

# Week 08 Exercise

## User Authentication and Automated Tests

### Instructions

For your exercise, you are going to improve the demo Todo application found on the handout. You will also create automated tests for the application.

You should use the discussion code as a reference or template. Create a <exercise7\_surname>Flutter app and link it to the repository given to you by your instructor. (10 points)

### App Specifications

The application should have the following features:

1. Add more fields to the signup screen that will be saved along with the email address in Firestore (actual Firestore, not the fake firestore)
  - a. Firstname, Lastname
2. Implement input validation with proper UI response (error text or text field highlight) for the Login and Signup screen. Your app should check for the following:
  - a. Valid email address
  - b. Password must be at least 6 characters (set by Firebase Authentication)
  - c. Firstname and Lastname are required
3. List down at least two happy and unhappy paths each (use/test cases), minimum of 4 total
4. Using the mock Authentication and fake Firestore package, create automated tests for the paths you've identified

### Bonus

(1 pt) User Interface, User Experience