**Test Cases**

*For each user story, specify test cases using the methodology presented in the last lecture:*

*a. Find the (in)valid int/out*

*b. Find the equivalent classes*

*c. Define the testing in/out using boundary value analysis*

*d. Define the steps to be performed by the tester*

Test Case 1: Admin login

a) Valid input: username is admin and password is admin123

Valid output: Admin section window pops out

Invalid input: any other combinations of letters, numbers, or symbols

Invalid output: “Incorrect username or password” message

b) Equivalence class (EC): username is admin and password is admin123

c) Boundary value analysis:

|  |  |  |
| --- | --- | --- |
|  | In | Out |
| Testing inputs | Username is admin and password is admin123 | Username is admim and password is admin122 |
| Testing outputs | Admin section window pops out | “Incorrect username or password” message |

d) Equivalence class:

1. Test with username as admin and password as admin123

2. Test with random combinations of letters, numbers, or symbols

Boundary value analysis:

3. Test with username as admin and password as admin123

4. Test with username as admim and password as admin122

Test Case 2: Librarian login

a) Valid input: valid combination of usernames and passwords

Valid output: Librarian section window pops out

Invalid input: any other usernames and passwords

Invalid output: “Incorrect username or password” message

b) Equivalence class (EC): combination of usernames and passwords that are stored in the database

c) Boundary value analysis:

|  |  |  |
| --- | --- | --- |
|  | In | Out |
| Testing inputs | Username is bobdoe and password is Bd#12345 | Username is bobdod and password is Bd#12355 |
| Testing outputs | Librarian section window pops out | “Incorrect username or password” message |

d) Equivalence class:

1. Test with username as bobdoe and password is Bd#12345

2. Test with random combinations of letters, numbers, or symbols

Boundary value analysis:

3. Test with username as bobdoe and password is Bd#12345

4. Test with username as bobdod and password is Bd#12355