Testing Plan

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Part A: Functional Testing

Sr No	Use Case	Positive Test	Negative Test
1	Signup/Login	 Valid signup Valid login 	Signup with pre-existing info Invalid login a. Wrong username b. Wrong password
2.	Homepage	Basic test of homepage with posts	Checking homepage without posts
3.	Friend Requests / Recommendations	Checking display recommendations	None
4	View User Page (Includes sending requests)	 Checking if appropriate user/page (with their posts) is being displayed Sending request to user/page 	 Checking page of user/page which is already a friend/being followed (Sending request to an already existing friend) Trying to view your own user page, should redirect to the user timeline.
5	Create Post as a User	Creating valid post	Trying to create a post with some missing data. This should not be created, and a prompt should show up instead
6	Create Post for Page	Creating valid post	Trying to create post with some missing data Trying to create post with non-admin account
7	Make comment on post	Creating a valid comment	Empty comment to be considered invalid

			User commenting on their own post shouldn't be possible
8	React on post	 Choosing reaction among those available Checking reversibility of reactions 	User reacting on their own post shouldn't be possible
9	Create Page	Creation of valid page	Create page with missing data
10	Edit Page	 Seeing if changes are visible to other user User's page should also get updated 	Page edits with missing info shouldn't be allowed
11	View Page	Basic test of page with posts	Checking page without posts
12	Create Group	Creation of valid group	Creating group with missing data
13	Add/Remove Members to/from Group	 Adding/removing members Non-admin shouldn't be able to see adding/removing of members 	Adding more members than specified limit (say 10)
14	Change Description/Profile Picture of Group	 Check if change is displayed Check that blank profile picture is allowed 	None
15	View Messages	Checking if latest messages are visible in chronological order	None
16	Send Message	Checking if sent message is visible to receiver, for both individual and group messages	Check that empty message is not sent
17	Upload Status	Successful upload	Trying to upload empty status should redirect to upload status page

1. Signup / Login:

- a. Users either sign up or log in.
- b. If the password is incorrect while logging in, an error message is displayed.

2. Homepage:

- a. User is redirected to this page after logging in.
- b. This displays the posts of the user's friends/followed pages in descending order.
- c. Each post would have a react and comment option below it.
- 3. Friend Requests / Recommendations (Includes accepting/rejecting requests):
 - a. Users can see a list of friend requests and can accept, reject or ignore (by scrolling down) each request.
- 4. View User Page (Includes sending requests):
 - a. User clicks on another user's name to navigate to the user's page.
 - b. If the user whose page is being viewed (userB) is not a friend of the user who is viewing the page (userA), then, an option to send friend requests is available. Otherwise, it is replaced by the word "You are Friends".
 - c. userB's posts are visible on this page sorted in descending order.
- 5. Create Post as a User:
 - a. Select type and upload/write content.
- 6. Create Post for Page
 - a. Select type and upload/write content.
 - b. If the logged in user is not an admin of the page, an error message is displayed.
- 7. Make comment on post
 - a. Embedded in viewing homepage/user timelines.
 - b. Enter text and submit.
- 8. React on post
 - a. Click on a react button to react/unreact.
- 9. Create Page
 - a. Create a page with name and description.
- 10. Edit Page
 - a. Change page name and/or description.
- 11. View Page
 - a. View page and posts posted by that page.
- 12. Create Group
 - a. Create a group along with description and/or profile picture.
- 13. Add/Remove Members to/from Group
 - a. Add members to the group or remove members from the group.
 - b. If the logged in user is not an admin of the group, then, the above fails.

14. Change Description/Profile Picture of Group

- a. Change description and or profile pictures of a group.
- b. If the logged in user is not an admin of the group, then, the above fails.

15. View Messages

- a. View a list of past conversations (between users and/or groups).
- b. Select a conversation from this list and view sent/received messages.

16. Send Message

- a. View a list of past conversations (between users and/or groups).
- b. Select a conversation to send a new message.
- c. Or click on create a new conversation.

17. Upload Status

a. Select content and upload text/photo/video.

Part B: Load Testing

We plan to make the following observations during Load Testing for our website, subject to the availability of time.

- 1. Increase the Number of HTTP Requests per second from 1 to 10⁵, and observe its performance on metrics such as latency.
- 2. We will observe latency on different forms such as Homepage, timelines recommendations page, Pages, and chat messages.
- 3. We will also observe latency with an increasing number of users and messages for the above views.