Project Phase 4 – Test Plan Template

# Plan Summary

This portion should describe which sections of the site you plan to test and why they are more important than the others. It is imperative that you prioritize what functions are more important than others. Overall, I will be expecting that the core functionality, the CRUD operations of your site to be tested. I will not expect Unit tests in your code, but rather functional tests to ensure that the site functions as specified in your Phase 1 documentation. There should be at least 10 Test Plans and 20 runs for a happy path scenario and a failure scenario. The more thorough you are, the less likely you will have a bug that is not caught and less impact on your functionality points. It is a good idea to have one person in your group designated to do this and the others to do the finishing touch on your application.

# Test Case

## This section is a listing of each functionality that you plan to test, the expected input, the expected output, whether the test passed or not, and whether the issue has been fixed. Again, your site can have errors, but if it is not indicated here, then it will impact your overall functionality score. Each test case should have a happy path and an error path. Your application should handle errors gracefully. There can be more than this, but for the scope of this project, I will only be expecting these two cases. Use the following table if needed. You can also create an Excel spreadsheet if you want.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| Test Case ID | Functionality | Expected Input | Expected Output/ Pass Condition | Impact | Pass/Fail | Fixed? |
| Numerical ID to tie the test runs | The functionality to be tested | The parameters (form fields) | The behavior that is expected with the given parameter | The severity to the application if the test failed. Is it an application breaking error? Or is it a minor nuisance? | This should indicate passed if both cases passed | This should be yes if the error was fixed and there should be an explanation as to why the error was not fixed if left in a state of error. |
| 1 | Login | [Someone@Example.com](mailto:Someone@Example.com)  Password123 | Login | Application breaking | Pass |  |
| 2 | Logout | None | Logout user | Minor | Pass |  |
| 3 | Create Class | ICS-326-A  Test class  All users  Construction.jpg | Create class and return to home screen | High | Pass |  |
| 4 | Modify Class | ICS-326-A  Test class test  All users  Chemistry\_logo.jpg | Modify class and return to home screen | High | Pass |  |
| 5 | Delete Class | Click delete | Delete and return to home screen | High | Pass |  |
| 6 | Create post | The Dark Knight Rises  It has been eight years since Batman (Christian Bale), in collusion with Commissioner Gordon (Gary Oldman), vanished into the night. Assuming responsibility for the death of Harvey Dent, Batman sacrificed everything for what he and Gordon hoped would be the greater good.  Abogado.jpg | Create post and return to comments page | High | Pass |  |
| 7 | Comment | Luke Skywalker FTW! | Save comment to user post | High | Pass |  |
| 8 | Return to home page | Click homepage button | Return to home page | High | Pass |  |
| 9 | Modify class without changing image | ICS-326-A  Test class test  All users | Modify class and return to home screen | High | Pass |  |
| 10 | Modify user name | Johnny | Change user name and update screen | Low | Pass |  |
| 11 | Modify user password | Password1 | Change password and be able to use that password to login | High | Pass |  |

# Test Run

Each test run shall be recorded and tied to the id of each test case. Use the following table if needed. You can also create an Excel spreadsheet if you want.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| RunID | Test Id | Inputs | Output | Pass/fail | Fixed |
| An id that you can use to refer to | The Id of the Specification you are testing | The parameters used | The actual behavior | Does the output match the expected behavior? | Was the issue addressed if there was an error? Leave blank if passed. |
| 1 | 1 | [Someone@Example.com](mailto:Someone@Example.com)  Password123 | Logged in | Pass |  |
| 2 | 1 | [Rafiki@gmail.com](mailto:Rafiki@gmail.com) | Logged in | Pass |  |
| 3 | 1 | [Donny@Appleseed.com](mailto:Donny@Appleseed.com) | Logged in | Pass |  |
| 4 | 2 |  | Logged out | Pass |  |
| 5 | 3 | ICS-326-A  Test class  All users  Construction.jpg | Created class | Pass |  |
| 6 | 3 | ICS-867-BA  Test  All  Psych.png | Created class | Pass |  |
| 7 | 4 | ICS-326-A  Test class test  All users  Chemistry\_logo.jpg | Modified class | Pass |  |
| 8 | 4 | ICS-326-ABC  Test class test  All users  Chemistry\_logo.jpg | Modified class | Pass |  |
| 9 | 4 | ICS-326-A  Test class test test  All users  construction.jpg | Modified class | Pass |  |
| 10 | 5 |  | Deleted class and all associated comments, posts, and relationships | Pass |  |
| 11 | 5 |  | Deleted class and all associated comments, posts, and relationships | Pass |  |
| 12 | 6 | The Dark Knight Rises  Batman  Abogado.jpg | Created post as expected | Pass |  |
| 13 | 6 | Super Tuesday  America  Flag.png | Created post as expect | Pass |  |
| 14 | 7 | Test comment | Left comment | Pass |  |
| 15 | 7 | Luke Skywalker FTW! | Left comment | Pass |  |
| 16 | 8 |  | Returned to home page | Pass |  |
| 17 | 9 | ICS-326-A  Test class test  All users | Modified class | Pass |  |
| 18 | 9 | ICS-326-ABC  Test class test  All users | Modified class | Pass |  |
| 19 | 9 | ICS-326-A  Test class test test  All users | Modified class | Pass |  |
| 20 | 10 | Johhny | Modified user name | Pass |  |
| 21 | 10 | Donny | Modified user name | Pass |  |
| 22 | 10 | Rafiki; | Modified user name | Pass |  |
| 23 | 11 | Password1 | Modified password; was able to login with new password | Pass |  |
| 24 | 11 | Password2 | Modified password; was able to login with new password | Pass |  |
| 25 | 11 | Password3 | Modified password; was able to login with new password | Pass |  |
| 26 | 11 | Password1 | Modified password; was able to login with new password | Pass |  |

# Test Results

This portion should summarize the overall test results and percentage passed. It should call out the errors that were not addressed and why it was left unaddressed. How you present this is up to you, but I will be expecting a summary of the testing methods and who was designated to do the testing. What issues were found and what was done to fix it.

During the development of our application, we did continuous testing and bug fixing. The documented portion of our testing occurred much later, shortly prior to submission. The testing recorded herein is therefore recorded to be 100% accurate. All errors that were found during prior testing bouts have been isolated and fixed by the team.

The methods of testing were strictly limited to those of which we came up with ourselves. When a piece of code or new functionality was checked in by either member of our incredibly small team, the other member took it upon themselves to test that functionality and report any errors or observations they had about the functionality or it’s output. It was in this way that the entire project was completed over the course of these short weeks.

Due to the lean and mean nature of our team, there was no designated tester, yet all members of the team were engaged in testing at all points throughout the project.

During the testing of our application, several errors were found and fixed. Below is a compliation of the errors and issues that were discussed, implemented, tested, and ultimately submitted.

* Validation on the sign\_up.php page is not field-specific.
* Unclear what the rules are for the user on the sign\_up page
* User profile picture?
* Footer isn’t always attached to the bottom of the screen
* Footer link to Metro isn’t centered
* When you save a comment, the comments section of the post auto-collapses
* Need to test adding class when there are multiple users in the db
* Need to test user posts/forums when there are multiple users posting
* ImageNotFound.png should be used anytime an image isn’t found
* Shouldn’t be forced to pick a new picture when modifying class
* Upload image on create\_user\_post needs to save file to project directory
* Add create user page
* Fix top navbar buttons and image
* Add admin role?
* Add admin option to create class?
* - header buttons
* - Loading classes that are unique to the user that is logged in
* - Loading user posts
* Changing user info changes user password by rehashing
* Name does update until you switch pages
* Comments don’t work?
* User post image
* Shouldn’t have to change image every time a class is edited
* Create class button moved
* Positioning of ui elements on edit user form
* Logout not working
* Header images not working
* Error when clicking home image
* Input field validation blocking login

We recommend that to test our application, you would follow the following test path:

**TEST PLAN:**

Phase 1 (setting up basic user):

1. Access site
2. Get redirected to the login page
3. Create new user
4. See no classes
5. Terminate session.

Phase 2 (admin functions):

1. Access site
2. Get redirected to the login page
3. Login with admin credentials
4. Create two classes
5. Make a post in each class
6. Return to home page
7. Click edit button on either class
8. Make modifications
9. Terminate session.

Phase 3 (shared content)

1. Access site
2. Get redirected to the login page
3. Login as user from phase 1
4. Observe classes have been created
5. Click view forum button on either class
6. Observe post created by the admin user
7. Comment on the admin’s post.
8. Create a new post
9. Return to home page
10. Click user’s name in the top navbar
11. Edit some information about the user (user name)
12. Return to home page
13. Access the other class
14. Repeat Phase 3 steps 6-8
15. Terminate session.

Phase 4 (additional functionality)

1. Access site
2. Get redirected to the login page
3. Login with admin credentials
4. Click view forum on either class
5. Observe basic user’s post
6. Return to home page
7. Click edit button on either class
8. Click delete
9. Observe class is deleted
10. Click view forum button on the remaining class
11. Comment on the user’s post