**Phase 6: User Interface Development Documentation**

**1. Lightning App Builder**

- Utilized Lightning App Builder to design customized, responsive pages for NeuroWell.
- Created a dedicated Mental Wellness dashboard app for counselors and administrators.
- Integrated components like Record Pages, Tabs, and Utility Bar for streamlined navigation.
- Configured App settings to ensure a cohesive branding and intuitive user experience.

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**2. Record Pages**

- Designed custom Record Pages for key objects:
    - **Patient Records**: Displays mental wellness history, early detection analytics, session logs.
    - **Counselor Records**: Displays assigned patients, schedules, and performance metrics.
- Used dynamic components to tailor record page views based on user role and context.
- Ensured mobile responsiveness for access on-the-go.

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**3. Tabs**

- Organized information into logical tabs for easy navigation:
    - **Patient Details**
    - **Wellness History**
    - **Early Detection Reports**
    - **Session Management**
- Implemented tab-based navigation for both desktop and mobile layouts to improve usability.

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**4. Home Page Layouts**

- Designed role-specific home pages for:

    - Counselors: Quick view of assigned patients and upcoming sessions.
    - Admins: Analytics dashboards and workflow monitoring.
    - Patients: Personal wellness summary and resources.
- Added components such as charts, recent records, and action buttons for faster access.

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**5. Utility Bar**

- Configured Utility Bar to provide quick-access tools:
    - **Search**: For quick patient/counselor lookup.
    - **Notifications**: Instant alerts for wellness changes or session updates.
    - **Shortcuts**: To frequently-used tools like “Add Session” or “Generate Report”.

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**6. LWC (Lightning Web Components)**

- Developed custom Lightning Web Components to extend Salesforce UI.
- Key LWCs created for NeuroWell:
    - **WellnessStatusCard**: Displays wellness status with color-coded risk levels.
    - **SessionScheduler**: Interactive calendar for session booking.
    - **EarlyDetectionGraph**: Displays trends from wellness data analytics.
- Ensured reusable components with proper modular architecture.

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**7. Apex with LWC**

- Integrated Apex controllers with LWCs to fetch and process server-side data.
- Created Apex methods to:
    - Retrieve patient wellness records.
    - Update early detection flags based on latest assessments.
    - Handle session booking logic.
- Implemented error handling for robust component behavior.

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**8. Events in LWC**

- Used custom and standard events for component communication:
    - **Custom Events**: For passing wellness data between components.
    - **Lightning Message Service**: For cross-component data sharing.
- Example: When a patient's record is updated, a "refresh" event triggers updates in related components.

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**9. Wire Adapters**

- Used wire adapters for reactive data fetching:
    - **getRecord**: To fetch real-time patient data.
    - **getObjectInfo**: To access schema metadata for dynamic UI rendering.
    - **getPicklistValues**: For dynamic dropdowns in wellness forms.
- Improved performance by leveraging reactive updates instead of manual refreshes.

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**10. Imperative Apex Calls**

- Used imperative Apex calls for operations requiring explicit invocation:
    - Session booking confirmation.
    - Early detection risk recalculations.
    - Sending notifications.
- Ensured efficient asynchronous handling and error responses.

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**11. Navigation Service**

- Integrated Salesforce Navigation Service in LWCs to improve UX:
    - Direct navigation to patient records from dashboards.
    - Navigation to custom pages for mental wellness reports.
    - Seamless redirection after session creation or updates.
- Ensured smooth transitions and minimized user clicks.

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**Outcome of Phase 6:**
A highly interactive, intuitive user interface tailored for NeuroWell that allows counselors, administrators, and patients to efficiently track mental wellness progress, manage sessions, and access early detection insights with minimal navigation effort.