

Software Requirements Specification (SRS)

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Contents

1 Use Case Specifications	2
1.1 Use Case: User Login	2

List of Figures

1 Login flow for registered users	4
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List of Tables

1 User Login Use Case Attributes	5
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1 Use Case Specifications

This section describes the primary use cases for the system.

1.1 Use Case: User Login

Brief Description: Allows users to log into the system using their credentials.

Actors

- Registered User

Preconditions

- The user has already registered.

Basic Flow

1. User navigates to the login page.
2. User enters email and password.
3. System validates credentials.
4. User is redirected to the dashboard.

Alternate Flow

If the credentials are invalid:

- System displays an error message.
- User is asked to retry or reset password.

Postconditions

- The user is authenticated and logged in.
For more use cases, see [Section 1](#).
For design references, visit [MDN Web Docs on Authentication](#).

Note

Use HTTPS to secure login credentials during transmission.

Note

Test

Sample Login Validation Code (Python)

Listing 1: Simple login validation

```
def login(email, password):  
    user = db.find_user(email)  
    if user and user.check_password(password):  
        return True  
    return False
```

Login Flow Diagram

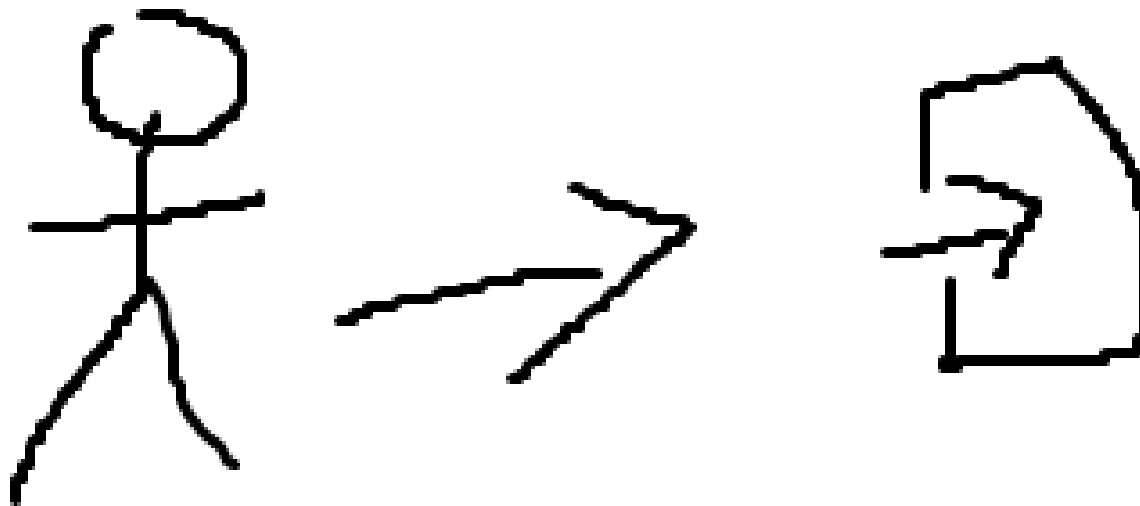


Figure 1: Login flow for registered users

Use Case Attributes

Table 1: User Login Use Case Attributes

Attribute	Description
Use Case ID	UC-01
Use Case Name	User Login
Primary Actor	Registered User
Goal in Context	Authenticate user to access secure dashboard
Stakeholders and Interests	Users want secure access; system must ensure data protection