**Test Cases Login**

**Test Case 1.1: Navigate to Login page**

Input: Clear cookies, navigate to page, press login link.

Output: The form for login is shown

**Test Case 1.2: Try to login without credentials**

Input: Test Case 1.1**.** Leave all fields empty. Click login button.

Output: Error Message: Form is shown. The error message “Username is missing” is shown.

**Test Case 1.3: Failed login with only username**

Input: Test Case 1.1**.**Input Username, leave password empty. Click login button,

Output: Error Message: Form is shown. The error message “Password is missing” is shown.

**Test Case 1.4: Failed login with only password**

Input: Test Case 1.1**.**Input password, leave username empty. Click login button,

Output: Error Message: Form is shown. The error message “Username is missing” is shown.

**Test Case 1.5: Failed login with correct username, incorrect password**

Input: Test Case 1.1**.**Input correct username, such as Admin input incorrect password. Click login button,

Output: Error Message: Form is shown. Username is still filled in. The error message “Wrong name or password” is shown.

**Test Case 1.6: Failed login with correct password, incorrect username**

Input: Test Case 1.1**.**Input incorrect username, input correct password such as Password. Click login button,

Output: Error Message: Form is shown. The error message “Wrong name or password” is shown.

**Test Case 1.7: Successful login**

Input: Test Case 1.1**.** Input correct username, such as Admin, input correct password such as Password. Click login button.

Output: User is redirected to upload page. Header Upload Image is shown. Form for uploading image is shown.

**Test Case 1.8: Still logged in on Reload**

Input: Test Case 1.1**.** Test Case 1.7**.**Reload the page using f5

Output: Error Message: Form is shown. The error message “Wrong name or password” is shown.

**Test Case 1.8: Still logged in on Reload**

Input: Test Case 1.1**.** Test Case 1.7**.**Reload the page by selecting URL and pressing enter.

Output: Error Message: Form is shown. The error message “Wrong name or password” is shown.

**Test Case 1.9 Stilled logged in in another tab**

Input: Test Case 1.1**.**Test Case 1.7**.** Open another tab in the same browser and navigate to login.

Output: User is redirected to upload page. Header Upload Image is shown. Form for uploading image is shown.

**Test Case 1.10: Logout.**

Input: Test Case 1.1**.**Test Case 1.7**.** Navigate to logout page via logout link. Click logout button.

Output: User is redirected to login page.

**Test Cases Register**

**Test Case 2.1**

Input: navigate to page, press register link.

Output: The form for registration is shown

**Test Case 2.2 Register without any credentials fails**

Input:Test Case 2.1. Click "Register" button without filling in any fields

Output:Message: ”Username has too few characters, at least 3 characters.Username has too few characters, at least 3 characters.Password has too few characters, at least 6 characters.Passwords do not match". The text "Not logged in", is shown.

**Test Case 2.3: Register without passwords fails**

Input: Test Case 2.1.A valid username which is at least 3 characters and has not been registered before. Click register button without filling in password.

Output: Error Message: Form is shown. The error message “Password has too few characters, at least 6 characters. Passwords do not match” is shown.

**Test Case 2.4 Register with short username fails**

Input:Test Case 2.1.An invalid username which is shorter than 3 characters, and two matching passwords greater than 6 characters. Click the register button.

Output: Error Message: Username has too few characters, at least 3 characters.

**Test Case 2.5 Register with short password fails**

Input: Test Case 2.1.A valid username which is at least 3 characters, and a password shorter than 6 characters. Repeat the password. Click the register button.

Output: Error Message: Password has too few characters, at least 6 characters.Passwords do not match

**Test Case 2.6 Register with different passwords fails**

Input:Test Case 2.1.A valid username which is at least 3 characters, and a password greater than 6 characters. Input another, different password greater than 6 characters. Click the register button.

Output: Error Message: Passwords do not match

**Test Case 2.7 Register with existing username fails**

Input: Test Case 2.1.A valid, already existing username such as Admin and a password greater than 6 characters. Repeat the password.

Output: Error Message: User exists, pick another username.

**Test Case 2.8 Register with invalid characters in username fails**

Input: Test Case 2.1.An invalid username, for example a username containing html tags, and a password greater than 6 characters. Repeat the password.

Output: Error Message: Username contains invalid characters

**Test Cases Gallery**

**Test Case 3.1: Navigate to gallery page**

Input: Navigate to gallery page

Output: Header Meme Gallery is shown. Content is previewed from the database, with images that are not broken and description of the content.

**Test Case 3.2: Click on content in the gallery**

Input: Test Case 3.1.Click on one of the images in the gallery.

Output: Content title, image, description are shown. Form for submitting comments are shown. Comments are shown if such exist.

**Test Cases Content**

**Test Case 4.1 Navigate to content**

Input: Navigate to the content, via an image link in the gallery (see Test Case 3.2) or manipulating the URL to be “?content&ID=” and an valid content ID.

Output: Content title, image, description are shown. Form for submitting comments are shown. Comments are shown if such exist.

**Test Case 4.2 Navigate to content with invalid content**

Input: Test Case 4.1.Navigate to content by manipulating the URL to be “?content&ID=” and an invalid content ID.

Output: Error Message: Oops, something went wrong.This content does not seem to exist

**Test Cases Upload**

**Test Case 5.1 Navigate to upload when logged in**

Input: Navigate to the upload page, via the link Upload content.

Output: Header Upload Image. Form to upload files is shown.

**Test Case 5.2 Navigate to upload when NOT logged in**

Input: Navigate to the upload page, by manipulating the URL to “?admin”

Output: User is redirected to gallery page. See Test case 3.1

**Test Case 5.3 Upload file of incorrect type fails**

Input: Test Case 5.1. Click the upload button, choose file of incorrect extension (anything but png/jpg/jpeg) and submit.

Output: Error Message: Invalid file extension. Only png, jpg, jpeg allowed.

**Test Case 5.4 Upload file of correct type**

Input: Test Case 5.1. Click the upload button, choose file of correct extension (png/jpg/jpeg) and submit.

Output: The selected image is previewed; form for adding text is shown.

**Test Case 5.4 Upload file of correct type**

Input: Test Case 5.1. Click the upload button, choose file of correct extension (png/jpg/jpeg) and submit.

Output: The selected image is previewed; form for adding text is shown.

**Test Case 5.5 Manipulation of the URL**

Input: Test Case 5.1, or navigating to admin by manipulating the URL, with an invalid image source in the arguments.

Output: Error message: Oops something went wrong.

**Test Case 5.6 Add text to Image**

Input: Test Case 5.1. Test Case 5.4. Text input(s) are filled in, preview button is pressed.

Output: Header Save Content is shown. The image is previewed with the text added to it. Inputs for content title and description are shown.

**Test Case 5.7 Save with only title fails**

Input: Test Case 5.6. Title is filled in, but not description save button is pressed.

Output: Error message: All fields must be filled in. Header Save Content is shown. The image is previewed with the text added to it. Inputs for content title and description are shown.

**Test Case 5.8 Save with only description fails**

Input: Test Case 5.6. Description is filled in, but not title, save button is pressed.

Output: Error message: All fields must be filled in. Header Save Content is shown. The image is previewed with the text added to it. Inputs for content title and description are shown.

**Test Case 5.9 Save content**

Input: Test Case 5.6. Title and description is filled in, save button is pressed.

Output: Header Meme Gallery is shown. Content is previewed from the database, with images that are not broken and description of the content. Saved content can be found in the gallery.