User Story 1: Secure Login

As an admin, I want to securely log in to the system so that I can manage employee data.

Test Cases:

1. Login with correct credentials (Expected: Success)
2. Login with incorrect password (Expected: Failure)
3. Login with incorrect username (Expected: Failure)
4. Use ‘Forgot your password?’ feature (Expected: Password reset email sent)
5. Login while the server is down (Expected: Failure)

Tasks:

Implement secure authentication mechanism

Subtask: Set up database for storing encrypted credentials

Subtask: Integrate authentication API

Defect Report for Failed Test Case 5:

Title: Login service unavailable during server downtime

Description: Users are unable to log in when the server is down, receiving a generic error message instead of a specific downtime notification.

Steps to Reproduce: Attempt to log in while the server is down.

Expected Result: Specific downtime notification displayed.

Actual Result: Generic error message displayed.

User Story 2: Remember Me Functionality

As a user, I want the system to remember my username so that I don’t have to enter it every time I log in.

Test Cases:

Enable ‘Remember Me’ and log in (Expected: Username remembered)

Disable ‘Remember Me’ and log in (Expected: Username not remembered)

Clear browser cookies and log in (Expected: Username not remembered)

Login from a different browser (Expected: Username not remembered)

Enable ‘Remember Me’ and log in, then log out and log in again (Expected: Username remembered, but fails)

Tasks:

Implement ‘Remember Me’ functionality

Subtask: Add checkbox for ‘Remember Me’

Subtask: Store username in cookies

Defect Report for Failed Test Case 5:

Title: ‘Remember Me’ functionality fails after logout

Description: Username is not remembered after logging out and logging in again.

Steps to Reproduce: Enable ‘Remember Me’, log in, log out, and log in again.

Expected Result: Username should be remembered.

Actual Result: Username is not remembered.

User Story 3: Password Recovery

As a user, I want to recover my password if I forget it so that I can regain access to my account.

Test Cases:

Enter registered email for password recovery (Expected: Password reset email sent)

Enter unregistered email for password recovery (Expected: Error message displayed)

Click on password reset link in email (Expected: Redirect to password reset page)

Enter new password and confirm (Expected: Password reset successful)

Enter mismatched passwords during reset (Expected: Error message displayed, but fails)

Tasks:

Implement password recovery feature

Subtask: Create password recovery form

Subtask: Send password reset email

Defect Report for Failed Test Case 5:

Title: Error message not displayed for mismatched passwords

Description: No error message is displayed when the passwords entered during reset do not match.

Steps to Reproduce: Enter mismatched passwords during password reset.

Expected Result: Error message should be displayed.

Actual Result: No error message displayed.

User Story 4: Session Timeout

As a user, I want my session to timeout after a period of inactivity so that my account remains secure.

Test Cases:

Remain inactive for the session timeout period (Expected: Session expires)

Remain active for the session timeout period (Expected: Session remains active)

Attempt to perform an action after session timeout (Expected: Redirect to login page)

Receive warning before session timeout (Expected: Warning displayed)

Session timeout while filling a form (Expected: Data saved, but fails)

Tasks:

Implement session timeout functionality

Subtask: Set session timeout period

Subtask: Display warning before timeout

Defect Report for Failed Test Case 5:

Title: Data not saved on session timeout

Description: Data entered in a form is not saved when the session times out.

Steps to Reproduce: Fill a form and remain inactive until session times out.

Expected Result: Data should be saved.

Actual Result: Data is not saved.

User Story 5: Multi-Factor Authentication (MFA)

As a user, I want to enable multi-factor authentication for my account so that I can enhance its security.

Test Cases:

Enable MFA and log in (Expected: MFA prompt displayed)

Disable MFA and log in (Expected: No MFA prompt)

Enter correct MFA code (Expected: Login successful)

Enter incorrect MFA code (Expected: Login failed)

Attempt login without MFA setup (Expected: Error message displayed, but fails)

Tasks:

Implement multi-factor authentication

Subtask: Integrate MFA API

Subtask: Add MFA setup option in user settings

Defect Report for Failed Test Case 5:

Title: No error message for login without MFA setup

Description: No error message is displayed when attempting to log in without MFA setup.

Steps to Reproduce: Attempt to log in without setting up MFA.

Expected Result: Error message should be displayed.

Actual Result: No error message displayed.