Lightning component development using LWC\_Day 4

Agenda

Requirement handling in the “Certification-Mobile” case study.

R4. Create component to add into “Details” tab of the application. The component should have buttons to show details of “Certifications” and “Courses” in the body of the component when user clicks on corresponding buttons.

The wireframe should be like below:

**Certifications**

**Courses**

Steps:

1. Prepare the “detailsTab” wireframe.
2. Prepare component to show “certifications”
3. Prepare component to show “courses”
4. Add the components dynamically when used clicks on the buttons in “detailsTab”

R5: create lightning component for the “Trainings” tab in application for performing all actions related to “Course Deliveries” in training operations.

Create “trainingsTab” with menu and the menu should have options to work with different actions on the object as below:

New – for inserting new records in course delivery

Search – for searching delivery records based on which location the training is planned

Display – for showing different delivery records based in “status”

Clear – for clearing the component body and show the records from course delivery.

Wireframe for the trainings tab should be like below:

**Trainings**

Creating Wireframe with Menu and Menu items.

R6: create lightning component to display information from “Course Delivery” object and show in the body of the “trainingsTab” when the tab is opened in the application.

The fields what needed to be displayed are:

Delivery No

Course Name

Location

Date

Show the “Scheduled deliveries” in the table format in body of trainingsTab.

Hint:

Lightning datatable cannot show fields from the “parent” object of the query linked with table

So, developer need to apply workaround to show (CourseName) which is field from “parent” object of course delivery.

R7: when user selects “new” option in the menu, form need to open for inserting new record into “Course Delivery” object. When the records gets loaded, message should be displayed in the form indicating successful transaction.

Solution:

Step 1: prepare the form for loading records

Step 2: launch the form when user clicks on “new” option from menu.

**Preparing the form**

Approach 1:

Prepare form using custom lightning component using form controls in the framework and handle transaction manually using Apex methods and process success and fail statements.

Approach 2:

Use lightning “dataservice” components for having the form created from the object and deal with events of the dataservice to Implements success and fail statement.

Data Service components are pre-built salesforce forms which will be bound to objects to create form with submit and cancel buttons with in-built transaction logic without using “apex methods”

Advantage of Data service components:

* No Apex methods
* Fields in form will be getting the type from Salesforce objects
* Transactions execute Async using pre-defined events

Drawback of Data Service:

* Forms can process single record transactions

Ex:

Lightning-record-form

Lightning-record-view-form

Lightning-record-edit-form

R8: implement functionality for “search” option in menu as below:

User needs to search for location and display all the trainings planned in that location using “search”.

Create a lightning component that will have search input control which accepts the location for searching. ----- locationSearch

Create another lightning component that should display all trainings planned in the location ---- locationTrainings

Embed “locationSearch” component into “locationTrainings” and data entered in child should be sent to the parent component for processing and displaying the records.

Wireframe as below:

Solution:

**Custom Events**

It is developer defined event where developer can create event in the “child component” and associate data with event and dispatch event from the child component.

The parent component should have “handler” for the event and data can be processed in the parent component for dealing with business req.

Points to remember:

1. Event name should be always in lower case.
2. Associate primitive types as data to be bound with event for communicating between components
3. Custom events in LWC are equivalent to “Component Events” of AURA framework for data communication between child to parent components in the hierarchy and hence it is called “event bubbling” mechanism.
4. By default, in “Custom events” of LWC, data from child will be sent to immediate parent component and if developer wants to send the data to all parent components in hierarchy, “bubbles:true” parameter can be passed while creating event in framework.