

Medifacts Test Plan

Team: Grace Owens, Laura Rodriguez, Sabrina Bauman, Bryan Cora, Nico Aleman

Part 1: Description of Test Plan

Since our product is a web application (webapp), our primary testing focus will be ensuring that several aspects of our webapp are functional. This includes features that may depend on other aspects of the app as well, such as a patient creating a post and a doctor being able to comment on said post. We have many different components to the app, so thorough testing of each component and their features will be our main goal. For example, we have a page to create an account. For this component, it will be necessary to test that when a user tries to create an account, they can provide their name, date of birth, email, password, demographics, and a user profile gets created. Then, they can use those credentials to log into their account. In this case, user input will be provided for the unit test upon account creation and then the functionality is verified.

As far as our timeline for testing goes, we want to work on our testing as we develop. We feel this is the best way to catch unintended code-effects. For example, if we add our fully fleshed out option to comment/reply to a post, and all of the sudden the test for creating a post fails, that means we need to dial back and see what mishap caused that cross-pollution. If we wait to test until the very end, we'll most likely be just verifying what we already know happens. It's important for us to use testing as a way to keep our code sharp and efficient.

Part 2: Test Case Descriptions

TC01.

TC01.1 Purpose: This test will check the 'Create Account' feature with new data, and ensure a new account was created

TC01.2 Description

1. Open Web App
2. Navigate to 'Profile' in top right corner.
3. Select 'Login'
4. On Login Page, select "Create Account"
5. Enter inputs
 - i. A new user object with credentials will be added/updated
6. Go to login page
7. Enter same credentials and click "Log In"
 - i. Page should navigate to welcome page.

TC01.3 Inputs: Email, password, demographic information (race, sex, etc)

TC01.4 Outputs: New user will be created, and page will go to welcome page after login.

TC01.5 Normal

TC01.6 Blackbox

TC01.7 Functional

TC01.8 Unit

TC02.

TC02.1 Purpose: This test will allow a user to add a diagnosis to their profile

TC02.2 Description

1. Open web app
2. Login to an account
3. Click the profile thumbnail
4. Click "edit profile"
5. On the dropdown menu under "diagnosis," click breast cancer
6. On the "stage" dropdown that opens, click "2"
7. Click "save"
8. Click the profile thumbnail
9. "Breast cancer – stage 2" should appear

TC02.3 Inputs

1. Username and password for login
2. Dropdown input for diagnosis and stage

TC02.4 Expected outputs/results: The user should have their diagnosis displayed as part of their profile

TC02.5 Normal

TC02.6 Blackbox

TC02.7 Functional

TC02.8 Unit

TC03.

TC03.1 Purpose: Ensure illnesses without stages do not have a stage option

TC03.2 Description

1. Open web app
2. Login to an account
3. Click the profile thumbnail
4. Click "edit profile"
5. On the dropdown menu under "diagnosis," click sickle-cell anemia
6. Confirm that no stage dropdown appears

TC03.3 Inputs

1. Username and password for login
2. Dropdown input for diagnosis

TC03.4 Expected outputs/results: The "stage" option does not appear

TC03.5 Normal

TC03.6 Blackbox

TC03.7 Functional

TC03.8 Unit

TC04.

TC04.1 Purpose: Account deletion

TC04.2 Description

1. Open web app
2. Login to an account
3. Click the profile thumbnail
4. Click "edit profile"
5. Click "delete" profile
6. Click "yes, I am sure"
7. Attempt to login to account
8. Ensure message is displayed "No account matching those credentials"

TC04.3 Inputs

1. Login input

TC04.4 Expected outputs/results: Error when attempting to login with deleted credentials

TC04.5 Normal

TC04.6 Blackbox

TC04.7 Functional

TC04.8 Unit

TC05. Create Post with Network Connection Loss

TC05.1 Purpose: Test whether post is uploaded to public if connection is lost and gained in the middle of the posting.

TC05.2 Description

1. Open web app
2. Navigate to "Create Post"
3. Enter Title
4. Enter content
5. Click "Publish"
6. Immediately turn internet off.
7. Wait 5 seconds
8. Turn internet on
9. Wait 5 minutes
10. Check if post was published.

TC05.3 Inputs: 1-Post title ("Pseudo Title") 2- Post content("Pseudo Content")

TC05.4 Expected outputs: Post will be published within ten minutes of regaining connection.

TC05.5 Abnormal

TC05.6 Blackbox

TC05.7 Functional

TC05.8 Unit

TC06. Concurrent Mass Endorsement of One Reply

TC06.1 Purpose: This test will ensure that all endorsements (likes) will be posted on a reply even if the endorsements are sent at the same time.

TC06.2 Description

1. Write script
 - i. Creates regular pseudo-user account.
 - ii. Creates multiple(at least 50) pseudo-accounts at the “Verified” level.
 - iii. Regular user posts Pseudo-post
 - iv. One verified account posts pseudo-reply
 - v. All other accounts “endorse” the reply.
2. Verify that endorsements are updated.

TC06.3 Inputs: Script

TC06.4 Expected outputs: Endorsement count will be updated.

TC06.5 Abnormal

TC06.6 Whitebox

TC06.7 Performance

TC06.8 Unit

TC07. Permission to Respond to Post if Medical Professional

TC07.1 Purpose – This test will allow medical professionals to reply to restricted posts.

TC07.2 Description

1. Open Web App
2. Login into medical professional account
3. Navigate to a Restricted Post
4. Select “Reply”
5. User’s status will be evaluated to see if they have permission to respond
6. Web app navigates to text entry page
7. Enter inputs
8. Select “Post”

TC07.3 Inputs

- Username and password for login
- Comment text

TC07.4 Expected outputs/results

- The user’s text should be added as a comment on the post

TC07.5 Normal

TC07.6 Blackbox

TC07.7 Functional

TC07.8 Integration

TC08.

TC08.1 Purpose – This test will deny non-medical professionals the ability to respond to restricted posts.

TC08.2 Description

1. Open Web App
2. Login into regular user account
3. Navigate to a Restricted Post
4. Select “Reply”
5. User’s status will be evaluated to see if they have permission to respond
6. Web app navigates to “Permission Denied” page
7. User returns to Post page

TC08.3 Inputs

- Username and password for login

TC08.4 Expected outputs/results

- The user is denied permission to comment on the post

TC08.5 Abnormal

TC08.6 Blackbox

TC08.7 Functional

TC08.8 Integration

TC09.

TC09.1 Purpose – This test will hide material (posts/comments) containing any of the user's blacklisted terms / topics.

TC09.2 Description

1. Open Web App
2. Login into account
3. Navigate to Account Settings
4. Enter the applicable undesired topic's key word into the "Blocked Topics" field
5. Apply the new settings
6. Search for threads with the blocked topic

TC09.3 Inputs

- Username and password for login
- Key word for a topic to block with known existing threads (so you know the feature is functioning if those known threads are hidden)

TC09.4 Expected outputs/results

- No search results should populate when searching for the blacklisted topic, indicating that all mentions of this topic are hidden

TC09.5 Normal

TC09.6 Blackbox

TC09.7 Functional

TC09.8 Unit

TC10.

TC10.1 Purpose – This test will completely delete a user's account and associated activity (posts, replies, etc.)

TC10.2 Description

1. Open Web App
2. Login into account
3. Navigate to Account Settings
4. Select and Confirm "Permanently Delete Account"
5. Search for activity from the applicable user (search User themselves)
6. Search for known contributions from the applicable user (search for content, NOT the actual user)

TC10.3 Inputs

- Username and password for login
- Key phrase(s) to search for known activity from user (threads, replies, etc.)

TC10.4 Expected outputs/results

- No search results should populate when searching for removed user
- Any activity from the user in existing threads should be replaced with text stating that the user and their activity has been removed

TC10.5 Normal

TC10.6 Blackbox

TC10.7 Functional

TC10.8 Unit

	Normal / Abnormal	Blackbox / Whitebox	Functional / Performance	Unit / Integration
TC01	Normal	Blackbox	Functional	Unit
TC02	Normal	Blackbox	Functional	Unit
TC03	Normal	Blackbox	Functional	Unit
TC04	Normal	Blackbox	Functional	Unit
TC05	Abnormal	Blackbox	Functional	Unit
TC06	Abnormal	Whitebox	Performance	Unit
TC07	Normal	Blackbox	Functional	Integration
TC08	Abnormal	Blackbox	Functional	Integration
TC09	Normal	Blackbox	Functional	Unit
TC10	Normal	Blackbox	Functional	Unit