**Acceptance Testing Document**

1. **Introduction**

The purpose of this document is to define the Acceptance Testing for software created, ensuring the system meets the specified requirements, functionalities, and if it is ready for deployment.

1. **Scope:**

This document covers the test cases for 9 PHP files individually which were coded by the team to carry out the required tests. They are as follows:

**TEST\_DB\_CONNECT.php**

**TEST\_FETCH\_SUPERVISOR\_TASKS.php**

**TEST\_FETCH\_TASKS\_ADMIN.php**

**TEST\_FETCH\_TASKS.php**

**TEST\_TASKS\_ADMIN.php**

**TEST\_LOGIN.php**

**TEST\_TASKS\_SUPERVISOR.php**

**TEST\_TASKS\_USER.php**

**TEST\_USERS\_ADMIN.php**

1. **Test Cases:**
   1. **Can the system connect to the database and retrieve metadata successfully?**

This test ensures that the system can establish a secure connection with the PostgreSQL database, perform basic queries, and handle failures.

**TEST\_DB\_CONNECT.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Successful Connection |  | Correct credentials | Connection is successful |  | Pass |
| Unsuccessful Connection |  | Incorrect credentials | Error message is displayed |  | Fail |
| Fetch PostgreSQL Version |  | N/A | Version is displayed |  | Pass |
| Fetch Tables |  | N/A | Table list is displayed |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Detect and log failed connection attempts |  |  |  |  |  |
| Validate successful secure connection to DB |  |  |  |  |  |
| Handles failures gracefully |  |  |  |  |  |

* 1. **Can a supervisor fetch all tasks or only their own, securely and correctly?**

This test ensures validates whether a supervisor can access task data through the backend script. It checks behaviour with and without filters, ensures session role enforcement, and error handling.

**TEST\_FETCH\_SUPERVISOR\_TASKS.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Fetch All Tasks |  | Supervisor logs in and should be shown tasks | All tasks are returned. |  | Pass |
| Fetch My Tasks |  | Supervisor attempts to fetch tasks | Only assigned tasks are returned |  | Pass |
| Authorised Access |  | Supervisor logs in | Supervisor is given access to all appropriate systems |  | Pass |
| Unauthorised Access |  | Non-supervisor logs in | User is redirected to appropriate page. |  | Fail |
| Database Error |  | N/A | Faulty DB connection |  | Fail |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| View and manage tasks assigned to others |  |  |  |  |  |
| Add comments |  |  |  |  |  |
| Assign/reassign tasks |  |  |  |  |  |
| Review status and priority |  |  |  |  |  |

* 1. **Can an Admin retrieve all tasks, their actions, and all assigned users accurately?**

This test ensures the admin can view complete task information, including the primary assignee, multiple contributors, and associated actions. It also checks authorisation and error scenarios.

**TEST\_FETCH\_TASKS\_ADMIN.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Fetch All Tasks |  | N/A | Tasks are returned |  | Pass |
| Authorised Access |  | Admin user logs in | Admin can access all appropriate systems |  | Pass |
| Unauthorised Access |  | Non-admin user logs in | User is redirected to relevant page |  | Pass |
| Database Error |  | N/A | Faulty DB connection |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Admin can manage users and tasks |  |  |  |  |  |
| Admins can see all task actions |  |  |  |  |  |
| Admin can view the primary assigned user for every task and any additional |  |  |  |  |  |

* 1. **Can a logged-in user retrieve only their assigned tasks and related action stats?**

This checks that users only see their personal tasks and that the system accurately counts and returns associated task actions.

**TEST\_FETCH\_TASKS.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Successfully Fetch User Tasks |  | N/A | Tasks are returned |  | Pass |
| No Tasks Found |  | N/A | No tasks returned |  | Pass |
| Not Logged In |  | N/A | User cannot access anything |  | Pass |
| Database Error |  | N/A | Faulty DB connection |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Users are limited to viewing their own tasks |  |  |  |  |  |
| Users can see task priority and update progress |  |  |  |  |  |
| Users can upload and view attachments |  |  |  |  |  |
| Users can see ALL information to do with a task |  |  |  |  |  |

* 1. **Is the admin dashboard properly restricted and accessible only to admins?**

This verifies secure access control to the admin dashboard; it ensures only authenticated admins can view the page and others are redirected appropriately.

**TEST\_TASKS\_ADMIN.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Authorised Access |  | Admin logs in | Admin can access and view all appropriate systems |  | Pass |
| Unauthorised Access |  | Non-admin logs in. | User is redirected appropriately |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Admin has full supervisor capabilities |  |  |  |  |  |
| Admin can process task deletion requests |  |  |  |  |  |
| Admin can view the request queue |  |  |  |  |  |
| Admin can delete tasks |  |  |  |  |  |

**4.6 Can users log in? How will they login and what can prevent them from doing so?**

Users should be able to log in with their correct details but will be disallowed log in if they cannot provide the correct details in the correct formats.

**Successful logins:**

* If user enters the correct log in detail for a specific role, then access to specific features within the GUI will be granted.
* A suitable message should be displayed to indicate that login was successful. This comprehensive test validates the login mechanism and input validation.

**Unsuccessful logins:**

* The user enters the username ID or password wrong that doesn’t match any existing account.
* An error message should be displayed.

**TEST\_LOGIN.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Successful Login | High | User inputs the right details | Success |  | Pass |
| Missing Fields | High | User does not input a field |  |  | Pass |
| Invalid Email Format | High | User inputs the wrong email format when logging in |  |  | Pass |
| Invalid Credentials | High | User inputs invalid credentials |  |  | Pass |
| Invalid Request Method | High |  |  |  | Pass |
| Database Error | High | Simulate failure |  |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Microsoft OpenAuth Login | High |  |  |  |  |
| Microsoft login credentials support | High |  |  |  |  |
| Role-based redirection on login | High |  |  |  |  |
| Rejection of unknown/unauthorised users | High |  |  |  |  |

* 1. **Is the supervisor dashboard protected and shown only to authorised supervisors?**

Confirms that the supervisor dashboard is only accessible to users with the correct role.

**TEST\_TASKS\_SUPERVISOR.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input | Expected Output | Actual Outcome | Test Outcome |
| Authorised Access |  | Supervisor logs in | Supervisor can access all appropriate systems |  | Pass |
| Unauthorised Access |  | Non-supervisor logs in | User is redirected appropriately |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Supervisor can view tasks |  |  |  |  |  |
| Supervisor can assign/reassign tasks |  |  |  |  |  |
| Supervisor can set task priorities |  |  |  |  |  |
| Supervisor cannot directly delete tasks, only request deletion |  |  |  |  |  |

* 1. **Is the user task page accessible only to authenticated users?**

This ensures that regular users with the ‘user’ role can access their personal task dashboard and others are appropriately redirected.

**TEST\_TASKS\_USER.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input | Expected Output | Actual Outcome | Test Outcome |
| Authorised Access |  | User logs in | User granted access to all appropriate systems |  | Pass |
| Unauthorised Access |  | User attempts to log in with invalid/wrong/missing details | User redirected appropriately |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Users can only see their own tasks |  |  |  |  |  |
| View task priority |  |  |  |  |  |
| User can add comments |  |  |  |  |  |
| User can upload files |  |  |  |  |  |
| User can check task status |  |  |  |  |  |

* 1. **Can only admins access the user management section securely?**

Ensures that the access to the user management interface is strictly limited to admins.

**TEST\_USERS\_ADMIN.php Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input | Expected Output | Actual Outcome | Test Outcome |
| Authorised Access |  | Admin logs in | Admin granted access to all appropriate systems |  | Pass |
| Unauthorised Access |  | Non-admin logs in | User redirected appropriately |  | Pass |

**Functional Requirement Test Cases**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| Test Case | Priority Level | Input Provided by User | Expected Output | Actual Outcome | Test Outcome |
| Admin can create users |  |  |  |  |  |
| Admin can delete users |  |  |  |  |  |
| Admin can modify roles |  |  |  |  |  |
| Admin can reset passwords |  |  |  |  |  |