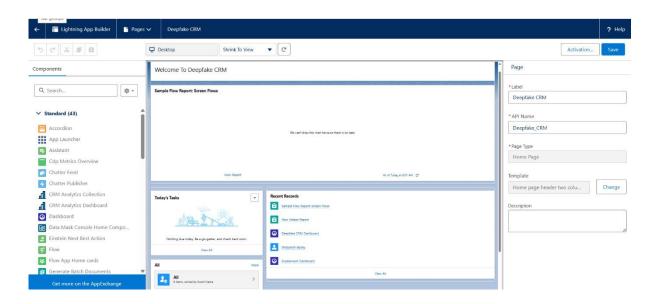
# Phase 6: User Interface Development – Salesforce

### 1. Lightning App Builder

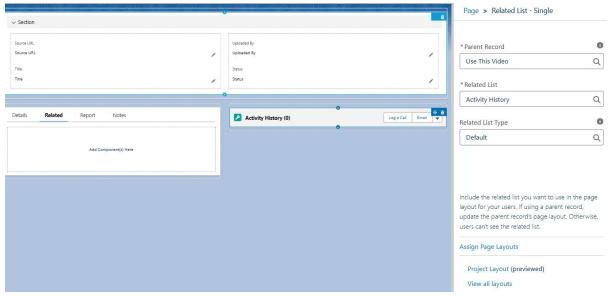
- Drag-and-drop tool to create App, Home, or Record pages.
- · Types of pages:
  - App Page: Standalone page in App Launcher.
    Home Page: Landing page with dashboards, reports, and components.
  - o Record Page: Custom layout for specific objects (e.g., Video).
- Features:
  - Dynamic visibility Tabs for organization 
    Custom LWC integration
- **Tip:** Use tabs template for Record Pages to organize Details, Related Lists, and custom components.



# 2. Record Pages

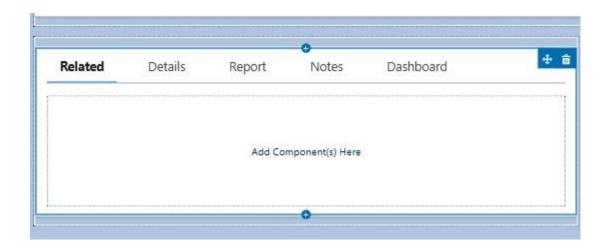
• Customizes layout for object records.

- Include:
  - Highlights Panel: Key fields at top. 
    Related Lists, and Custom LWCs.
  - o **Custom Components:** Video Player, Alerts, Detection status.
- Assign pages to profiles or apps.



# 3. Tabs

- · Organize information efficiently.
- Examples for Video object:
  - Details (Record Fields) Related
    (Alerts, Comments) Video Player (LWC) ○
    Detection/Info (Custom LWC or Rich Text) ○
    Report Notes Dashboard



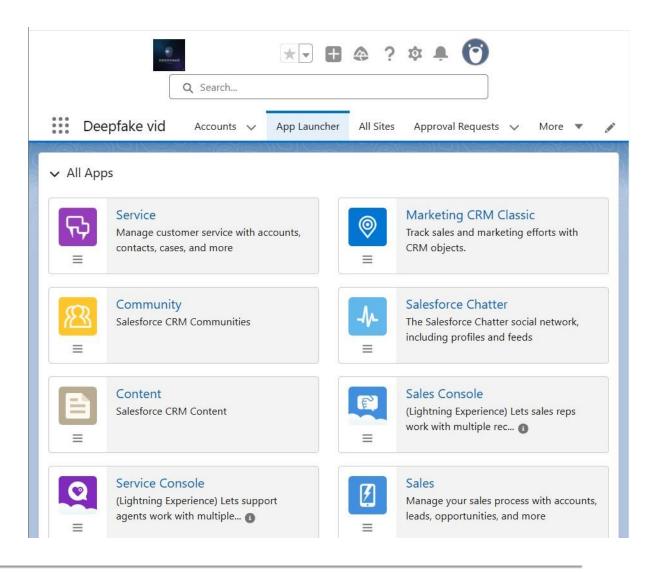
# 4. Home Page Layouts

- Custom landing page for users.
- Components:
  - $\circ$  Reports, Dashboards  $\circ$

Announcements o Custom LWC

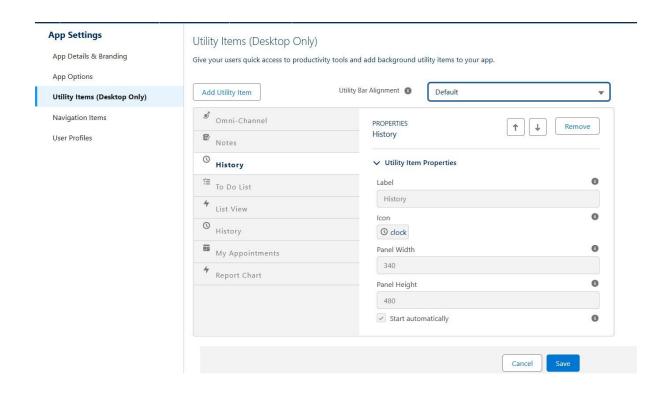
(e.g., Recent Videos)

• Can assign different layouts for different **profiles**.



# 5. Utility Bar

- Persistent footer in Lightning apps.
- · Quick access tools for productivity.
- Add via App Manager → Utility Bar → Add Utility.

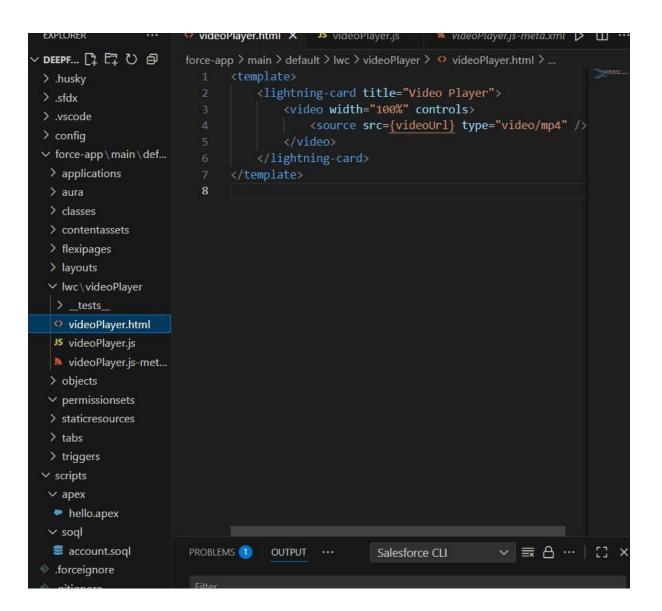


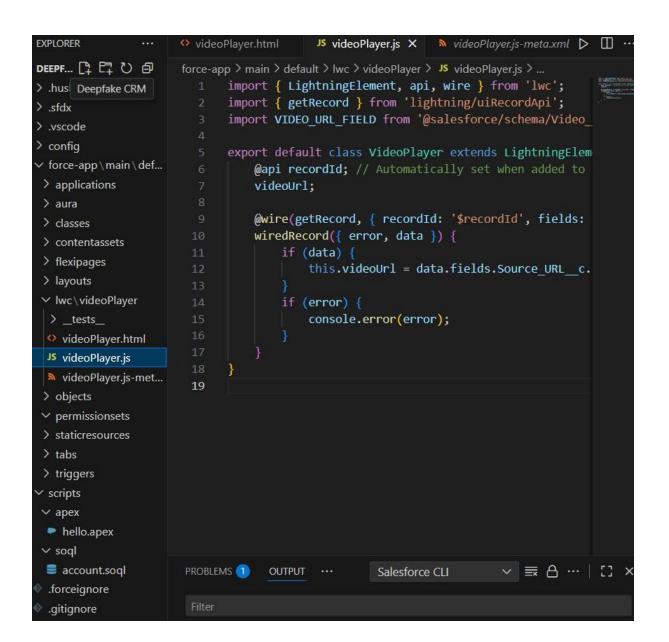
# 6. Lightning Web Components (LWC)

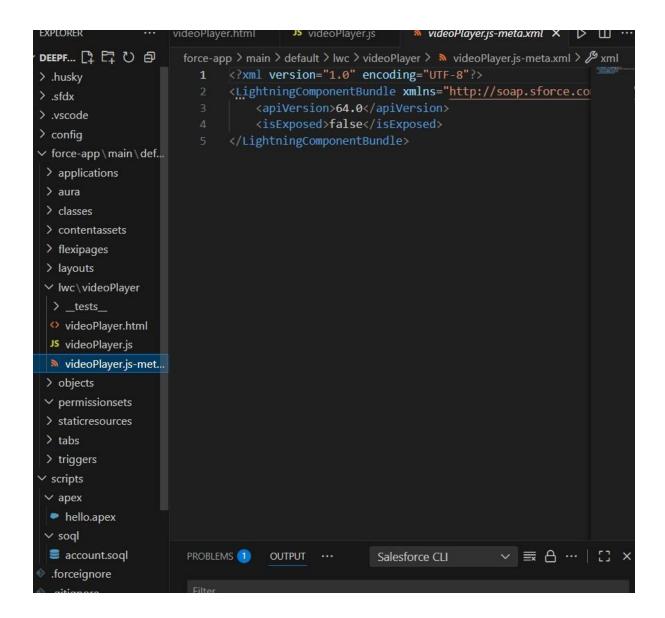
- Modern framework based on JavaScript ES6+.
- Files:

$$\circ$$
 .html  $\rightarrow$  UI  $\circ$  .js  $\rightarrow$  Logic  $\circ$  .css  $\rightarrow$  Styling (optional)

- Can be added to Record Pages, App Pages, and Utility Bar.
- Example: Video Player, Video Alerts, Upload Widget.







# 7. Apex with LWC

- Apex handles server-side logic.
- Read-only data: Use @AuraEnabled(cacheable=true) with wire adapter.
- User actions: Use imperative Apex calls for buttons/events.
- Example:
  - Fetch Video details

Update Video status

Analyze video

#### 8. Events in LWC

- **Custom events:** Child → Parent communication.
- Pub/Sub / Application events: Component → unrelated component communication.
- Use case: Update Detection Status across multiple components when video is analyzed.

### 9. Wire Adapters

- · Reactive data fetching.
- Examples:
  - getRecord ogetObjectInfo ogetPicklistValues
- Automatically updates component when data changes.

# 10. Imperative Apex Calls

- Explicit Apex call triggered by user action.
- Example:
  - o Analyze video o

Approve video

• Flexible control over when server-side code runs.

#### 11. Navigation Service

- Use NavigationMixin in LWC.
- Programmatic navigation:
  - Standard pages (record, object list)
  - o URLs
  - Lightning pages
- Example: Redirect user after saving or analyzing a video.