

Test Plan and Report: CacheMe

Team: CacheMe Team

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System Test Scenarios: Provide a list of system test scenarios. Ideally, the scenarios should relate to specific user stories and associated acceptance criteria.

A scenario is a list of system level interactions (including precise input and output) a user would follow to determine that each user story has been completed; i.e., all the acceptance criteria for a user story are met.

A. **User story 1:** As a developer I need access to the database so that I can work with necessary data in building the app.

a. Scenario 1: Start the app on ExpoGo:

No errors regarding the .env files, API keys, or connection to Firestore should be found.

b. Scenario 2: Change data on the database.

Check that the data changes on the app screen.

All tests passed for this user story at release.

B. **User story 2:** As a user, I want to be able to interact with the app so that I can click through the UI.

a. Scenario 1: Start the app on ExpoGo:

Click on any icon in the navigation bar at the bottom;

If the console.log acknowledge the click and the app doesn't crash:

Then pass

All tests passed for this user story at release.

C. **User story 3:** As a user, I want to be able to log in so that I can access data tied to my account.

a. Scenario 1: Start the app on ExpoGo:

Click on "Sign up":

Enter:

First name: aditya

Middle initial: a

Last name: mahajan

Username: adityam

Email: adi.mahajan15@gmail.com

Password: password

Click Sign Up

Go to the profile page to log out of the app.

b. Scenario 2:

Enter:

Email: adi.mahajan15@gmail.com

Password: password

Click login

Pass if login works

c. Scenario 3: Start the app on ExpoGo:

Click on "Sign up"

Enter in different combinations of input for the fields but leave one or more field(s) blank.

If you left any of the fields that are first name, last name, or middle name blank, you should still be able to click the sign in button.

If it takes you to the app, test passes.

If you leave the username, email, or password fields blank, the app alerts a sign up error and the test passes.

d. Scenario 4: Start the app on ExpoGo:

- i. Attempt to log in with account information that is not existent in our database. App should alert "Credentials do not match"
- ii. Attempt to log in without an email and only the password. App should alert "Please enter a valid email address".
- iii. Attempt to log in with incorrect account information (incorrect email or password). App should alert "Credentials do not match".

- e. Scenario 5: Go to the sign up page

Create an account with an email that has already been used for another account. App should alert “Account with that email already exists”.

All tests passed for this user story at release.

- D. **User story 4:** As a user I want a page with the static feed so I can see “static” caches other people “posted”.

- a. Scenario 1: Start the app on ExpoGo:

Login

You should see a feed of caches.

Try scrolling up and down.

You should see that posts greater than 5 km away are blurred and posts less than 5 km away remain visible.

Open the “cache” collection in the Firestore database.

For each post, check that the data stored in a cache document in the database matches the data that is being displayed on each cache on the feed.

Check that the number of posts in the database is equal to the number of posts shown in the feed.

All tests passed for this user story at release.

- E. **User story 5:** As a user I want a page with the map so that I can see it.

- a. Scenario 1: Start the app on ExpoGo:

Login

Click map icon on the bottom bar

If takes you to a map: pass

Else fail

All tests passed for this user story at release.

- F. **User story 6:** As a user I want a form so that I can create a post that can be seen on the feed.

- a. Scenario 1: Start the app on ExpoGo:
 - Login
 - Click the “+” button in the bottom middle that should take you to the Create Cache page.
 - Enter the caption “just a test”
 - Enter any photo
 - Click post and see if it appears on the feed.
 - The post should have 0 likes and 0 comments.
 - The post should display the correct distance away from you (0 km).
 - The post should display that it was posted a few seconds ago.
 - The post should have the correct text and image you added.
 - b. Scenario 2: Click the “+” button at the bottom to make another post.
 - Enter only text.
 - Click post and see if it appears on the feed. If so, test passes.
 - c. Scenario 3: Click the “+” button at the bottom to make another post.
 - Enter only an image.
 - Click post and see if it appears on the feed. If so, test passes.
 - d. Scenario 4: Click the “+” button at the bottom to make another post.
 - Add nothing and just hit the Post button.
 - App should alert “Add a picture or caption first!”
- All tests passed for this user story at release.

G. User story 7: As a user I want to have a username so that I am identifiable.

- a. Scenario 1: Start the app on ExpoGo:
 - Click “Sign up”
 - Choose a user name along with basic info.
 - Click the sign up button.
 - Go to profile page
 - If your username is displayed there as how you entered it, test passes
 - Else fail
- b. Scenario 2: Go to any of your posts.

Your username should appear correctly on your posts.

All tests passed for this user story at release.

H. **User story 8:** As a user I want to see posts as markers on the map and be able to click on them to view the post so that I can determine if I want to view or unlock it.

a. Scenario 1: Start the app on ExpoGo:

Login

Click on the map button on the navigation bar.

Look for a marker nearby you (within the 5 km radius).

Click on any one of them

If it brings you to the correct post (distance is correct) and you are able to view it then pass.

b. Scenario 2: Start the app on ExpoGo:

Login

Click on the comment button of any post in the feed to view it alone.

Click on the marker indicator.

If it takes you to the cache's correct location: pass

Else fail

c. Scenario 3: Start the app on ExpoGo:

Login

Click on any marker icon from a post in the feed

If it takes you to the cache's correct location: pass

Else fail

d. Scenario 4: Start the app on ExpoGo:

Login

Click on the map button on the navigation bar.

Look for a marker far from you (outside of the 5 km radius).

Click on any one of them.

If it brings you to the correct post (distance is correct) and you see that the cache is blurred, the test passes.

All tests passed for this user story at release.

I. **User story 9:** As a user, I want to be able to comment on posts to interact with other users

a. Scenario 1: Start the app on ExpoGo:

Login

Click on the comment icon of any post in the feed.

It should take you to a page of viewing the post you clicked on.

Check that the information about the post displayed is correct by matching it with the post you clicked on in the feed.

Check in the database if there are comments for the post you are looking at. If there are, the correct number of comments and correct comments made by the correct users should be shown under the post in the comment area. If there were no comments in the database for that post, nothing should show up in the comments area.

Then in the bottom text box enter your comment: testing123

The comment with text “testing123” should show up at the bottom of the list of comments with your correct username.

All tests passed for this user story at release.

J. **User story 10:** As a user, I want to be able to like posts to interact with other users.

a. Scenario 1: Like a post heart update

Login

See a post on the feed

Click the heart button and check if it changes to red

If it does update then pass

b. Scenario 2: Like a post number

Login

See a post on the feed

Click the heart button and check if the counter increments and decrements

If it does update then pass

c. Scenario 3: Like a post firebase

Login

See a post on the feed

Click the heart button and check if it changes the value “likeCounter” in
firebase (increment and decrement)

If it does update then pass

d. Scenario 4: Like a post heart update

Login

See a post on the feed

Click into single post view

Click the heart button and check if it changes to red

If it does update then pass

FAILED TEST

e. Scenario 5: Like a post heart update

Login

See a post on the feed

Like the post on the feed

Click into single post view

Check if the heart is already red

Click the heart button and check if it changes to white

If it does update then pass

Then exit and unlike it on feed and click in

Make sure the heart is white and not red (Failed part)

If all right then pass.

FAILED TEST

f. Scenario 6: Like a post number

Login

See a post on the feed

Click into single post view

Click the heart button and check if the counter increments and decrements

If it does update then pass

g. Scenario 7: Like a post firebase

Login

See a post on the feed

Click into single post view

Click the heart button and check if changes the value “likeCounter” in firebase (increment and decrement)

If it does update then pass

Not all tests passed for this user story at release (4, 5).

K. **User story 11:** As a user, I want to be able to see mine and other profiles so that I can check people’s profiles.

a. Scenario 1: Check if own profile works

Login

Click on your profile

Check that your profile picture is correct

Check that the post count and profile username is correct

If all right and no errors thrown then pass

b. Scenario 2: Check if friend profile works

Login

Click on their profile

Check that their profile picture is correct

Check that the post count and profile username is correct

If all right and no errors thrown then pass

c. Scenario 3: Create a new account and add a profile picture.

Create a new account.

Go to your profile.

It should currently show a default image for the profile picture.

Hit the edit profile button.

Add a picture for your profile.

Check that the profile picture is changed to the image you added.

Check that your posts, comments, etc have the same profile picture.

d. Scenario 4: Checking your profile feed.

Login

Click on your own profile

To pass you should see a feed of posts at the bottom

If it is scrollable and only has your own posts

Only the posts less than 5 km should be visible to you. The ones more than 5 km away should be blurred.

Then pass

All tests passed for this user story at release.

L. **User story 12:** As a user, I want to be able to make friends so that I can see their posts.

a. Scenario 1: Checking your friends.

Create a new account or log in to an existing account

Click on the profile page

If it is a newly created account, the number of friends should say 0.

If it was an existing account, check the firebase for the number of friends in the friends array. Make sure the number displayed matches.

b. Scenario 2: Adding friends

Login

Click on the profile and make note of the number of friends you currently have.

Find a post on the feed and click on the username to view their profile.

Check that they have any number 0 and above for friends

If not then fail

Then click on the add friend button. The button should show that you have added them.

Go back to your own profile and make sure your friend count went up by one.

If it works pass

Else fail

c. Scenario 3: Checking the feeds of other people.

Login

Click on a profile from the feed

To pass you should see a feed of posts at the bottom

If it is scrollable and only has their own posts

Only the posts less than 5 km should be visible to you. The ones more than 5 km away should be blurred.

Then pass

All tests passed for this user story at release.