

Phase 6: User Interface Development Report

Objective:

To design and enhance the Salesforce Lightning Experience interface for better user experience, data visibility, and interaction using Lightning App Builder, LWC, and Apex integration.

1. Lightning App Builder

- Customized the **Sports Rental Management** Lightning application using the Lightning App Builder.
 - Added components such as:
 - **Record Detail and Related Lists**.
 - **Recent Contacts** component.
 - **Standard Navigation Bar** for quick access to Contacts, Equipment, and Rental Plans.
 - Configured the app to display “**My Contacts**” view with a summary section at the top (Total Contacts, No Activity, Idle, etc.).
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2. Record Pages

- Customized the **Contact Record Page** to include:
 - Key fields at the top for better visibility.
 - Related lists like Account, Activities, and Emails.
 - Action buttons (Email, Call, Task) in the Actions column for quick communication.
 - Made use of **Dynamic Components** to show relevant sections based on record data.
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3. Tabs

- Created and customized application tabs for:
 - **Contacts**
 - **Rental Plans**
 - **Equipments**
 - **Rental Agreements**
 - **Maintenances**
 - **Payments**
 - Ensured each tab has consistent navigation for better user experience.
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4. Home Page Layouts

- Configured the **Home Page** to display:
 - Quick access to Contacts list.
 - Search bar at the top.
 - Key metrics and record counts in a visually highlighted section.
 - Created custom components to show KPIs like:
 - Total Contacts
 - No Activity
 - Overdue
 - Upcoming
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5. Utility Bar

- Added a **Utility Bar** to the bottom of the app for:
 - Global Search
 - Notes
 - Recent Items
 - Quick Create Actions (e.g., New Contact or New Agreement)
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6. Lightning Web Components (LWC)

- Developed LWC components for dynamic UI sections:
 - Displaying contact statistics dynamically.
 - Search and filter options.
 - Used **Events in LWC** to:
 - Handle user interactions.
 - Pass data between components.
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7. Apex with LWC

- Created **Apex Controller** to:
 - Fetch contact and account details from the database.
 - Implement server-side filtering for performance.
- Used **Wire Adapters** to get real-time data from Apex into LWC.

- Used **Imperative Apex Calls** for on-demand fetching of filtered data.
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8. Events in LWC

- Implemented:
 - Custom Events** for child-to-parent communication (e.g., filter updates).
 - Pub/Sub pattern** for sibling component communication.
 - Ensured smooth UI updates without page reloads.
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9. Navigation Service

- Integrated **Navigation Service** in LWC to:
 - Navigate from Contact list to specific record pages.
 - Open related Account records.
 - Enable quick transition between tabs without page refresh.

The screenshot shows a browser window with multiple tabs open, including 'Contact Intelligence View', 'Process Builder | Salesforce', 'Classic Email Templates | S...', 'Approval Needed: Rental | X', and 'New Tab'. The main content area displays a Lightning component titled 'My Contacts'. The component has a header with navigation links: 'Sports Rental Mana...', 'Contacts', 'Rental Plans', 'Equipments', 'Rental Agreements', 'Maintenances', 'Payments', 'Reports', and 'Dashboards'. Below the header is a search bar labeled 'Search...'. A summary bar shows 'Total Contacts: 10' and filters for 'No Activity', 'Idle', 'No Upcoming', 'Overdue', 'Due Today', and 'Upcoming'. The main list area shows 10 items, each with a checkbox, name, title, account name, last activity, and actions (email, phone, etc.). The contact 'Rahul Sharma' is highlighted in blue, indicating it is selected. At the bottom of the list is a pagination element with arrows.