



Oracle Application Express: Developing Database Web Applications

Hands-On-Labs Guide

Unit 8: Creating and Using Forms

This exercise includes two hands-on-labs.

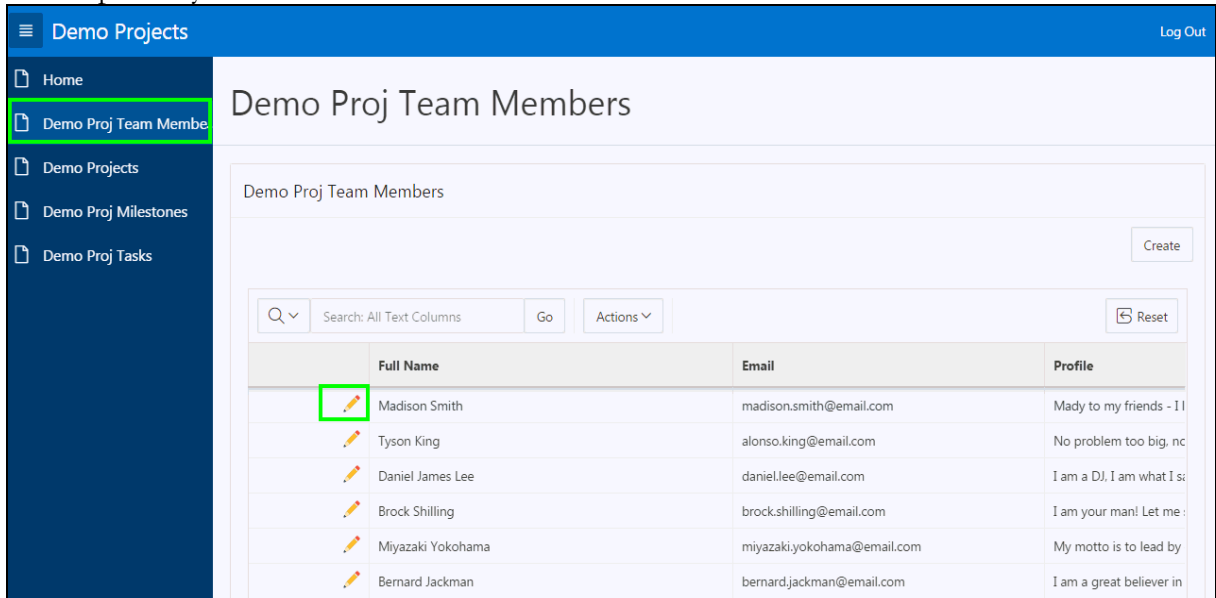
HOL 8-1 Updating the Form Pages in the Demo Projects Application: In this hands-on-lab, you update the default form pages in the Demo Projects application.

HOL 8-2 Creating a Form on a Table and Linking a Report: In this hands-on lab, you create a form on the PROJECT_BUDGET table. Then, you create a classic report on the PROJECT_BUDGET table and link this report to the form. This lab utilizes the Budget App application.







HOL 8-1 Updating the Form Pages in the Demo Projects Application

In the Demo Projects application, you create a report that allows each Team Member to see their outstanding tasks.

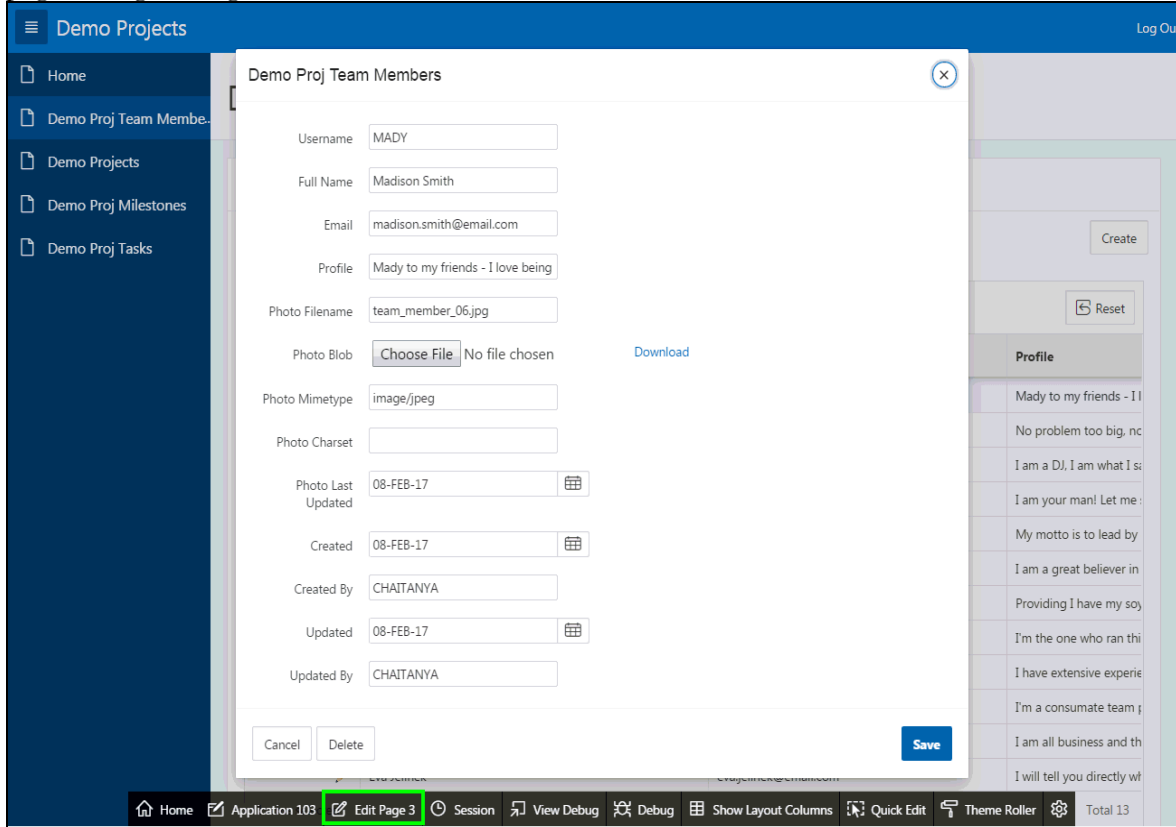
1. Navigate to **App Builder** and run the **Demo Projects** application.
2. In the navigation menu, click **Demo Proj Team Members**.
Then, click the **Edit** icon (pencil), next to a team member's name to view the modal form page, for the person you selected.



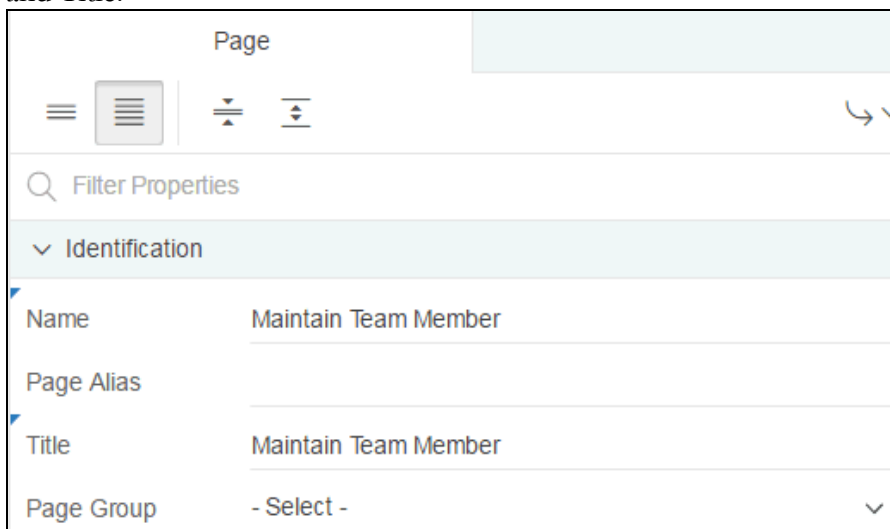
The screenshot displays the Oracle APEX interface for the 'Demo Projects' application. The navigation menu on the left includes 'Home', 'Demo Proj Team Membe' (highlighted), 'Demo Projects', 'Demo Proj Milestones', and 'Demo Proj Tasks'. The main content area is titled 'Demo Proj Team Members' and features a 'Create' button. Below the title is a search bar with a search icon, a search input field containing 'Search: All Text Columns', a 'Go' button, and an 'Actions' dropdown menu. A 'Reset' button is also present. The table below has the following data:

	Full Name	Email	Profile
	Madison Smith	madison.smith@email.com	Mady to my friends - I I
	Tyson King	alonso.king@email.com	No problem too big, nc
	Daniel James Lee	daniel.lee@email.com	I am a DJ. I am what I s
	Brock Shilling	brock.shilling@email.com	I am your man! Let me
	Miyazaki Yokohama	miyazaki.yokohama@email.com	My motto is to lead by
	Bernard Jackman	bernard.jackman@email.com	I am a great believer in

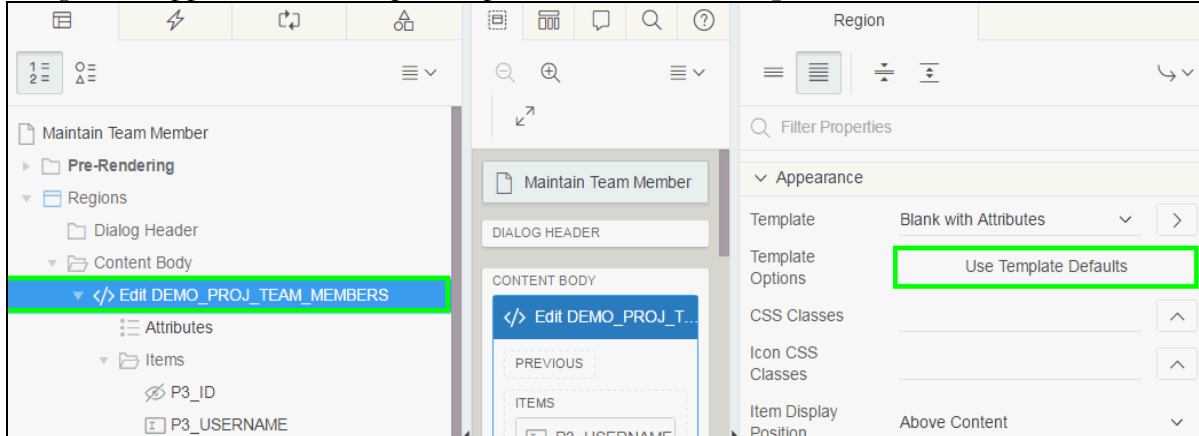
- On the Developer Toolbar at the bottom of the page, click **Edit Page 3** to jump to the modal page in Page Designer.



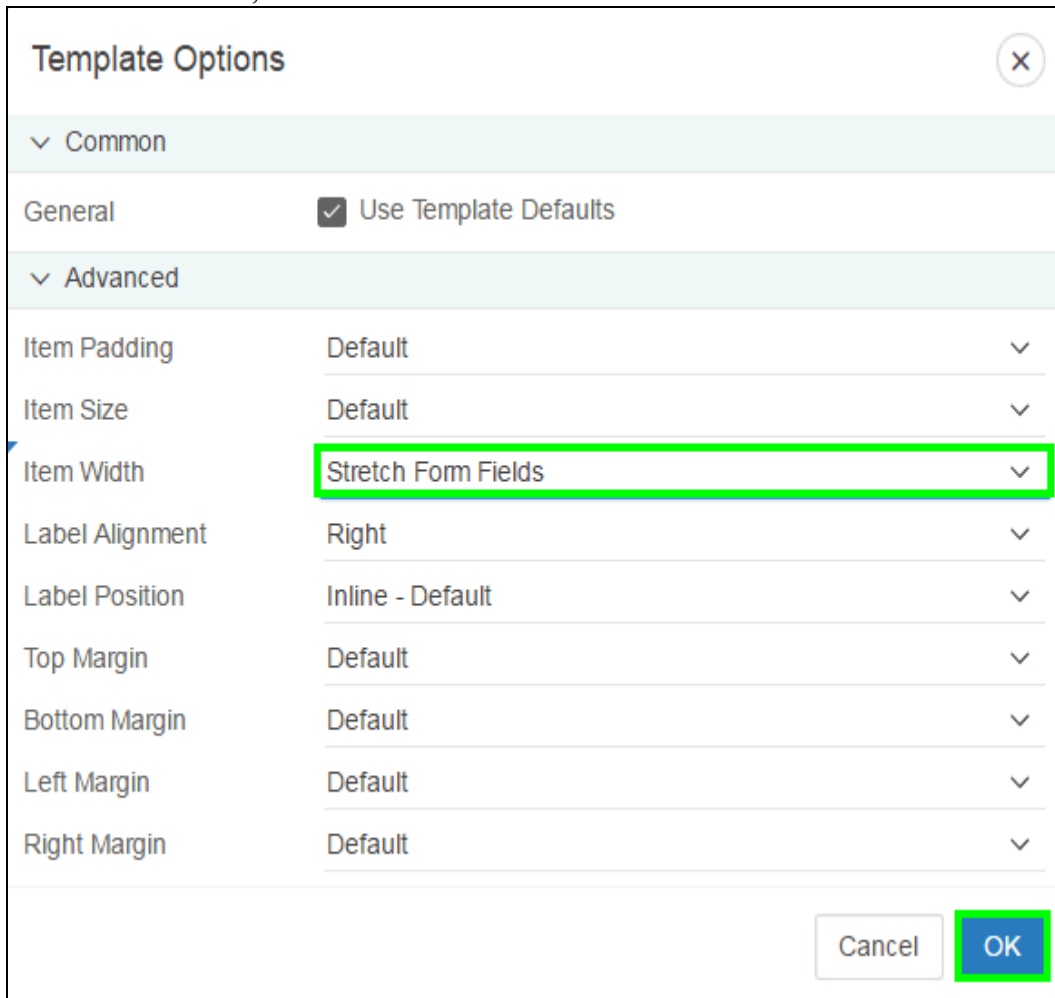
- In the property editor > Page > Identification, enter **Maintain Team Member** for both Name and Title.



- Under Rendering, select the `Edit_Demo_Proj_Team_Members` region. In the property editor, navigate to `Appearance > Template Options`. Click **Use Template Defaults**.



- In the Template Options dialog, under Advanced, for Item Width, select **Stretch Form Fields** and click **OK**. Then, click **Save**.



- Now, modify the default Project form page to be more visually appealing and consistent with how the Maintain Team Member page was improved. Navigate to the application runtime environment. In the navigation menu, click **Demo Projects**.
- Click one of the Project names, to open a modal dialog.

Demo Projects

Home
Demo Proj Team Membe...
Demo Projects
Demo Proj Milestones
Demo Proj Tasks

Create

Search: All Text Columns Go Actions Reset

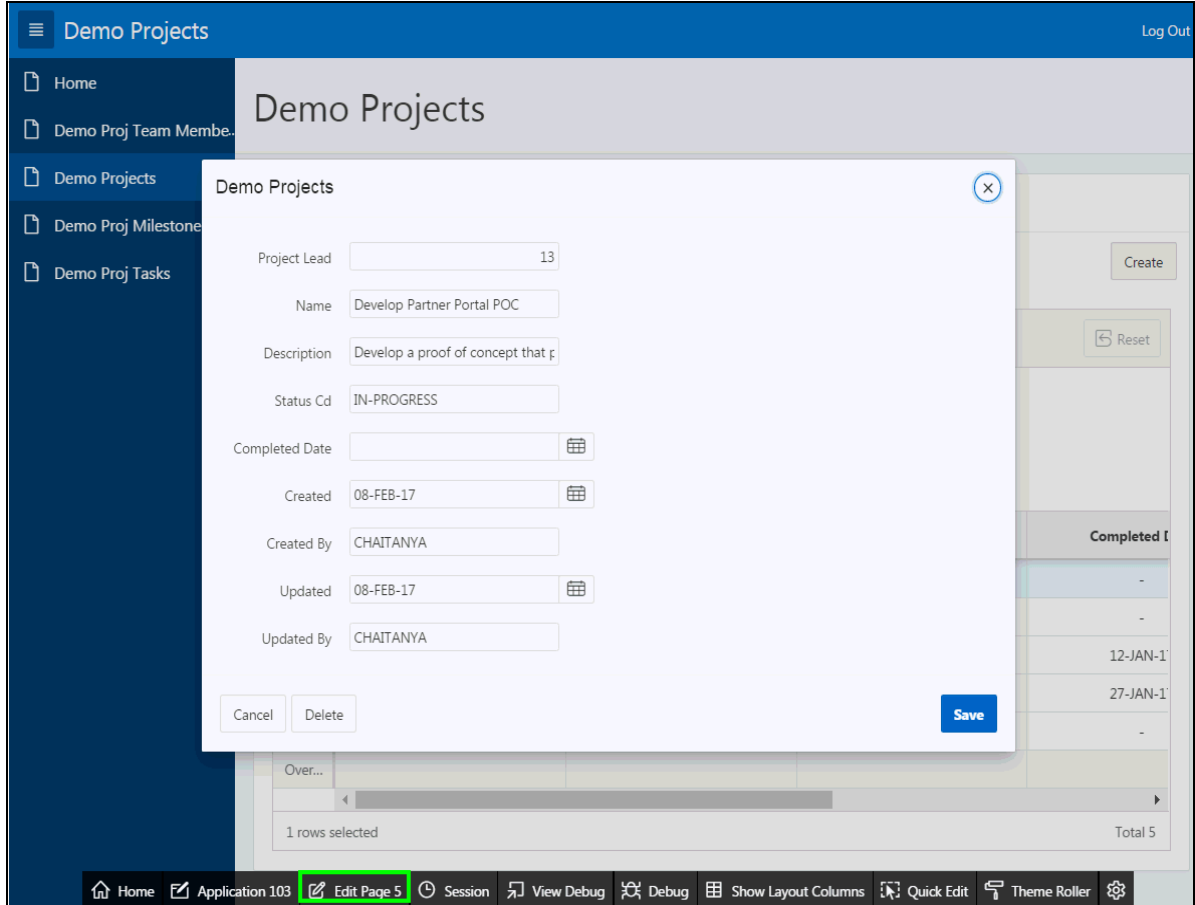
Sum (ID) x
Sum (Milestones) x
Sum (Tasks) x

Name	Project Lead	Status Cd	Completi
Develop Partner Portal POC	13	IN-PROGRESS	-
Develop Production Partner Portal	1	ASSIGNED	-
Configure Web Development Too...	13	COMPLETED	12-JAI
Train Developers on Web develop...	1	COMPLETED	27-JAI
Migrate Legacy Applications	10	IN-PROGRESS	-

Over...

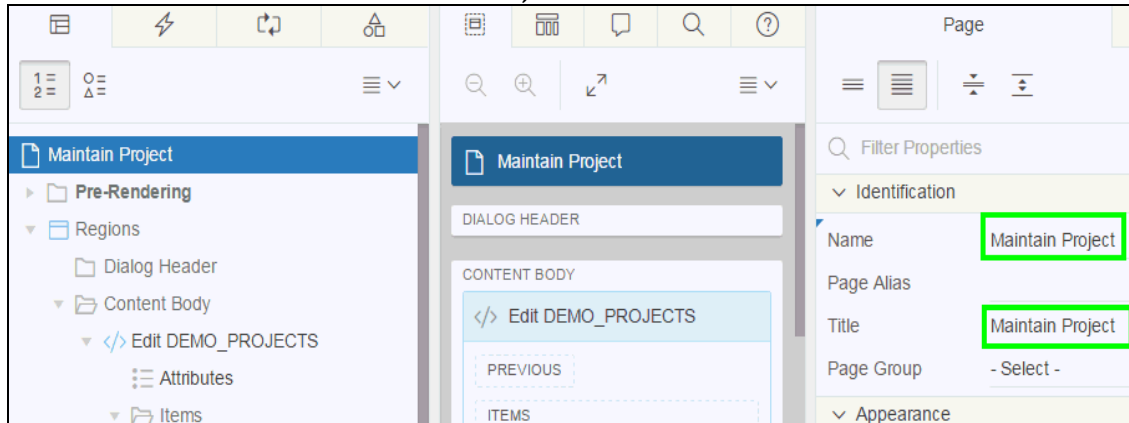
1 rows selected Total 5

9. In the runtime environment, after selecting a project, in the Developer Toolbar, click **Edit Page 5**.



10. In the Property Editor:

- Identification: Name - enter **Maintain Project**
- Identification: Title - enter **Maintain Project**



Scroll down to Navigation and for Cursor Focus, select **First item on page**. Then, click **Save**.

The screenshot shows the Oracle APEX page editor interface. At the top, there is a toolbar with various icons and a 'Save' button highlighted with a green border. Below the toolbar, the 'Page' section is visible. The 'Filter Properties' section includes fields for 'Maximum Width', 'Attributes', and 'CSS Classes'. The 'Chained' property is set to 'Yes'. The 'Navigation Menu' section is expanded, showing 'Override User Interface Level' set to 'No'. The 'Navigation' section is also expanded, and the 'Cursor Focus' property is set to 'First item on page', which is highlighted with a green border. The 'Warn on Unsaved Changes' property is set to 'Yes'.

11. Modify the default Milestone form page to be more visually appealing. In the Demo Projects runtime environment, navigate to the Demo Proj Milestones page and open one of the records

by clicking the edit icon (pencil).

The screenshot shows the 'Demo Proj Milestones' page in Oracle APEX. The page has a sidebar with navigation links: Home, Demo Proj Team Membe..., Demo Projects, Demo Proj Milestones (selected), and Demo Proj Tasks. The main content area displays a table of milestones. The table has the following data:

Project Id	Name	Due Date	Tasks
2	Train the Trainers	18-JAN-17	5
2	All Developers Trained	22-JAN-17	2
3	Move Data Structures	27-JAN-17	3
3	Redevelop HR Applicatio...	04-FEB-17	3
3	Redevelop Project Tracki...	10-FEB-17	3
4	Define Requirements	13-FEB-17	3

A green box highlights the edit icon (pencil) in the first row of the table.

12. In the Developer Toolbar, click **Edit Page 7**.

The screenshot shows the 'Demo Proj Milestones' page with an edit dialog box open. The dialog box contains the following fields:

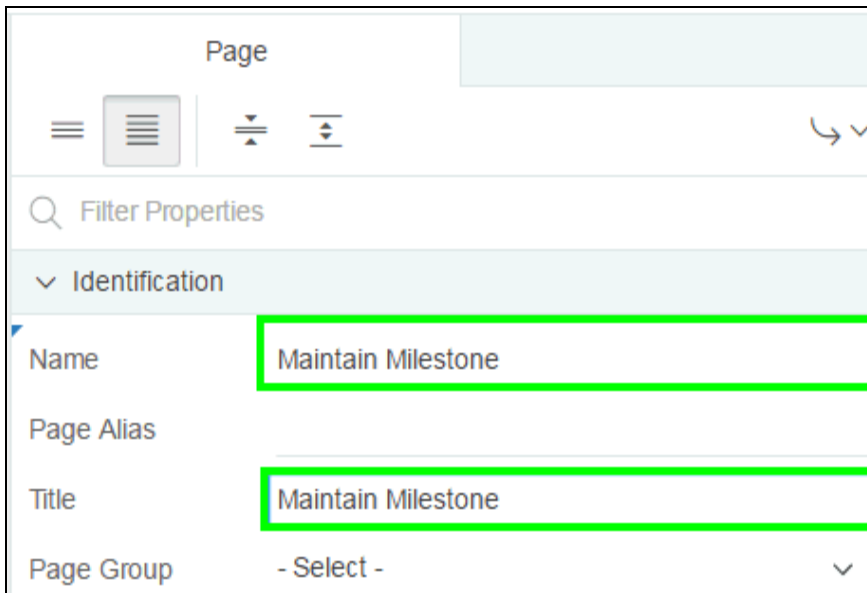
- Project Id: 2
- Name: Train the Trainers
- Description: Rather than all developers being 1
- Due Date: 18-JAN-17
- Created: 08-FEB-17
- Created By: CHAITANYA
- Updated: 08-FEB-17
- Updated By: CHAITANYA

Buttons: Cancel, Delete, Save.

The Developer Toolbar at the bottom shows the 'Edit Page 7' button highlighted with a green box.

13. In the Property Editor:

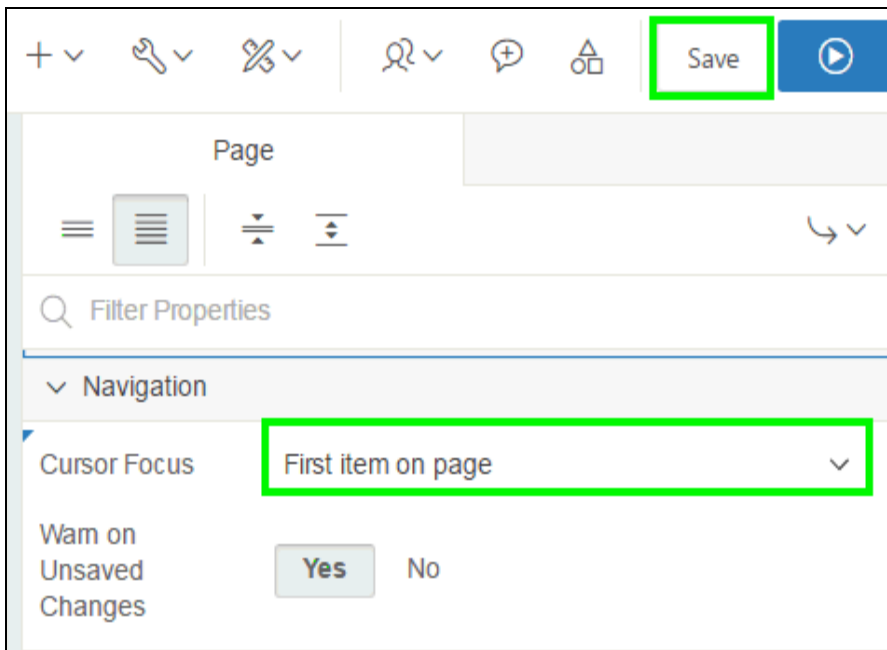
- Identification: Name - enter **Maintain Milestone**
- Identification: Title - enter **Maintain Milestone**



The screenshot shows the 'Page' property editor. The 'Identification' section is expanded, showing the following fields:

Name	Maintain Milestone
Page Alias	
Title	Maintain Milestone
Page Group	- Select -

Scroll down to Navigation and for Cursor Focus, select **First item on page**. Then, click **Save**.

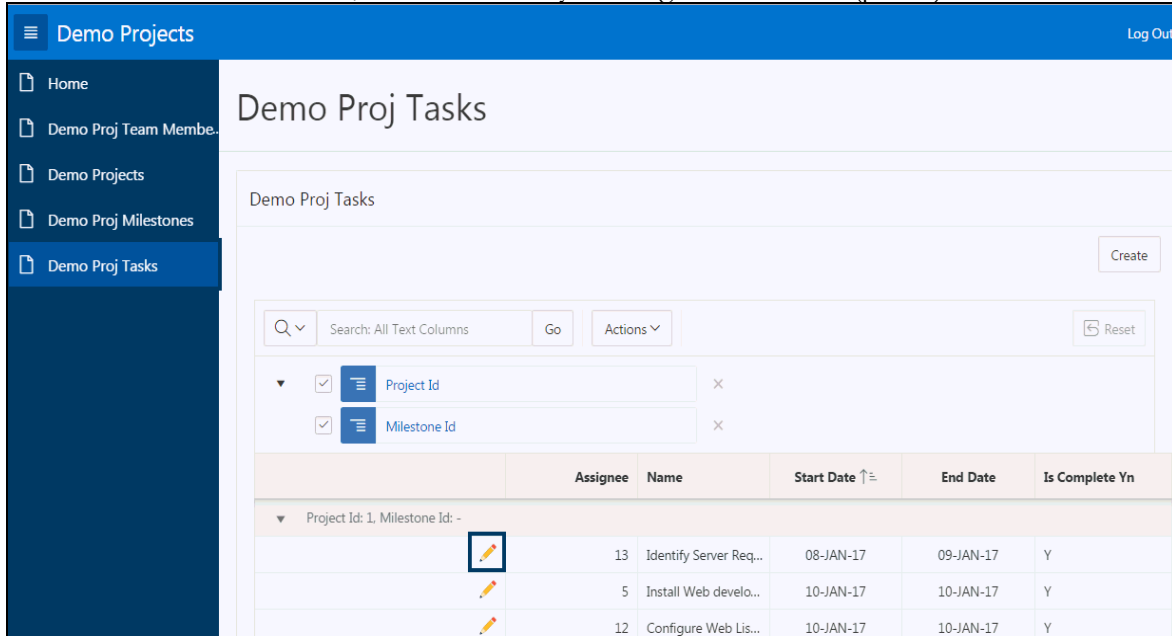


The screenshot shows the 'Page' property editor. The 'Navigation' section is expanded, showing the following fields:

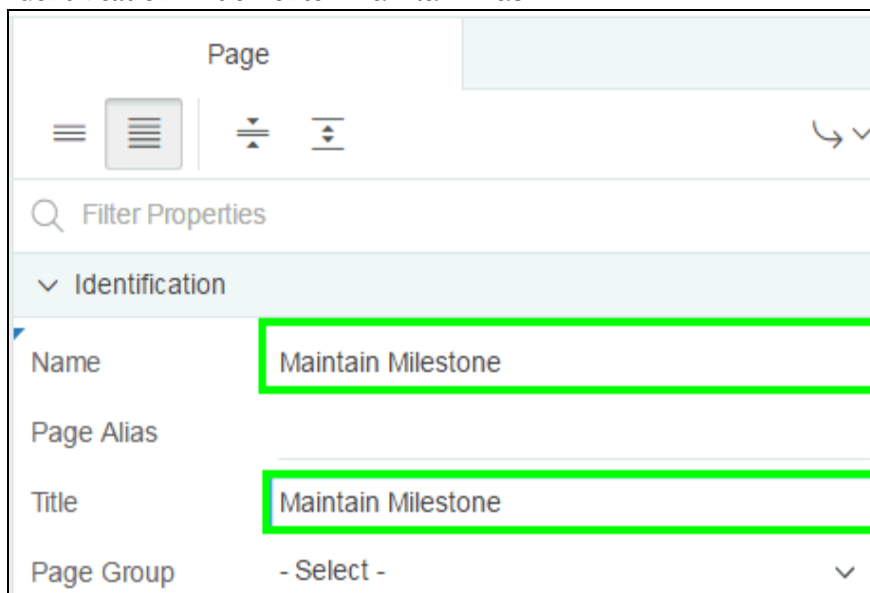
Cursor Focus	First item on page
Warn on Unsaved Changes	<input checked="" type="radio"/> Yes <input type="radio"/> No

The 'Save' button is highlighted in green.

14. Modify the default Task form page to be more visually appealing. In the Demo Projects runtime environment, navigate to the Demo Proj Tasks page and open one of the records by clicking the edit icon (pencil).
15. In the runtime environment, view a record by clicking the Edit icon (pencil) for a task.

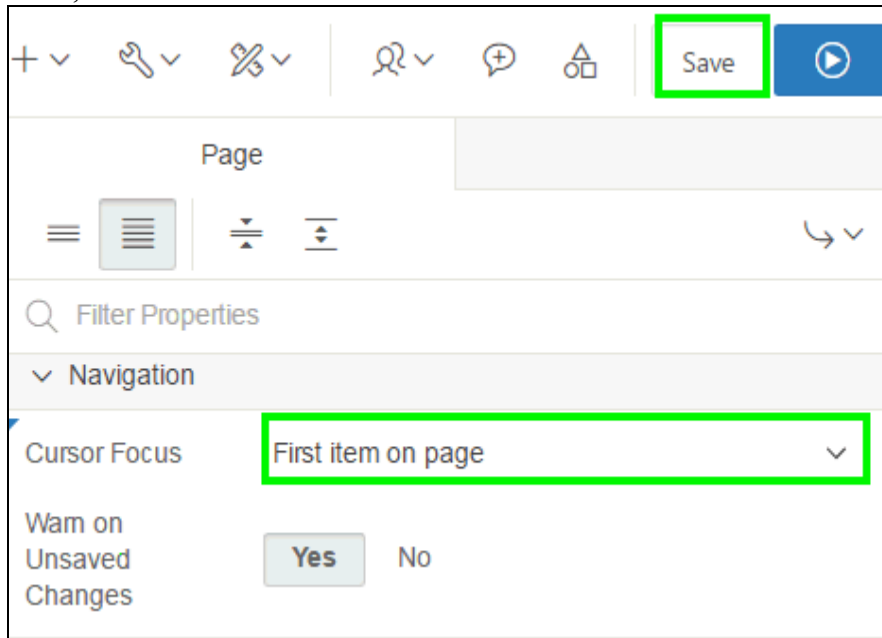


16. In the Developer Toolbar, click **Edit Page 9**.
17. In the Property Editor:
 - Identification: Name - enter **Maintain Task**
 - a. Identification: Title - enter **Maintain Task**



Scroll down to Navigation and for Cursor Focus, select **First item on page**.

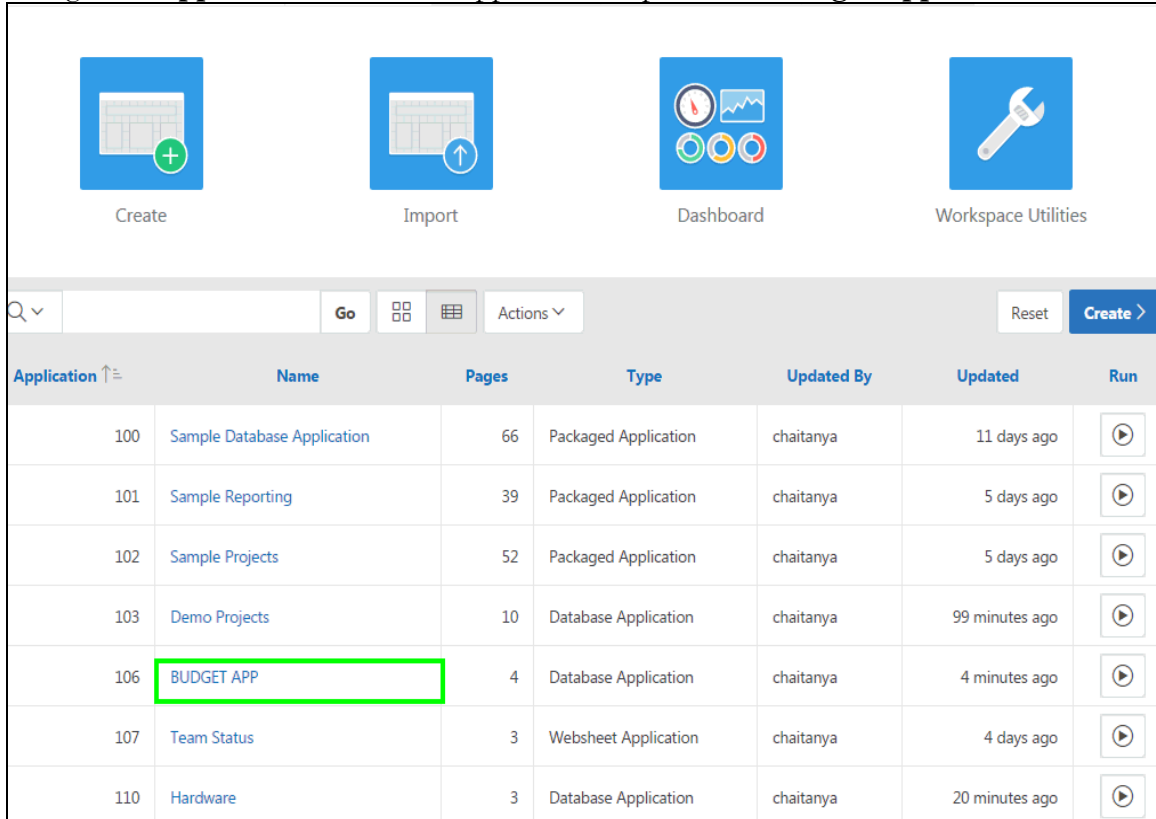
Then, click **Save**.



HOL 8-2: Creating a Form on a Table and Linking a Report

In this lab, you first create a classic report on the PROJECT_BUDGET table. Then, you create a form on the PROJECT_BUDGET table. Finally, you link the classic report to the form.

1. Navigate to **App Builder** and in the applications report, click **Budget App**.

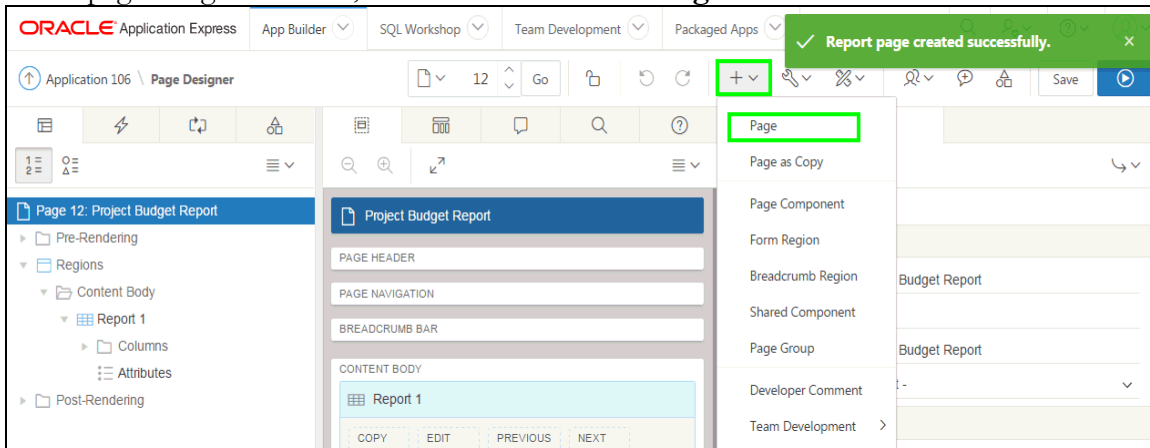


The screenshot shows the Oracle APEX Applications page. At the top, there are four icons: Create, Import, Dashboard, and Workspace Utilities. Below these is a search bar with a 'Go' button and a 'Create' button. The main content is a table of applications.

Application ↑	Name	Pages	Type	Updated By	Updated	Run
100	Sample Database Application	66	Packaged Application	chaitanya	11 days ago	
101	Sample Reporting	39	Packaged Application	chaitanya	5 days ago	
102	Sample Projects	52	Packaged Application	chaitanya	5 days ago	
103	Demo Projects	10	Database Application	chaitanya	99 minutes ago	
106	BUDGET APP	4	Database Application	chaitanya	4 minutes ago	
107	Team Status	3	Websheet Application	chaitanya	4 days ago	
110	Hardware	3	Database Application	chaitanya	20 minutes ago	

2. The application home page appears. Now, create a Classic Report on the PROJECT_BUDGET table. Click **Create Page** and then perform the following steps:
 - a) Select **Report** and click **Next**
 - b) Select **Classic Report** and click **Next**
 - c) Enter **Project Budget Report** for Page Name and click **Next**
 - d) For Navigation, select **Create a new navigation menu entry** and click **Next**
 - e) Select **PROJECT_BUDGET** for Table / View Name and click **Create**.
3. The report page is created successfully. Now, create a form on the PROJECT_BUDGET table. Perform the following steps:

- a) In the page designer toolbar, click **Create** and select **Page**.



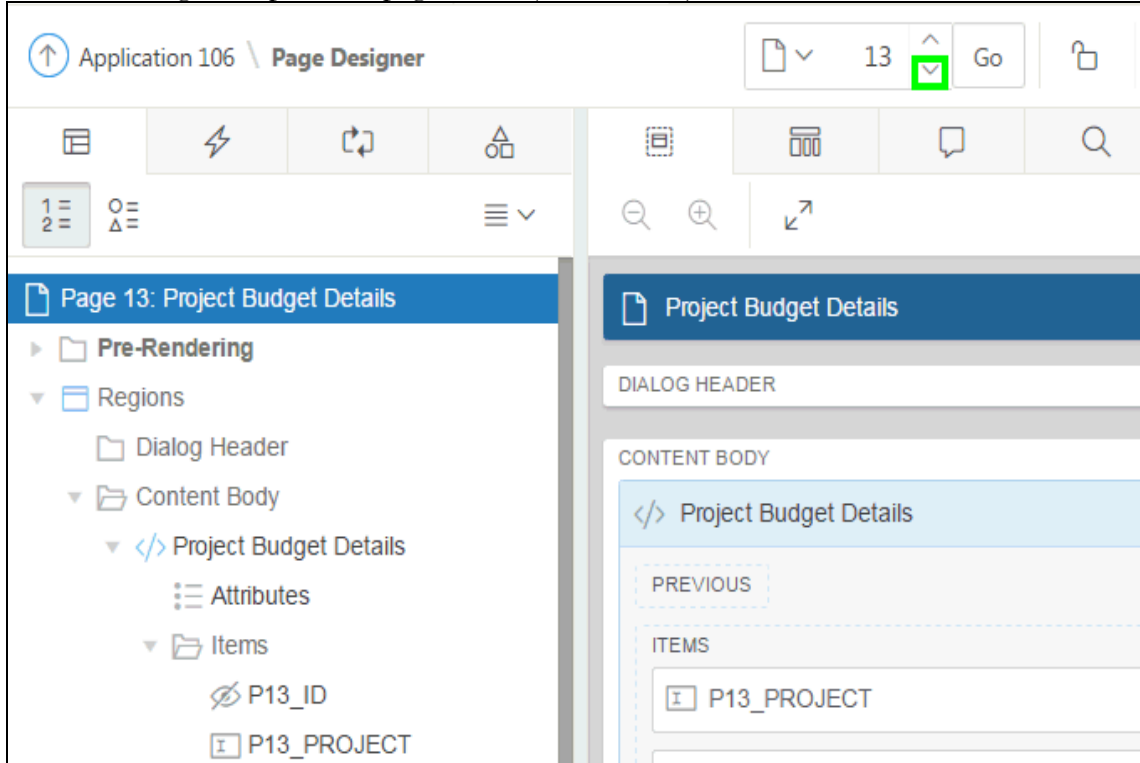
- b) Select **Form** and click **Next**.
 c) Select **Form on a Table** and click **Next**.
 d) Enter **Project Budget Details** for Name, select **Modal Dialog** for Page Mode and click **Next**.
 e) Click **Next**.
 f) Select **PROJECT_BUDGET** for Table / View Name, ensure that all the columns selected to be displayed and click **Next**.
 g) Click **Create**.

The form page is created successfully.

4. The form you just created is a dialog page and so you cannot run it directly. If you click the Save and Run Page, you see this message:



- You want to navigate to the Project Budget Report page in the page designer. In the toolbar, click the Navigate to previous page arrow (down arrow).



- Under Rendering > Regions, select **Report 1**. In the property editor, replace the existing title with **Project Budget Report**.
- Under Rendering, expand **Columns** and select **ID**.

8. In the property editor, select **Link** for Type. Scroll down and locate Link > Target. Click **No Link Defined**.

The screenshot shows the 'Column' property editor in Oracle APEX. The column name is 'ID'. The 'Type' is set to 'Link'. The 'Target' is set to 'No Link Defined'. The 'Type' and 'Target' fields are highlighted with a red border.

Column	
Column Name	ID
Type	Link
▼ Heading	
Heading	Id
Alignment	start
▼ Layout	
Sequence	1
Column Alignment	start
▼ Appearance	
Format Mask	
▼ Link	
Target	No Link Defined

9. In the Link Builder – Target dialog, select the following:
- Target > Type: **Page in this application**
 - Target > Page: Select the form page, Project Budget Details
 - Set Items > Name: **P<n>_ID** where *n* is the page number of the form page
 - Set Items > Value: **#ID#**

Click **OK**.

Link Builder - Target ✕

Target

Type

Page

Set Items

Name	Value
<input type="text" value="P13 ID"/>	<input type="text" value="#ID#"/>
<input type="text"/>	<input type="text"/>

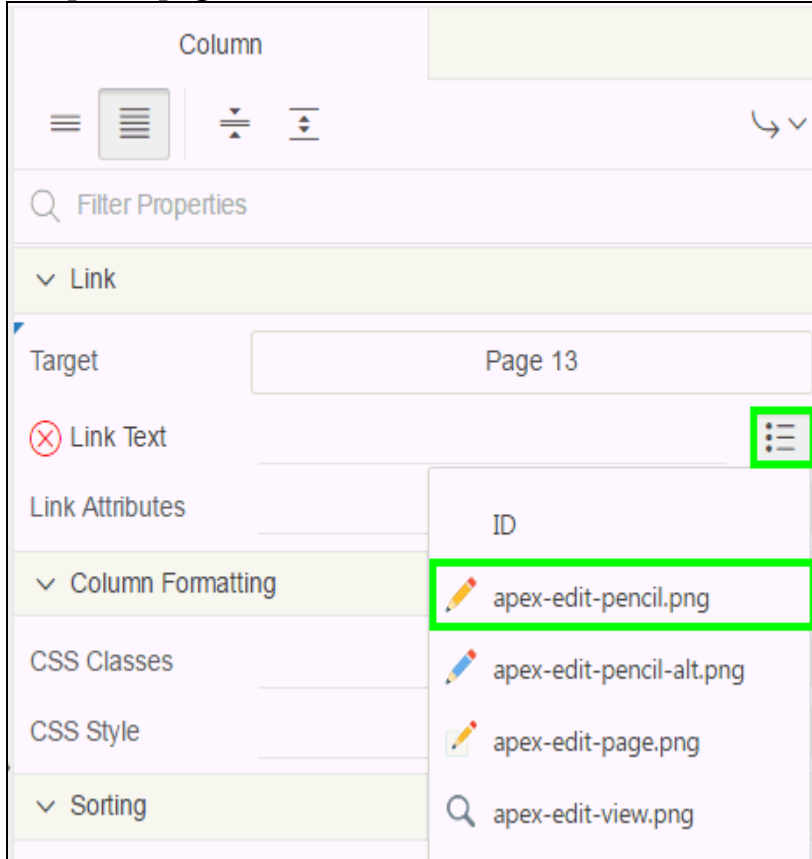
Clear Session State

Clear Cache

Reset Pagination Yes No

> Advanced

10. In the property editor, navigate to Link. For Link Text, click the Quick Pick and select **apex-edit-pencil.png**.



11. Click **Save**. Then, click **Save and Run Page**.
12. The Project Budget Report page is displayed.
Note: You might have to log in to the application using username and password. Then, in the navigation menu, click Project Budget Report.

Click the Edit icon (pencil) for any row, and you see that the form dialog page is displayed.

The screenshot displays the 'Project Budget Report' interface. The table below represents the data shown in the background:

Id	Project	Task Name	Start Date	End Date	Status	Assigned To	Cost	Budget
	ACME Web Express Configurati	Create pilot workspace	02-FEB-	02-FEB-	Closed	John	100	100
	ACME Web Configurati						200	300
	ACME Web Configurati	Project: ACME Web Express Configuration					300	100
	Bug Track	Task Name: Create pilot workspace					3000	2000
	Bug Track	Start Date: 02-FEB-17					750	1500
	Bug Track	End Date: 02-FEB-17					100	100
	Bug Track	Status: Closed					1000	2000
	Bug Track	Assigned To: John Watson					5000	10000
	Convert Sp	Cost: 100						500
	Convert Sp	Budget: 100					250	300
	Discussion	Cancel Delete						
	Discussion Forum	Install ACME Web Express application on internet server	01-JUL-17	01-JUL-17	Closed	Hank Davis	100	100



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