7. System Evaluation

The process of comparing the completed system against its initial performance goals, as well as undertaking continuing testing to ensure that the system continues to satisfy those goals, is known as system assessment.

7.1 Usability Evaluation Strategy

The quality of a user's experience when dealing with items or systems, such as websites, software, devices, or apps, is referred to as usability.

The purpose of usability testing is to see how well people can understand and utilize a product to achieve their objectives. It also relates to user satisfaction with the procedure.

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| --- | --- | --- | --- | --- | --- |
| S.N | Test | Test Steps | Expected Result | Result (Desktop) | Result (Mobile) |
| 1. | Login to the dashboard (Administrator, Manager, Student) | •Navigate to the login page  • Enter correct credentials and submit | The staff gets redirected to the dashboard | Same as expected | Same as expected |
| 2. | Incorrect login | •Navigate to the login page  • Enter incorrect credentials | The wrong username or password message should be displayed | Same as expected | Same as expected. |
| For administrator only | | | | | |
| 3. | Add new staff(valid password) | • Navigate to Staff →Add Staff  • Fill up all the details correctly | The new staff is added to the system | Same as expected | Same as expected |
| 4. | Add new staff(invalid password)  (Administrator) | • Navigate to Staff → Add Staff  • Fill up details using the invalid password (less than 8 characters and different from the confirmed password) | Passwords must contain more than 8 characters or passwords that do not match the message must be displayed. | Same as expected | Same as expected |
| 5. | View all staff | • Navigate to Staff → View Staff | All staff records displayed | Same as expected | Same as expected |
| 6. | Change staff status | • Navigate to Staff → View Staff • Click the Change Status button on any staff | The staff’s status is changed and should not be able to log in if Dormant. | Same as expected | Same as expected |
| 7. | Edit staff details | • Navigate to Staff  → ViewStaff  • View any staff by clicking the view button • Change staff details or password and click submit | The staff’s details or password used for login should be changed | Same as expected | Same as expected |
| 8. | Delete staff record | Navigate to Staff → View Staff • View any staff by clicking the view button • Delete staff records by clicking the delete button | The staff record should be deleted if it is not the own account. | Same as expected | Same as expected |
| 9. | Add new Student Record | • Navigate to Students  → Add Student  • Fill in the details and submit | A new area record is added to the system | Same as expected | Same as expected |
| 10. | Edit Student details | • Navigate to Student Details  → View Locations | The Student details are changed. | Same as expected | Same as expected |
| 11. | View all student records | • Navigate to Students Records  → View Areas | All Student records displayed | Same as expected | Same as expected |
| 12. | Archive student record | • Navigate to Student → View Animals • Archive Student by clicking the Trash button | The Student is moved to the trash and the successfully archived message is displayed | Same as expected | Same as expected |
| 13. | View Student records in the trash (Admin only) | • Navigate to Student records  → View Trash | Student records in the trash are displayed | Same as expected | Same as expected |
| 14. | Delete Student record (Admin only) | • Navigate to Student records  → View Trash  • Click the delete button next to a Student to delete | The Student records are deleted from the records and the successfully deleted message is displayed | Same as expected | Same as expected |
| The tests below are related to the front end | | | | | |
| 1. | View the homepage | • Navigate to the frontend homepage | The details onthe homepage displayed | Same as Expected | Same as Expected |
| 2. | Course page | • Navigate to the courses page | Information about courses is displayed | Same as expected | Same as expected |
| 3. | Contact page | •Navigate to the Contact page | Contact informationof the university and its map aredisplayed | Same as Expected | Same as Expected |
| 4. | About us page | •Navigate to the about us  page | Information on the university is displayed | Same as  Expected | Same as  Expected |
| 5. | Events page | • Navigate to the Events page | Information on various past and present events are displayed | Same as expected | Same as Expected |
| 6. | News page | • Navigate to the news page | Information about the latest local, international, and university news is displayed | Same as Expected | Same as Expected |
| 7. | Apply page | • Navigate to the Apply page | A form to apply for university is displayed | Same as Expected | Same as Expected |

7.3 Final System Trial/Results

Clients' input will be used to evaluate the system when it has been completed. To assess the system's viability, a small-scale pilot study can be done. Before going on to the cutover phase, a large-scale experiment might be undertaken towards the conclusion of the last block. The guidelines for performing the first trial will be included in this section. Goal:

• To see if the system is feasible.

• To get input on the system's appearance and feel

• To get comments on any faults or functionalities that have been misconstrued

• After the trial, take note of any improvements the clients request and make them.

• To get permission to go on to the next stage of development

Time period: 1 day

Group of People Required:

• One Administrator representative

• Two Manager representatives

• One university representative

• One or two Visitor representative(s)

• One or two student representative(s)

• Two design group members to witness

Onboarding:

The user group will not be educated and will just be given the Administrator's account and password. This is done because the system should be simple to understand and utilize for anybody with a basic understanding of computers. Any essential instructions (for example, how to post various event gallery photographs, how to access student/staff data in the trash, etc.) will be delivered to appropriate users right away.

Client Feedback: At the conclusion of the trial, each client should be asked about their opinions on the system, both now and in the future.

7.3.1 Usability Questionnaire Design

To guarantee that crucial aspects are not overlooked and all goals are met, several questionnaires might be produced for each customer.

• What are your opinions on the system's general design and feel?

•How tough was it for you to get started with the system?

•Did you find the system to be enjoyable?

• After using the system for a time, how efficient were you?

• Have you discovered any major flaws or errors at this point?

•Do you believe the system should be altered in any way?

By asking the same questions to a broader user population, a different qualitative and quantitative analysis might be performed. The questions might be changed to allow for a range of responses (ex: a scale of 1-10). The replies might be utilized to get statistical information regarding the system's usefulness. Due to the RAD technique used in this system, only important users are involved in any input in order to move on to the next block as quickly as feasible.

Answers:

Answers from one of the key user group representatives.

• What are your opinions on the system's general design and feel?

- At this point, the system seems and feels excellent, smooth, and clean. The front looks inviting and appears to follow our rivals' current trends. It's simple to move between sites, and the mobile version works just as well. The design phase of the system appears to be going swimmingly.

• How tough was it for you to get started with the system?

- As previously said, the system was simple to use, and you could find things precisely where you needed them. Overall, with some practice with the system, it was extremely simple to get started.

• Did you find the system to be enjoyable?

- Yes, the system was generally fun to use. We are looking forward to using the system whenever more features are added.

• After using the system for a time, how efficient were you?

- We became pretty used to utilizing the system after some time with it. It was also easy to browse and operate the system once I knew where everything was.

• Have you discovered any major flaws or errors at this point?

- No, no mistakes were discovered throughout the trial.

•Do you believe the system should be altered in any way?

- I believe what we have accomplished thus far has been extremely successful. I don't see anything that needs to be changed, but I'd want to discuss a few features that we'd like to see in the future edition. It would be ideal if we could control the events that occur on the front end as well. I also omitted to mention comments once the course or record management has been modified. We've discovered that when we execute certain operations in the backend, we get a feedback message, such as Successfully Added Student Record. We'd want to see something comparable following the course management or editing process.

-In general, most of the major elements, such as adding student records, courses, staff records, locations, maintaining and interacting with possible students, and scholarships, have already been built, as well as a clean and extremely accessible front-end interface.