**Use Case Scenario**

| **1. Use Case Title** | **User Login** |
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| **2. Abbreviated Title** | **Login** |
| **3. Use Case ID** | **UC01** |
| **4. Actors** | **User** |
| **5. Description:**  **This use case allows a user to access the AlgoArena platform by logging in with valid credentials. It ensures the user is authenticated before accessing any other features of the platform.** | |
| **5.1. Pre-Conditions: The user must be registered on the platform.** | |
| **5.2. Task Sequence:**   1. **User opens the AlgoArena platform.** 2. **User enters username and password.** 3. **System validates credentials.** 4. **System grants access to the user.** | |
| **5.3. Post Conditions:**  **The user is logged into the platform and can access their profile.** | |
| **6. Modification History: Initial version (Date 24-Oct-24)** | |
| **7. Author: Dilpreet , Pratyush , Somil , Ruhani** | |