# Milestone 5
## Picky Eater
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## User Acceptance Test Plan

The scope of our user acceptance testing includes the following:

- Normal log in procedure
- Creating an account
- Creating a meal
- Changing Password

Tested OS is Android 8.0.0 and up. Hardware is a Google Pixel phone.
The specific test plans for each of these cases are detailed below.

*Normal Log In Procedure*
> 1) User opens app
> 2) User enters email and password
> 3) User taps on "Sign In" button
> Expected Results: User is taken to "Creat Meal" screen on their account.

*Creating an account*
> 1) User opens app
> 2) User clicks "Create Account"
> 3) User fills in requested information and clicks "Create Account"
> 4) User now signs in to account using email and password
> Expected Results: User is able to sign in using new credentials

*Creating a meal*
> 1) From Create Meal screen, user enters desired food, nutrient criteria, and number of
>            meals
> 2) User clicks "Create Meal"
> 3) User clicks on the newly created meal tab
> Expected Results: User now has the correct number of meals in the tab, all of which are
>                         the type of food desired.

*Changing Password*
> 1) From Create Meal screen, user clicks on menu bar
> 2) User clicks "Settings"
> 3) User clicks "Change Password"
> 4) User enters new password
> 5) User clicks "Change Password"
> 6) User logs out
> 7) User attempts to log in using old password
> 7) User attempts to log in using new password
> Expected Results: User is able to log in using new password, and not old password.

## Automated Testing

In order to ensure that essential functions of the app do not break during development, we implemented some continuous testing. These tests are written using Espresso, which allows for integration testing methods in Android applications. We are testing the login feature and making sure that a user can enter their email and password to get to log in to the app correctly. We also test the opposite case, ensuring that an incorrect email and/or password does not allow a log in. In addition, we test the API call, and ensure that the text returned to given user parameters (Food type: Salad, Calories: 250, Protein: 30, Fat: 20, Meals:1) is always consistent and correct. Finally, we test the log out feature in order to ensure that a user is able to log out of their account. These tests are run on the Microsoft App Center, as shown in the figure below.