Next**.
- 5. Field Label: Quantity
- 6. Ensure that there is always a number entered for this field by *checking the Required checkbox*.
- 7.
- 8.
- 9.



- 1. From the gear icon (🏚), click **Setup** to launch the setup page.
- 2. Click the **Object Manager** tab.
- 3. Click **Resource**. Under *Fields & Relationships*, click **New**.
- 4. For Data Type, select *Number*, and click **Next**.
- 5. Field Label: Quantity
- 6. Ensure that there is always a number entered for this field by *checking the Required checkbox*.
- 7. Leave the defaults for the remaining fields, and click **Next**.
- 8. Click **Next** again to accept the default field visibility and security settings.
- 9. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- 1. For Data Type, select *Percent*, and click **Next**.
- 2. Field Label: Utilization
- 3. Ensure that there is always a percentage entered for this field by *checking the Required checkbox*.
- 4. Leave the defaults for the remaining fields, and click **Next**.
- 5. Click **Next** again to accept the default field visibility and security settings.
- 6. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- 1. For Data Type, select Master-Detail Relationship, and click Next.
- 2. Select **Warship** from the *Related To* picklist, and click **Next**.
- 3. Field Label: Should default to Warship
- 4. Field Name: Warship
- 5. Leave the defaults for the remaining fields, and click **Next**.
- 6. Click **Next** again to accept the default field visibility and security settings.
- 7. Click **Next** to add the Warship field to the page layout.
- 8. Click **Save** to add the Warship field to the page layout, the related list of Warship records to the page layout, save the Warship field, and return to the Resource Custom Object page.



Supplies: Custom Object

Leave all defaults as is. Click **Next**, **Next**, and **Save**.

- 1. 3. Label: Supply Plural Label: Supplies Check the **Allow Reports** checkbox Click Save. Now create a custom tab. 5. 6. For **Tab Style**, select any icon.
- isobar

Supplies: Custom Object

- Click Object Manager tab next to the Home tab.
- Click on Create dropdown at the right side and then select Custom Object.
- 3. On the Custom Object Definition page, create the object as follows:
 - Label: Supply
 - Plural Label: Supplies
 - Check the Allow Reports checkbox
 - Click Save.
- 4. Now create a custom tab. Click the **Home** tab, enter **Tabs** in Quick Find and select **Tabs**.
- 5. Under Custom Object Tabs, click New.
- For Object, select Supply.
- 7. For **Tab Style**, select any icon.
- 8. Leave all defaults as is. Click **Next**, **Next**, and **Save**.



- 1.

 2.

 3.
- 4. For Data Type, select *Number*, and click **Next**.
- 5. Field Label: Quantity
- 6. Ensure that there is always a number entered for this field by *checking the Required checkbox*.
- 7. We want to encourage our users to order at least 2 of any supply (we always like to have a back up), so we'll set the *Default Value* to **2**.
- 8. Leave the defaults for the remaining fields, and click **Next**.
- 9. Click **Next** again to accept the default field visibility and security settings.
- 10. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- 1. From the gear icon (🔯), click **Setup** to launch the setup page.
- 2. Click the **Object Manager** tab.
- 3. Click **Supplies**. Under *Fields & Relationships*, click **New**.
- 4. For Data Type, select *Number*, and click **Next**.
- 5. Field Label: Quantity
- 6. Ensure that there is always a number entered for this field by checking the Required checkbox.
- 7. We want to encourage our users to order at least 2 of any supply (we always like to have a back up), so we'll set the *Default Value* to **2**.
- 8. Leave the defaults for the remaining fields, and click **Next**.
- 9. Click **Next** again to accept the default field visibility and security settings.
- 10. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- 1. For Data Type, select Currency, and click Next.
- 2. Field Label: Unit Cost
 - Length: 16
 - Decimal Places: 2
- 3. Ensure that there is always a number entered for this field by *checking the Required checkbox*.
- 4. Leave the defaults for the remaining fields, and click **Next**.
- 5. Click **Next** again to accept the default field visibility and security settings.
- 6. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- For Data Type, select Formula, and click Next.
- 2. Field Label: **Total Cost**
 - Decimal Places: 2
 - Field Name: Total Cost
- Click Next.
- 4. Enter the following for the formula: **Quantity_c** * **Unit_Cost_c**.
- Click the Check Syntax button to make sure the formula has the correct syntax, and click Next.
- 6. Ensure that there is always a number entered for this field by checking the Required checkbox.
- 7. Leave the defaults for the remaining fields, and click **Next**.
- 8. Click **Next** again to accept the default field visibility and security settings.
- 9. Click **Save & New** to add the Quantity field to the page layout, save the Quantity field, and return to the first step of the wizard.



- 1. For Data Type, select Master-Detail Relationship, and click Next.
- 2. Select **Warship** from the *Related To* picklist, and click **Next**.
- 3. Field Label: Should default to Warship
- 4. Field Name: Warship
- 5. Leave the defaults for the remaining fields, and click **Next**.
- 6. Click **Next** again to accept the default field visibility and security settings.
- 7. Click **Next** to add the Warship field to the page layout.
- 8. Click **Save** to add the Warship field to the page layout, the related list of Warship records to the page layout and save the Warship field, and return to the Supply Custom Object page..



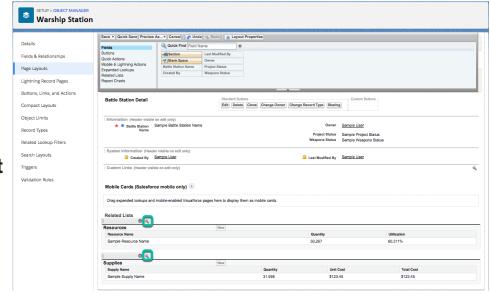
Modify User Experience



Modify User Experience

Modify the Warship Page Layout

- From the gear icon (), click Setup to launch the setup page.
- 2. Click the **Object Manager** tab.
- 3. Click Warship.
- 4. Select the **Page Layouts** and select the **Warship Layout**.
- Scroll down to the Warship Detail section and *drag* the **Project** Status field to the right column (below Owner field).
- 6. Drag the Weapons Status field to the right column (below Project Status field).



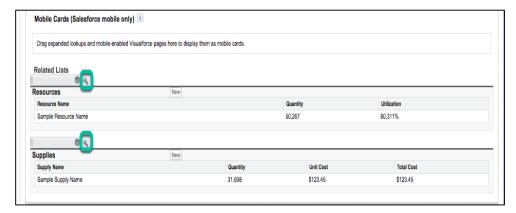


Modify User Experience

Modify the Warship Page Layout

Edit the layout for the related lists to include more info on the page.

- 1. Click the wrench icon next to the **Resources** *label* in the related list to bring up the properties editor modal.
- 2. Add the **Quantity** and **Utilization** field to the right side by selecting them and clicking the Add arrow in the middle.
- Click OK to close the modal.
- 4. Do the same thing for the **Supplies** related list and add the **Quantity**, **Unit Cost**, and **Total Cost** fields, in that order..





Add data



Add Some Warship Data

- 1. From the App Launcher), select **Warship** app.
- 2. Click the **Warships** tab.
- 3. Create a New record **F-330 Vasco da Gama**.
- 4. Under the Related tab, click **New** on the **Resources** list.
- 5. Enter the following Resource Name options one at a time (click Save & New after entering each record). Choose the Quantity and Utilization of your choice (see image for reference).
 - Admiral
 - Construction worker
 - Left-handed monkey wrench adjuster
 - Robert the foreman
 - Sandwich maker
 - Massage therapist



Add Some Warship Data

For the *Obliteration Station* record, you need to add the Supplies. Under the *Related tab*, click **New** on the **Supplies** list.

- Enter the following Supply Name options one at a time (click Save & New after entering each record).
 Choose the Quantity and Unit Cost of your choice:
 - Light bulbs
 - Really big gun
 - Donuts
 - Hot glue gun
 - Cantina band instruments
 - UV protecting eyewear (that is, sunglasses)
 - Steel
 - Toilet paper



Sobar