

Non-functional & Functional Security Test Cases

Sprint 1:

Use case: *As a user, I want to register, so that I get a dynamic experience.*

Test Case #	F-S1000
Test Item	Ensure user can successfully register an account.
Pre-Conditions	Must first be signed out on the website.
Post-Conditions	The account fully registered into the system.
Input Specifications	<ul style="list-style-type: none">• Type in Username• Type in Email• Type in password• Click register button
Expected Output Specifications	<ul style="list-style-type: none">• Confirmation screen that the account is registered• A new account is recorded into database
Pass/Fail Criteria	<ul style="list-style-type: none">• The user can type in and enter into the input fields• An account is recorded into the database using those inputs
Assumptions and Constraints	<ul style="list-style-type: none">• User types in an existing email
Dependencies	N/A

Test Case #	NF-S1000
Test Item	Securely register for an account
Pre-Conditions	<ul style="list-style-type: none">• user is trying to register for an account• User must be first signed out
Post-Conditions	<ul style="list-style-type: none">• the creation of an account is not exposed
Input Specifications	<ul style="list-style-type: none">• Type in Username• Type in Email• Type in password• Click register button
Expected Output Specifications	<ul style="list-style-type: none">• error screen if account creation process was insecure• Account is made with no signs of vulnerabilities in security

Pass/Fail Criteria	<ul style="list-style-type: none"> fails if user information is retrievable through sources outside of this system
Assumptions and Constraints	<ul style="list-style-type: none"> Assume user is creating an account and not using OAuth
Dependencies	<ul style="list-style-type: none"> N/A

Use case: *As a user, I want to login, so that I can return to my account.*

Test Case #	F-S1001
Test Item	Logging into the website.
Pre-Conditions	<ul style="list-style-type: none"> Not currently signed in on the website
Post-Conditions	<ul style="list-style-type: none"> User signs out of website when done
Input Specifications	<ul style="list-style-type: none"> Type in Email Type in Password Click login button Click sign out button
Expected Output Specifications	<ul style="list-style-type: none"> The website appearance and information tailored uniquely to the user
Pass/Fail Criteria	<ul style="list-style-type: none"> Fails if the website in the signed out state remains the same when signed in Information unique to the user appears Fails if signing out button does not change the screen to its default signed out appearance
Assumptions and Constraints	<ul style="list-style-type: none"> User has a registered account
Dependencies	F-S1000

Test Case #	NF-S1001
Test Item	Securely login to website
Pre-Conditions	<ul style="list-style-type: none"> User must be first signed out
Post-Conditions	<ul style="list-style-type: none"> User is logged in without user credentials not exposed to outside sources once logged in

Input Specifications	<ul style="list-style-type: none"> • Type in Email • Type in Password • Click login button
Expected Output Specifications	<ul style="list-style-type: none"> • an error screen if after user enters credentials the process to authenticate is insecure • User logs in with no vulnerabilities in security during the process
Pass/Fail Criteria	<ul style="list-style-type: none"> • fails if authentication process exposes user credentials to sources outside of the system
Assumptions and Constraints	<ul style="list-style-type: none"> • User has a registered account
Dependencies	F-S1000

Use case: As a user, I want to login with Google gmail account, so that I don't have to create and remember another password.

Test Case #	F-S1000
Test Item	Logging in with Gmail account.
Pre-Conditions	<ul style="list-style-type: none">• Not signed into the website
Post-Conditions	<ul style="list-style-type: none">• User successfully signs out from website
Input Specifications	<ul style="list-style-type: none">• Signing in to google email• Button to sign in to gmail• Clicking sign out button
Expected Output Specifications	<ul style="list-style-type: none">• The website appearance and information tailored uniquely to the user
Pass/Fail Criteria	<ul style="list-style-type: none">• Fails if website in its signed out state remains the same even when logged in to gmail• Information unique to the user appears• Sign out button does not change the site to its default signed out state
Assumptions and Constraints	<ul style="list-style-type: none">• User has a gmail account
Dependencies	<ul style="list-style-type: none">• N/A

Test Case #	NF-S1000
Test Item	Securely use gmail account for login
Pre-Conditions	<ul style="list-style-type: none">• Not signed into the website
Post-Conditions	<ul style="list-style-type: none">• gmail information is not insecurely exposed after gmail account is used to login
Input Specifications	<ul style="list-style-type: none">• login with gmail button
Expected Output Specifications	<ul style="list-style-type: none">• error screen that triggers in the middle of authentication process if it is insecure• User is signed in without gmail information being exposed
Pass/Fail Criteria	<ul style="list-style-type: none">• fails if gmail credentials are not exposed
Assumptions and Constraints	<ul style="list-style-type: none">• User has a gmail account

Dependencies	<ul style="list-style-type: none"> • N/A
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Use cases: *As a user, I want be able to reset my password, so that I don't get locked out of my account if I forget my credentials.*

Test Case #	F-S1000
Test Item	Resetting password
Pre-Conditions	<ul style="list-style-type: none"> • Singed out of website • Has an account registered to system
Post-Conditions	<ul style="list-style-type: none"> • Password gets updated in the user's record inside database
Input Specifications	<ul style="list-style-type: none"> • Type in email • Clicking the resend button • Type in new password • Clicking reset password button
Expected Output Specifications	<ul style="list-style-type: none"> • Confirmation that password changed • Password in database is changed
Pass/Fail Criteria	<ul style="list-style-type: none"> • Pass if password gets updated in database • User can type into input fields • Resend buttons emails the link • The link sent in works • Clicking reset password button works
Assumptions and Constraints	<ul style="list-style-type: none"> • User has a registered account
Dependencies	<ul style="list-style-type: none"> • N/A

Test Case #	NF-S1000
Test Item	Securely change the password
Pre-Conditions	<ul style="list-style-type: none"> • Singed out of website
Post-Conditions	<ul style="list-style-type: none"> • the new password made is not exposed outside of the system
Input Specifications	<ul style="list-style-type: none"> • Type in email

	<ul style="list-style-type: none"> • Clicking the resend button • Type in new password • Clicking reset password button
Expected Output Specifications	<ul style="list-style-type: none"> • error screen when process of updating password is insecure • Password is updated without it being leaked
Pass/Fail Criteria	<ul style="list-style-type: none"> • fails if new password made is exposed to sources outside of the system • Fails if the emailed link is exposed
Assumptions and Constraints	<ul style="list-style-type: none"> • User has a registered account
Dependencies	<ul style="list-style-type: none"> • N/A

Use cases: As a user, I want to be able to create, update, and delete bucket list items so that I can reach my goals.

Test Case #	F-S1000
Test Item	Create, update, delete bucket list item
Pre-Conditions	<ul style="list-style-type: none"> • Signed into the website
Post-Conditions	<ul style="list-style-type: none"> • User has an updated bucket list
Input Specifications	<ul style="list-style-type: none"> • Type in a bucket list item • Clicking delete button • Clicking edit button • Clicking bucket list button in navigation bar
Expected Output Specifications	<ul style="list-style-type: none"> • Visible changes to bucket list page <ul style="list-style-type: none"> ○ Added items to list ○ Items removed ○ Items changed
Pass/Fail Criteria	<ul style="list-style-type: none"> • Items added to list • Items added into database • Items removed to list • Items removed from database • Items changed on the list • The change of an item is updated on database • User can type into input field

	<ul style="list-style-type: none"> • Delete button works • Edit button works • bucket list button in navigation bar works
Assumptions and Constraints	<ul style="list-style-type: none"> • Assume user interacting with CRUD functions in current session
Dependencies	<ul style="list-style-type: none"> • N/A

Test Case #	NF-S1000
Test Item	Submitting changes to bucket list is not slow
Pre-Conditions	<ul style="list-style-type: none"> • Signed into the website
Post-Conditions	<ul style="list-style-type: none"> • updated bucket
Input Specifications	<ul style="list-style-type: none"> • Type in a bucket list item • Clicking delete button • Clicking edit button • Clicking bucket list button in navigation bar
Expected Output Specifications	<ul style="list-style-type: none"> • bucket list is updated without slowing down
Pass/Fail Criteria	<ul style="list-style-type: none"> • pass if one change to bucket list is less than 2 seconds
Assumptions and Constraints	<ul style="list-style-type: none"> • assume data is updated in database
Dependencies	<ul style="list-style-type: none"> • N/A

Sprint 2:

Use cases: *As a user, I want be able to create a personal profile, so that people can know more about me.*

Test Case #	F-S2000
Test Item	Edit personal profile page.
Pre-Conditions	User has authenticated account.
Post-Conditions	Test user has been removed.
Input Specifications	<ul style="list-style-type: none">• upload profile image• edit bio
Expected Output Specifications	<ul style="list-style-type: none">• allow upload of an image successfully• enable successful update of user bio• rendering of personal profile page in edit mode
Pass/Fail Criteria	<ul style="list-style-type: none">• user can get response of profile page• upload a photo• edit a bio• successfully submit and see success response
Assumptions and Constraints	<ul style="list-style-type: none">• assume image size can be resized to amount• assume user uploads an appropriate profile image
Dependencies	F-S1000

Test Case #	NF-S2000
Test Item	Secure a user's profile editing page.
Pre-Conditions	Existing user is unauthorized.
Post-Conditions	Test user has been removed.
Input Specifications	<ul style="list-style-type: none">• unauthorized user attempts request to edit page
Expected Output Specifications	<ul style="list-style-type: none">• user is redirected• user gets response message stating unauthorized

Pass/Fail Criteria	<ul style="list-style-type: none"> • unauthorized user is redirected when trying to get page
Assumptions and Constraints	<ul style="list-style-type: none"> • assume that user knows url path to another user's edit profile page
Dependencies	F-S1000

Use cases: As a user, I want be able to have control over my account, so that I can control who can see my profile.

Test Case #	F-S2001
Test Item	Use user settings to dictate rendering.
Pre-Conditions	Authenticated user account
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none"> • user clicks on toggle to make account private
Expected Output Specifications	<ul style="list-style-type: none"> • receives a successful flash message in response
Pass/Fail Criteria	<ul style="list-style-type: none"> • toggle privacy settings in UI • reflect changes in database
Assumptions and Constraints	<ul style="list-style-type: none"> • assume user wants to set profile to private
Dependencies	F-S1000

Test Case #	NF-S2001
Test Item	Ensure fast toggle update for changing profile privacy settings
Pre-Conditions	Test User account created
Post-Conditions	Remove User account
Input Specifications	<ul style="list-style-type: none"> • user clicks on toggle to make account private
Expected Output Specifications	<ul style="list-style-type: none"> • successful toggle of privacy settings
Pass/Fail Criteria	<ul style="list-style-type: none"> • Update for privacy settings displayed <= 500ms

Assumptions and Constraints	<ul style="list-style-type: none"> assume user wants to change privacy settings
Dependencies	F-S1000

Use cases: *As a user, I want be able to have a personal and dynamic page, to see my past history and recent activity of my groups.*

Test Case #	F-S2002
Test Item	Display recent activity in activity feed.
Pre-Conditions	<ul style="list-style-type: none"> two users with authenticated accounts activity in accounts regarding new bucket list task
Post-Conditions	<ul style="list-style-type: none"> remove bucket list subscriptions remove test user accounts
Input Specifications	<ul style="list-style-type: none"> user clicks on Activity Feed page
Expected Output Specifications	<ul style="list-style-type: none"> display previous post based on most recent
Pass/Fail Criteria	<ul style="list-style-type: none"> previous post are populated and rendered
Assumptions and Constraints	<ul style="list-style-type: none"> authorized user previous post from friend group or recent activity
Dependencies	F-S1000

Test Case #	NF-S2002
Test Item	Ensure fast rendering of post in Activity Feed
Pre-Conditions	<ul style="list-style-type: none"> user account create test post
Post-Conditions	<ul style="list-style-type: none"> remove user account remove test post
Input Specifications	<ul style="list-style-type: none"> user clicks to view Activity Feed
Expected Output Specifications	<ul style="list-style-type: none"> user sees post in chronological order
Pass/Fail Criteria	<ul style="list-style-type: none"> display post <= 2 seconds

Assumptions and Constraints	<ul style="list-style-type: none"> assuming that post are already created
Dependencies	F-S1000

Use cases: *As a user, I want to connect with people with the same bucket list item, so that I can connect and accomplish more.*

Test Case #	F-S2003
Test Item	Enable the adding/removal of friends
Pre-Conditions	<ul style="list-style-type: none"> Two authenticated user accounts.
Post-Conditions	<ul style="list-style-type: none"> Remove authenticated accounts.
Input Specifications	<ul style="list-style-type: none"> user clicks to Friends page user sees public accounts user clicks to add friends
Expected Output Specifications	<ul style="list-style-type: none"> expect rendering of public accounts expect flash success message
Pass/Fail Criteria	<ul style="list-style-type: none"> flash success message shown successfully add friend to db
Assumptions and Constraints	<ul style="list-style-type: none"> assume public accounts existing assume friend acceptance
Dependencies	F-S1000

Test Case #	NF-S2003
Test Item	Ensure fast rendering of Public Accounts
Pre-Conditions	<ul style="list-style-type: none"> test user user has profile image,bio, and a bucket list
Post-Conditions	<ul style="list-style-type: none"> remove profile image, bio, and bucket list remove test user
Input Specifications	<ul style="list-style-type: none"> user views a public account
Expected Output Specifications	<ul style="list-style-type: none"> fast rendering to see the profile image

Pass/Fail Criteria	<ul style="list-style-type: none"> display list of public accounts <= 2 seconds
Assumptions and Constraints	<ul style="list-style-type: none"> assume user has a public account that attempting to view
Dependencies	F-S1000

Use cases: *As a user, I want to share new post with images and text, so that I can contribute to the group.*

Test Case #	F-S2004
Test Item	Create and display a post
Pre-Conditions	User test account created.
Post-Conditions	Remove User test account.
Input Specifications	<ul style="list-style-type: none"> user goes to Activity Feed page user uploads a photo user enters some text user clicks Post
Expected Output Specifications	<ul style="list-style-type: none"> new post shows up in Activity Feed displays image, text, and time created
Pass/Fail Criteria	<ul style="list-style-type: none"> new Post includes image, text, and date created changes are reflected in database
Assumptions and Constraints	<ul style="list-style-type: none"> Assume that user has an image to upload Assume image and text are appropriate
Dependencies	F-S1000

Test Case #	NF-S2004
Test Item	Ensure fast rendering of adding new post to Activity Feed
Pre-Conditions	<ul style="list-style-type: none"> test user
Post-Conditions	<ul style="list-style-type: none"> remove test user
Input Specifications	<ul style="list-style-type: none"> user submits a new post with an image and text
Expected Output Specifications	<ul style="list-style-type: none"> page successfully renders the post post info is reflected in the database

Pass/Fail Criteria	<ul style="list-style-type: none"> display new post <= 1 second
Assumptions and Constraints	<ul style="list-style-type: none"> assume that post is appropriate assume user has image to upload
Dependencies	F-S1000

Use cases: As a user, I want to like posts, so that I can show my support for other group members.

Test Case #	F-S2005
Test Item	Enable Like component for post
Pre-Conditions	<ul style="list-style-type: none"> two authenticated accounts Post and Activity Feed components are functional
Post-Conditions	<ul style="list-style-type: none"> Remove test post remove test accounts
Input Specifications	<ul style="list-style-type: none"> Click 'like' icon to perform event
Expected Output Specifications	<ul style="list-style-type: none"> expect component to render successfully 'like' to be reflected in database
Pass/Fail Criteria	<ul style="list-style-type: none"> component displays state of having been 'liked' post in database updates and shows recent like number
Assumptions and Constraints	<ul style="list-style-type: none"> Post has been created Post rendering successfully in Activity Feed
Dependencies	F-S1000

Test Case #	NF-S2005
Test Item	Ensure fast rendering of 'Like' component upon toggle
Pre-Conditions	<ul style="list-style-type: none"> test user test post
Post-Conditions	<ul style="list-style-type: none"> remove post remove user
Input Specifications	<ul style="list-style-type: none"> user clicks on like component

Expected Output Specifications	<ul style="list-style-type: none"> • post successfully renders the 'like' state • change is reflected in the database
Pass/Fail Criteria	<ul style="list-style-type: none"> • display toggle 'like' update ≤ 1 second • Fails if > 1 second or change is not rendered
Assumptions and Constraints	<ul style="list-style-type: none"> • assume post is appropriate • assume users are friends
Dependencies	F-S1000

Use cases: *As a user, I want to interact with other member's post with comments, so that I can respond and share with my groups.*

Test Case #	F-S2006
Test Item	Enable commenting on a post.
Pre-Conditions	<ul style="list-style-type: none"> • two authenticated user accounts • existing post
Post-Conditions	<ul style="list-style-type: none"> • removal of post • removal of test user accounts
Input Specifications	<ul style="list-style-type: none"> • click on comment component to render textarea and submit button • user enters text and presses submit
Expected Output Specifications	<ul style="list-style-type: none"> • comment is rendered under the post after submission
Pass/Fail Criteria	<ul style="list-style-type: none"> • comment successfully shown in Activity Feed • comment is reflected in database
Assumptions and Constraints	<ul style="list-style-type: none"> • Assume Activity Feed rendering post • Assume post exist
Dependencies	F-S1000

Test Case #	NF-S2006
Test Item	Ensure fast rendering of comment
Pre-Conditions	<ul style="list-style-type: none"> • two test users • post submitted

Post-Conditions	<ul style="list-style-type: none"> • remove test users • remove post • remove comment
Input Specifications	<ul style="list-style-type: none"> • user clicks to make a comment • user enters comment and submits
Expected Output Specifications	<ul style="list-style-type: none"> • successfully renders comment
Pass/Fail Criteria	<ul style="list-style-type: none"> • user can successfully submit a comment • see the change reflected • renders in ≤ 2 seconds
Assumptions and Constraints	<ul style="list-style-type: none"> • assume comment is appropriate
Dependencies	F-S1000

Sprint 3:

Use cases: *As a user, I want to be able to add/remove friends, so that I can further connect with other users.*

Test Case #	F-S3000
Test Item	User can a remove someone added as a friend.
Pre-Conditions	<ul style="list-style-type: none">• User is logged in and authenticated.• User has a friend
Post-Conditions	<ul style="list-style-type: none">• Both test accounts are removed
Input Specifications	<ul style="list-style-type: none">• Search for friend user on user search.• Select test friend to be removed.• Click on 'Remove as Friend' button
Expected Output Specifications	<ul style="list-style-type: none">• Current logged-in test user is no longer friends with the target test friend user.
Pass/Fail Criteria	<ul style="list-style-type: none">• Fails if the user cannot remove the test friend as a friend.
Assumptions and Constraints	<ul style="list-style-type: none">• Logged-in test user is already a friend with the target test friend.
Dependencies	F-S1001

Test Case #	NF-S3000
Test Item	User can add as many friends without performance problems client and server side.
Pre-Conditions	<ul style="list-style-type: none">• User is logged in.• There are countless test users as friends.• Server is in stable condition
Post-Conditions	<ul style="list-style-type: none">• Original test user is deleted.• Test friend accounts are deleted.
Input Specifications	<ul style="list-style-type: none">• Select user from user search.• Click 'Add Friend'• Repeat with multiple users• Repeat x1000, x10000, x100000
Expected Output Specifications	<ul style="list-style-type: none">• User should have exponential increases in number of friends without page loading times taking a hit.

	<ul style="list-style-type: none"> • Server should not have performance issues while performing the test.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fail if any page implementing the 'Friends' class has a longer load time than other pages. • Fail if AWS Server monitoring displays any performance issues.
Assumptions and Constraints	<ul style="list-style-type: none"> • Server is originally in a relatively stable condition. • AWS Monitoring services are working.
Dependencies	F-S1001

Use cases: *As a user, I want to be able to direct message my friends, so that I can get to know them better and make plans to accomplish bucket list items.*

Test Case #	F-S3001
Test Item	Messages should appear in chronological order.
Pre-Conditions	<ul style="list-style-type: none">• Both test users are friends.
Post-Conditions	<ul style="list-style-type: none">• Both test users are deleted.• Chat history between both users is deleted.
Input Specifications	<ul style="list-style-type: none">• User 1: Visits test friend page• User 1: Selects 'Message'• User 1: Sends random messages at random times• User 2: Selects message• User 2: Sends random messages at random times
Expected Output Specifications	<ul style="list-style-type: none">• Messages are displayed in the message page in ascending chronological order.• Messages have markers for the 'author'/'sender'
Pass/Fail Criteria	<ul style="list-style-type: none">• Fail if any of the test messages are not in ascending chronological order by YYYY-MM-DD-HH-SS
Assumptions and Constraints	<ul style="list-style-type: none">• Order of any two messages sent at the same time is not important.• One user cannot send two messages at the same time.
Dependencies	F-S1001

Test Case #	NF-S3001
Test Item	A conversation should have indefinite amount of messages without performance issues.
Pre-Conditions	<ul style="list-style-type: none">• Users are logged in• Users have an extent chat history (x10000+ messages)
Post-Conditions	<ul style="list-style-type: none">• Chat history between both users is deleted• Both users are deleted
Input Specifications	<ul style="list-style-type: none">• User 1: Visits the chat page• User 1: Refreshes the chat page multiple times

Expected Output Specifications	<ul style="list-style-type: none"> • The average time for refresh should be within 2 seconds of loading time for any other page.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fails if the average refresh time for chat page is greater than 2 seconds of site global average loading time.
Assumptions and Constraints	<ul style="list-style-type: none"> • AWS deployment services are in stable condition. • There are no other performance hindrances
Dependencies	F-S1001

Use cases: As a user, I want to be able to report offensive content, so that I can feel safe and respected.

Test Case #	F-S3002
Test Item	A user cannot report the same post multiple times.
Pre-Conditions	<ul style="list-style-type: none"> • User is logged in • Post to be reported exists • User has already reported the post.
Post-Conditions	<ul style="list-style-type: none"> • User is deleted. • Post is deleted. • Report is deleted.
Input Specifications	<ul style="list-style-type: none"> • User selects post from feed. • Clicks post options • Clicks on 'Report this post'
Expected Output Specifications	<ul style="list-style-type: none"> • User should be prompted whether or not they have reported the post prior to current attempt.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fails if user is able to make multiple reports of the same post.
Assumptions and Constraints	<ul style="list-style-type: none"> • N/A
Dependencies	F-S1001

Test Case #	NF-S3002
Test Item	Usability, a user should be able to navigate the report function to make a proper report as they seem fit.
Pre-Conditions	<ul style="list-style-type: none"> • User is logged in • Post has not been reported by the user prior to test.
Post-Conditions	<ul style="list-style-type: none"> • User is deleted. • Test post is deleted.
Input Specifications	<ul style="list-style-type: none"> • User should select options for post to report • User should select 'Report this post' • User should click tier-1 category for reporting • User should click tier-2 category for reporting • User should click tier-3 category for reporting, if any. • User should be able to enter extra details for report.

	<ul style="list-style-type: none"> • User should be able to click 'Submit Report' button
Expected Output Specifications	<ul style="list-style-type: none"> • User should receive confirmation with read-back details of their report.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fail if user cannot reach the report reason on their first attempt without backtracking. Options unintuitive.
Assumptions and Constraints	<ul style="list-style-type: none"> • Assumption that user can understand pre-determined categories for reporting.
Dependencies	F-S1001

Use cases: As a user, I want to see the recent activity of my friends, so that I can make new bucket list items and stay connected.

Test Case #	F-S3003
Test Item	Refreshing should update feed if new items are available.
Pre-Conditions	<ul style="list-style-type: none"> • User is logged in • User has friends with posts/activities
Post-Conditions	<ul style="list-style-type: none"> • User is deleted • Friends' test posts/activities are deleted • Friends' test accounts are deleted
Input Specifications	<ul style="list-style-type: none"> • User visits recent activity feed. • Branch 1: Browser refresh <ul style="list-style-type: none"> ◦ User should click built-in 'Refresh' button on their browser. • Branch 2: Site dynamic refresh <ul style="list-style-type: none"> ◦ User should scroll up when at top of activity feed.
Expected Output Specifications	<ul style="list-style-type: none"> • Activity feed should render new posts/activity items.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fails if refreshing does not render new post/activity items on user feed.
Assumptions and Constraints	<ul style="list-style-type: none"> • User's browser has a built-in refresh function.
Dependencies	F-S1001

Test Case #	NF-S3003
Test Item	User should be able to scroll their feed indefinitely without client-side performance hinderance.
Pre-Conditions	<ul style="list-style-type: none"> • User is logged in • User is at top-most feed item. • User's activity feed has large number of items to list.
Post-Conditions	<ul style="list-style-type: none"> • Feed is refreshed to reset loaded items.
Input Specifications	<ul style="list-style-type: none"> • User visits activity feed • User continuously scrolls down until no more available items.
Expected Output	<ul style="list-style-type: none"> • User CPU performance should not increase the further down

Specifications	the feed they are.
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fails if user's device CPU usage increases the further down they are on their feed.
Assumptions and Constraints	<ul style="list-style-type: none"> • No other CPU-intensive processed are being used.
Dependencies	F-S1001

Sprint 4:

Use cases: *As a user, I want to be able to find new bucket list items, so that I can have fun things to look forward to*

Test Case #	F-S4001
Test Item	Item Recommendations show up on feed
Pre-Conditions	<ul style="list-style-type: none">• User has authenticated account• Activity in users bucket list
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none">• Add items to Bucket list• Search random items to add to bucket list
Expected Output Specifications	<ul style="list-style-type: none">• Allow user to add items to bucket list• Recommend items according to users search• Allow user to add bucket list items to list
Pass/Fail Criteria	<ul style="list-style-type: none">• Fail if user is not able to add items to bucket list
Assumptions and Constraints	<ul style="list-style-type: none">• User has items in bucket list• User has search history• User has a authenticated account
Dependencies	<ul style="list-style-type: none">• N/A

Test Case #	NF-S4001
Test Item	Efficiency of item recommendations showing up
Pre-Conditions	<ul style="list-style-type: none">• User has authenticated account• User has items in users bucket list• Server is running
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none">• Add items to Bucket list• Search random items to add to bucket list• Refresh feed

Expected Output Specifications	<ul style="list-style-type: none"> • Feed should be updated in less than 2 sec for performance
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fail if feed takes too long to load
Assumptions and Constraints	<ul style="list-style-type: none"> • Server is up and running • User has previous search history
Dependencies	<ul style="list-style-type: none"> • N/A

Use cases: As a user, I want to learn about cool events, so that I can find events I did not know about.

Test Case #	F-S4002
Test Item	Event Recommendations show up on feed
Pre-Conditions	<ul style="list-style-type: none"> • User has authenticated account • Activity in users bucket list • Events related to those items
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none"> • Add items to bucket list • Search groups for those items • Refresh pages for recommendations
Expected Output Specifications	<ul style="list-style-type: none"> • User should see event recommendations in feed • User should be able to search recommendation genre
Pass/Fail Criteria	<ul style="list-style-type: none"> • User can add items to list • User gets event recommendations • User can select recommended events
Assumptions and Constraints	<ul style="list-style-type: none"> • User has items in bucket list • User has search history • User has a authenticated account
Dependencies	<ul style="list-style-type: none"> • N/A

Test Case #	NF-S4002
Test Item	Reliability of event recommendations

Pre-Conditions	<ul style="list-style-type: none"> • User has authenticated account • Activity in users bucket list • Server is running
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none"> • Add items to bucket list • Search groups for those items • Refresh pages for recommendations
Expected Output Specifications	<ul style="list-style-type: none"> • Events/feed should be updated in less that 2 sec for performance • Server should not fail to recommend events if multiple items added
Pass/Fail Criteria	<ul style="list-style-type: none"> • Fail to recommend events • Takes too long to update the feed • Server fail if multiple events added
Assumptions and Constraints	<ul style="list-style-type: none"> • Server is running • Events related to items are in database • User has bucket list items
Dependencies	<ul style="list-style-type: none"> • N/A

Use case: As a user, I want to meet new people with similar interest, so that I can have a bigger social circle.

Test Case #	F-S4003
Test Item	Friend Recommendations show up in friends list
Pre-Conditions	<ul style="list-style-type: none"> • User has authenticated account • User has friends • More than 2 user accounts • Users friends have friends
Post-Conditions	Remove test user account
Input Specifications	<ul style="list-style-type: none"> • User adds friends • User opens friends tab • User sees recommendations
Expected Output Specifications	<ul style="list-style-type: none"> • User sees friends as recommendations

Pass/Fail Criteria	User can add friends in recommendations to friends list
Assumptions and Constraints	<ul style="list-style-type: none"> • All Users have friends • All Users have an authenticated account
Dependencies	<ul style="list-style-type: none"> • N/A

Test Case #	NF-S4003
Test Item	Efficiency of Friend recommendations showing up
Pre-Conditions	<ul style="list-style-type: none"> • User has authenticated account • User has Friends with multiple friends(X1000) • Server is running
Post-Conditions	Delete test user accounts
Input Specifications	<ul style="list-style-type: none"> • User adds friends • User opens friends tab • User sees recommendations
Expected Output Specifications	<ul style="list-style-type: none"> • User sees friends as recommendations in less that 2 seconds • User should be able to add friends
Pass/Fail Criteria	<ul style="list-style-type: none"> • Server takes too long to load recommendations • User unable to add friends
Assumptions and Constraints	<ul style="list-style-type: none"> • Server is running • User has friends(x1000) • Friends have mutual friends
Dependencies	<ul style="list-style-type: none"> • N/A