

. Cover Page

- **Course Title:** CSE360 - Software Engineering
 - **Project Title:** Login Design Implementation
 - **Team Members:**
 - Ed (Database Implementation for New Users)
 - James (Admin User Stories Implementation)
 - Ayra (UI/UX Design)
 - **Submission Date:** 10/10/205
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2. Shared Agreement on User Experience and Interface

- **Design Reference:** The login interface will be modeled after Facebook's design (as of September 26, 2025).
 - **Functionality:** Users will enter their username and password. If either field is empty, an error box will be displayed.
 - **Styling:** The Java GUI will mimic Facebook's styling, font, and size. For styling resources, refer to Facebook's design using developer tools (Ctrl + Shift + I).
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3. Input Validation Requirements

Username Requirements:

- Length: **5-16 characters**
- Must be **alphanumeric** (first character must be alphabetic)
- Allowed special characters: **'-', '.', '_'** (must be between alphanumeric characters)

Password Requirements:

- Length: **8-16 characters**
- Must contain:
 - At least **one uppercase letter**
 - At least **one lowercase letter**
 - At least **one special character**
 - At least **one number**

Error Messages:

- If input requirements are not met, the application will display specific error messages.
 - Example for invalid password:
"Error: Please provide a password that is:"

- between 8-16 characters
 - contains an uppercase letter
 - contains a special character”
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4. Implementation Plan and Progress Made

Team Responsibilities:

- **Ed:** Implementing New Users user stories and managing database integration.
- **James:** Implementing Admin user stories and handling GitHub repository setup.
- **Ayra:** Designing the UI/UX of the application using Figma.

Standup Meetings:

- **Schedule:** Mondays (in-person) and Wednesdays (Zoom).
 - **Recent Meeting Summary (Thursday):**
 - Discussed progress and challenges.
 - Ed shared database implementation hurdles.
 - James uploaded HW1 implementation and set up the GitHub repository.
 - Ayra presented the UI/UX design and flow control.
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5. Automated Tests

Input Validation Tests:

- **Username Validation:**
 - Test for length (5-16 characters)
 - Test for alphanumeric characters
- **Password Validation:**
 - Test for length (8-16 characters)
 - Test for uppercase, lowercase letters, special characters, and numbers.

Screencast for Password Validation:

- **Link:** [Password Validation Screencast](#)
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6. GitHub Repository

- **Repository Link:** [GitHub Repository](#)
- **Access Information:** [Insert Password or Access Instructions]

7. Screencast Plans

Screencast 1:

- **Content:** Overview of username and password implementation.
- **Link:** [Screencast 1](#)

Screencast 2:

- **Content:** Discussion on architecture, design, and GUI code.
- **Link:** [Screencast 2](#)

Scrum Meeting Link:

- **Link:** [Scrum Meeting](#)
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8. Contributions Overview

- Set up GitHub repository with README file.
 - Uploaded modified foundational code from Homework 1.
 - Documented input validation requirements and adjusted code accordingly.
 - Implemented 4 out of 5 provided User Stories.
 - Designed Facebook-inspired login page using Figma.
 - Created JavaFX GUI project with necessary classes and implementations.
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9. UML Class Diagram

Example Class: testCode

```
public class testCode {  
    // Attributes  
    private int value;  
    private String name;  
  
    // Constructor  
    public testCode(int value, String name) {
```

```

        this.value = value;
        this.name = name;
    }

// Method

public void displayInfo() {
    System.out.println("Value: " + value + ", Name: " + name);
}

}

```

UML Class Diagram:

```

+-----+
|      testCode      |
+-----+
- value: int a = 5;
| - name: String = "Team formation"
+-----+
| + testCode(int, String) |
| + displayInfo(): void  |
+-----+

```

10. Communication and Collaboration

- **Meeting Times:**
 - Mondays: In-person after class
 - Wednesdays: Zoom (time flexible)
- **Communication Tools:**
 - Group chat for quick information sharing.
 - Email for homework discussions.

