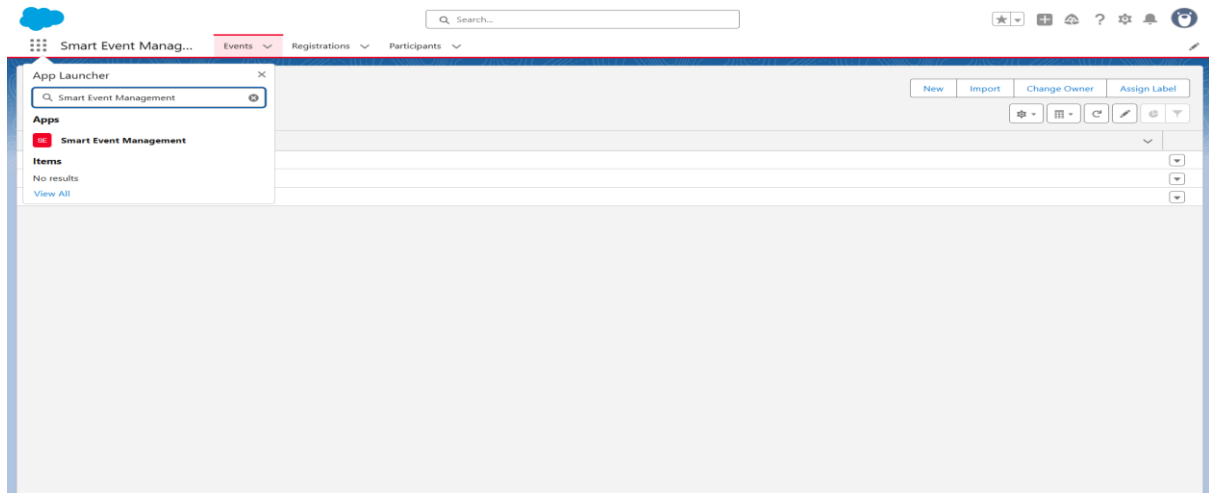


# PHASE 6: USER INTERFACE DEVELOPMENT

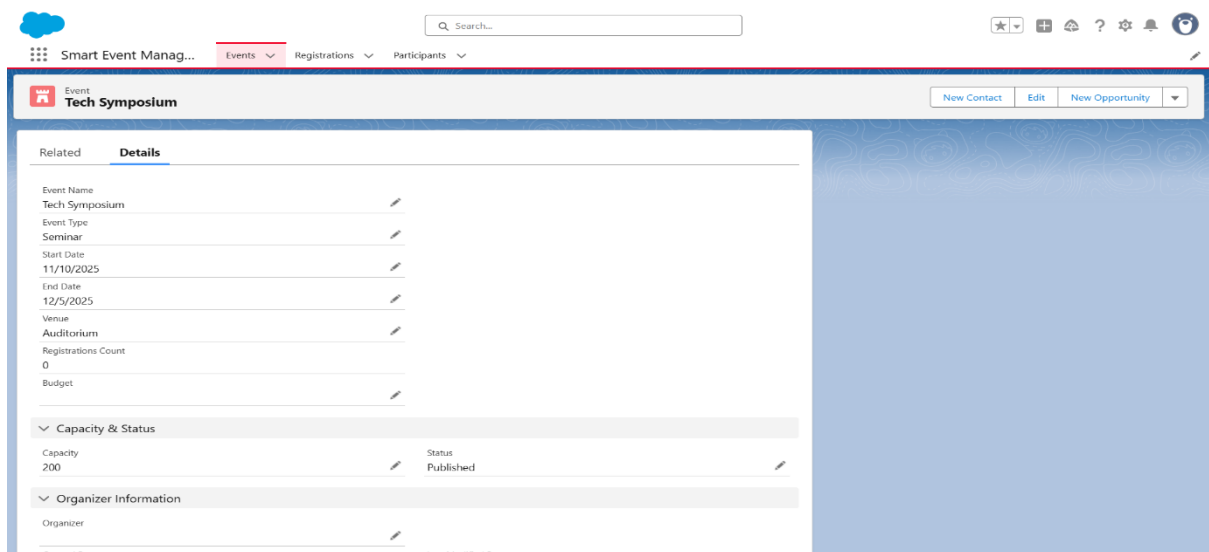
## Step 1: Lightning App Builder – Creating the Application

- A dedicated **Smart Event Management App** was created using Lightning App Builder.
- This app consolidates all relevant tabs such as **Events**, **Participants**, **Registrations** into one interface.
- Users can quickly navigate between objects and perform their tasks efficiently.



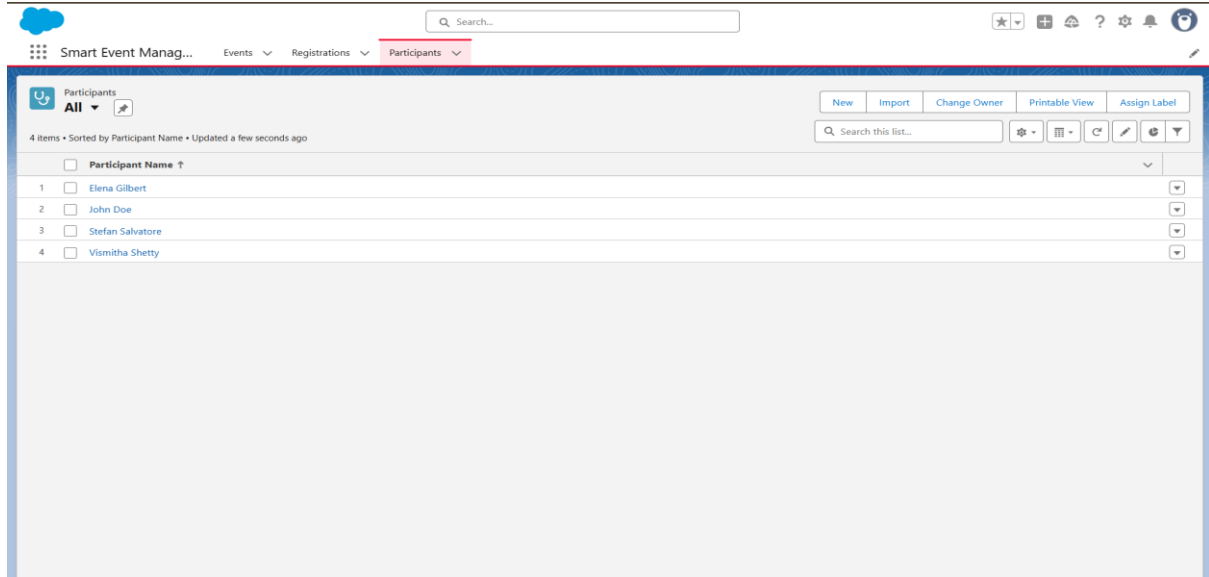
## Step 2: Record Pages

- **Custom Record Pages** were built for Event and Participant objects.
- Event record page includes: Event details, list of participants, and related registrations.
- Participant record page includes: Participant info and their event history.
- These layouts give a 360° view of data for each record.



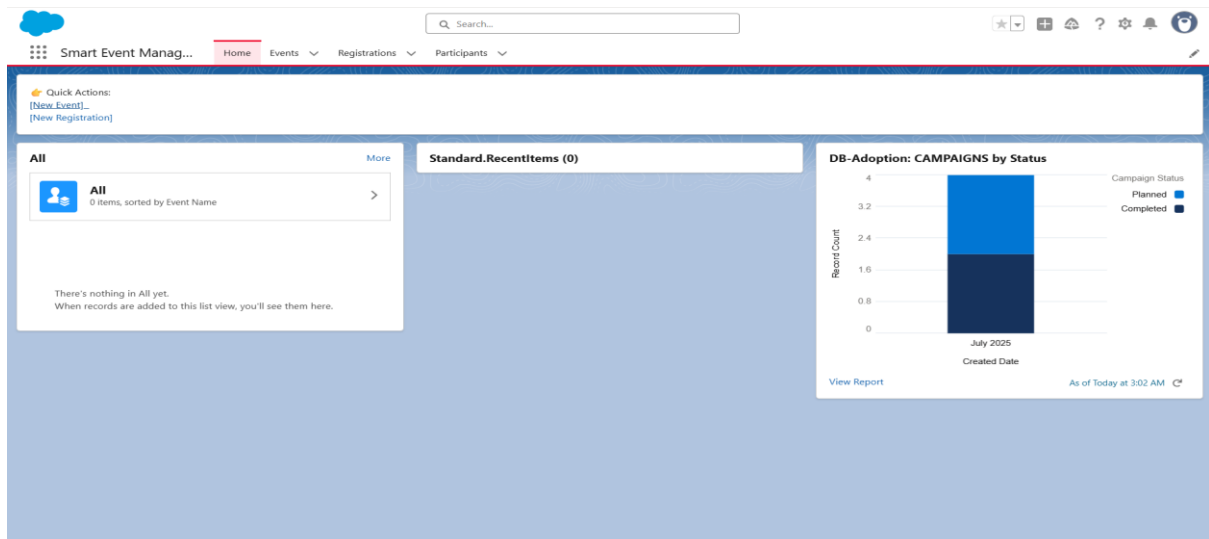
## Step 3: Tabs

- New **custom tabs** were created for Event, Participant, and Registration objects.
- These tabs make custom objects accessible directly from the app navigation.



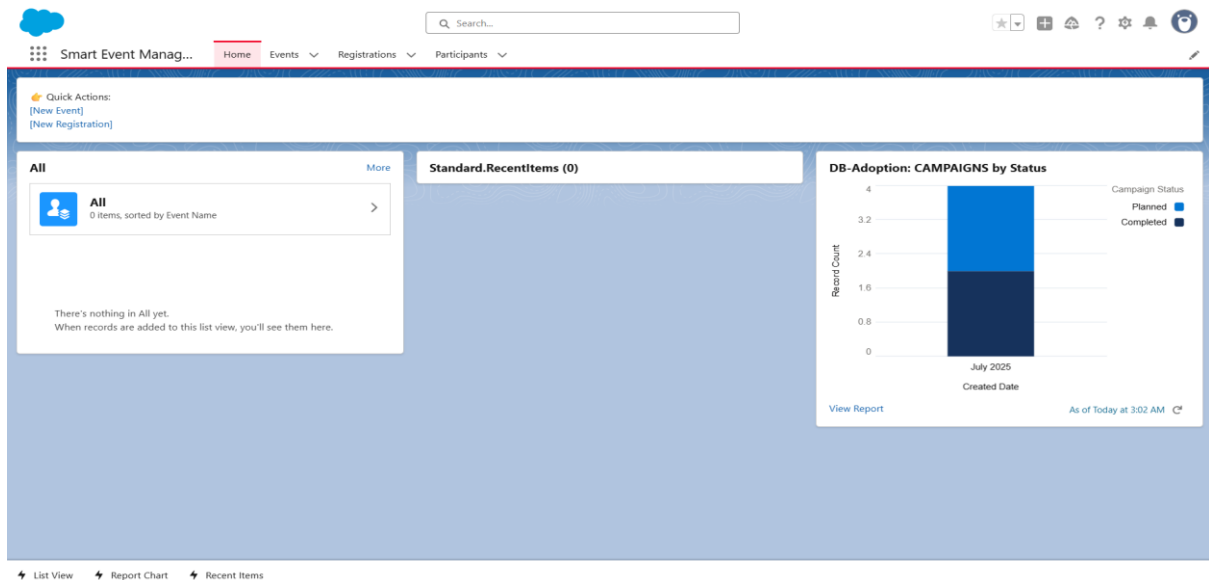
## Step 4: Home Page Layouts

- A customized **Home Page** was created for Event Managers.
- It displays:
  - Upcoming events (list view component).
  - Quick links to create new Events or Registrations.
  - Dashboards summarizing registrations.
- This layout provides a management-level overview at login.



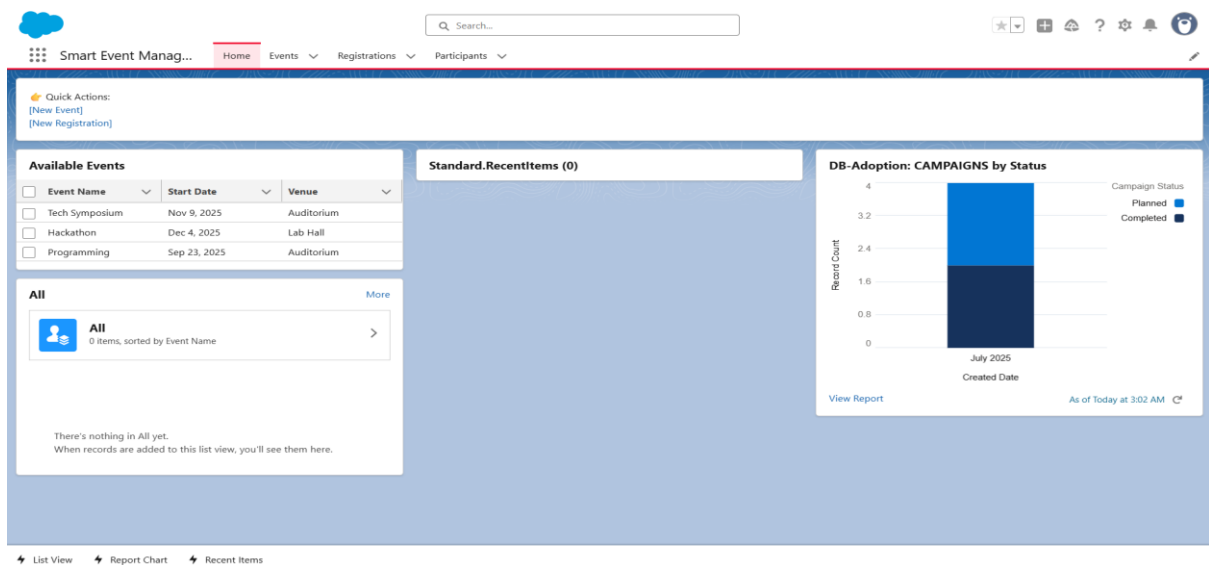
## Step 5: Utility Bar

- A **Utility Bar** was added to the app for quick actions.
- Includes:
  - Quick access to Event Reports.
  - Recent items for faster navigation.
- Utility bar is visible at the bottom of the app.



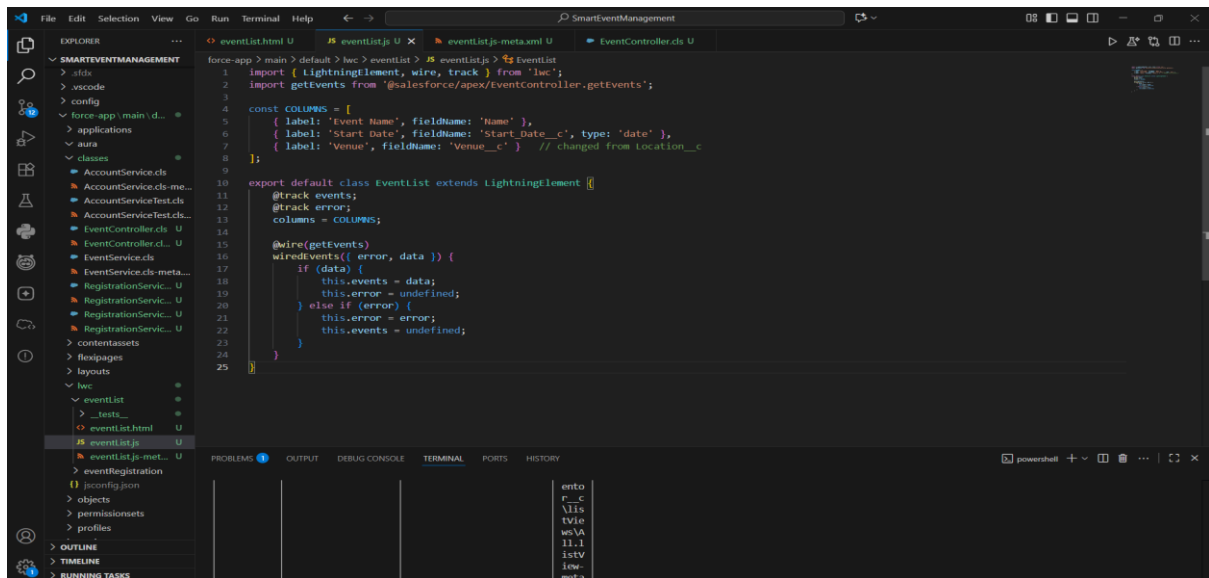
## Step 6: Lightning Web Components (LWC)

- Custom LWCs were created to extend UI functionality.
- Examples:
  - **Search Available Events:** A component where participants search events by date or category.



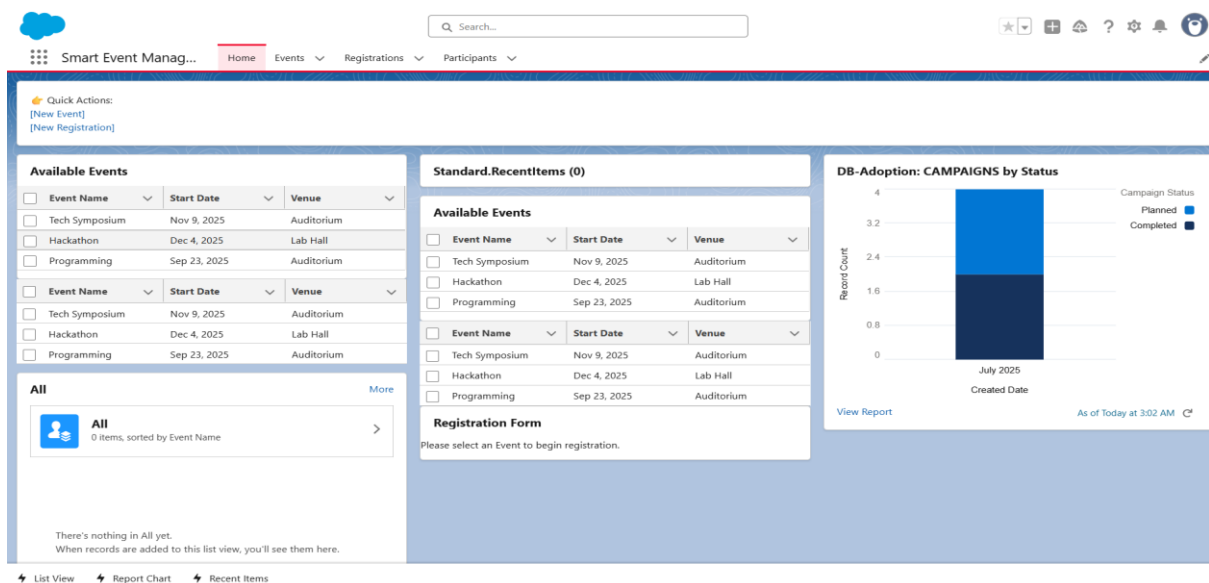
## Step 7: Apex with LWC

- LWCs were connected to Apex classes for dynamic data retrieval.
- Example: When searching for events in LWC, Apex SOQL queries are executed in the background.
- Ensures **real-time results** without refreshing pages.



## Step 8: Events in LWC

- Parent-child communication implemented using LWC events.
- Example: When a participant selects an event in the search component, the event Id is passed to the registration form component.
- Improves modularity of UI components.



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## ACHIEVEMENTS IN PHASE 6

- Built a **dedicated Lightning App** for Smart Event Management.
- Customized record pages and home pages for role-specific efficiency.
- Integrated **LWCs** for advanced UI features like search, registration form, and interactive components.
- Implemented **Apex integration with LWCs** for dynamic queries and real-time processing.
- Improved usability with Utility Bar, Navigation Service, and custom layouts.

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With Phase 6 complete, the app now has a **user-friendly interface** that combines Salesforce standard UI features with custom-built LWCs, making the system easy to use for both event managers and participants.