

**Project:** ReciSearch, Group 2

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## Function Point Components

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### ➤ Internal Logical File (ILF): User Authentication Data (Supabase)

- **Complexity:** Average
  - **Points:** 10
  - **Function/Output:**  
Stores and manages user credentials (email, hashed password, session tokens, etc.) using Supabase authentication.
  - **Data Elements (DETs/RETs):**  
User ID, Email, Hashed Password, Session Token, Timestamps (5 DETs/RETs).
  - **Output:** None
  - **Justification:**  
This data is maintained and modified within the app's boundaries. Qualifies as an ILF due to its logical relatedness and persistence, treated as internal for this context.
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### ➤ External Interface Files (EIF)

- **Complexity:** N/A
  - **Count:** 0
  - **Justification:**  
No external files maintained by other applications are used directly in Login/Logout.
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### ➤ External Inputs (EI)

1. **processLogin(email, password)**
  - **Complexity:** Average
  - **Points:** 4
  - **Parameters (DETs):** 2 (email, password)
  - **FTRs:** 1 (User Authentication ILF)
  - **Output:** Calls `supabase.auth.signInWithPassword`
  - **Justification:**  
Crosses application boundary and initiates logic. Fits EI classification.
2. **processLogout()**

- **Complexity:** Low
  - **Points:** 3
  - **Parameters (DETs):** 1 (click event)
  - **FTRs:** 1 (User Authentication ILF)
  - **Output:** Calls `supabase.auth.signOut`
  - **Justification:**  
Initiates session-ending logic. Minimal input.
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➤ **External Outputs (EO)**

1. **displayLoginOutcome(result)**
    - **Complexity:** Average
    - **Points:** 5
    - **Parameters (DETs):** ~2–3 (success/error object)
    - **FTRs:** 1 (User Authentication ILF)
    - **Output:** Redirect or render error message
    - **Justification:**  
Formats processed data to the user interface. Qualifies as EO.
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➤ **External Inquiries (EQ)**

- **Complexity:** N/A
  - **Count:** 0
  - **Justification:**  
No real-time query or lookup without processing is involved in the authentication features.
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**Final Function points: 22**