

FoodReal Test Plan

Testing plan highlights

1. User Onboarding

- a. User will be taken through a series of screens to instruct them on signing up for FoodReal.
- b. User will be added to the Firebase Authentication system
- c. User profile will be added to the Firestore “Users” collection

2. Camera

- a. User is able to capture images with front and back cameras with one click
- b. User is able to switch between the front and back cameras

3. Posting

- a. User will be able to add a description to their pictures and press “send” button to post in on the public wall
- b. Posts will be saved into Cloud Firestore in “Meals” collection

4. Posts

- a. Posts will display the Username of the poster on the top left along with the posting time
- b. User will be able to press the heart button on the bottom right corner of the image to “like” the post
- c. User profile ID will be added to the “likes” array field in the Post database

5. Notifications

- a. User will be able to configure daily notification times to remind them of their meals
- b. Users will be able to set 3 times for breakfast, lunch, and dinner
- c. The app send push notifications on the user’s device at set times

Total estimated time to test: 18 minutes

Testing tools

- **Hardware:**

- Mac
- iPhone
 - Will be required to test the Camera and Posting features

- **Software:**

- Xcode
- Access to the Firebase console (required for database unit testing)
 - Request the FoodReal team to grant access

Testing instructions

User Onboarding

- Users will be taken through a series of screens to instruct them on signing up for FoodReal
- Users will be added to the Firebase Authentication system
- User profile will be added to the Firestore “Users” collection
- *Estimated time to test: 3 minutes*

Testing Instructions

1. Open the FoodReal App
 - a. If the app is at the posting wall, tap the profile icon on the top right of the screen to go to the settings page and tap the red “sign out” button
2. Follow onboarding instructions on screen
 - a. Onboarding is finished when user is taken back to the posting wall
3. Check Firebase Auth to confirm successful sign up
 - a. Go to “Authentication” section of the firebase console
 - b. Confirm that the new user’s email address is in the list of “identifiers”
 - i. Take note of the UID of the new user
4. Check Firestore “Users” collection to confirm successful profile creation
 - a. Go to “Firestore database” section of the firebase console
 - b. Select the “Users” collection of the database
 - c. Look for the new user in the collection
 - i. Check that all the inputted information is correctly added to the database
 - ii. Check that the “Auth ID” field corresponds to the UID from the previous section

Camera

- User is able to capture images with front and back cameras with one click
- User is able to switch between the front and back cameras
- *REQUIRES AN IPHONE*
- *Estimated time to test: 1 minute*

Testing Instructions

1. Open the FoodReal app and navigate to the posting wall
2. Tap the camera icon on the top left corner of the posting wall screen
3. Move device around to check if camera is working
4. Tap the circular double arrow icon to switch the front and back camera
5. Tap the white circle button to capture image
6. Verify image is captured with the preview displayed on the screen

Posting

- User will be able to add a description to their pictures and press “send” button to post in on the public wall
- Posts will be saved into Cloud Firestore in “Meals” collection
- *REQUIRES AN IPHONE*
- *Estimated time to test: 3 minutes*

Testing Instructions

1. Follow the “Camera” testing instructions first
2. When at the image preview screen, tap the “send” button to initiate posting
3. Check that the image is now visible on the posting wall as a new post
 - a. If image is not visible, try refreshing the screen by dragging down from the top until a smiley face appears
4. Check Firestore “Meals” collection to confirm it’s been added to the database
 - a. Go to “Firestore database” section of the firebase console
 - b. Select the “Meals” collection of the database
 - c. Look for the newly added post in the collection
 - d. Check Username, time, and description fields to confirm it’s accurate

Posts

- Posts will display the Username of the poster on the top left along with the posting time
- User will be able to press the heart button on the bottom right corner of the image to “like” the post
- User profile ID will be added to the “likes” array field in the Post database
- *Estimated time to test: 5 minutes*

Testing Instructions

5. Open the FoodReal app and navigate to the posting wall
6. Refresh screen by dragging down to view the latest post
7. Open Firestore “Meals” collection and check the corresponding post
 - a. Check the username, profile picture, and likes field to check if it matches the post displayed and the person who posted
 - b. Might want to make a new post with your own account to check
8. Tap the “like” button on the bottom right corner of the post image
9. Check the database to confirm that the user who “like” has been added to the “likes” array field

Notifications

- User will be able to configure daily notification times to remind them of their meals
 - Users will be able to set 3 times for breakfast, lunch, and dinner
 - The app send push notifications on the user's device at set times
 - *Estimated time to test: 5 minutes*
1. Open the FoodReal App
 - a. If the app is at the posting wall, tap the profile icon on the top right of the screen to go to the settings page and tap the red "Notifications" button
 2. Follow on screen instructions to set 3 times breakfast, lunch, and dinner
 - a. Might want to set it close to the current time for testing purposes
 3. Wait for the set time and confirm if the app sends push notifications to the device