

# CMPT 275: Software Engineering I

## Fall 2017

### HW5 - Tutorial Document

### Project Group 2 - The Night Owls

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## **Revision History**

<b>Revision</b>	<b>Status</b>	<b>Publication / Revision Date</b>	<b>By</b>
1.0	Created.	12/01/2017	Karamveer Dhillon
1.1	Formatting and re-typing (entire document) to be consistent with other documents.	12/02/2017	Shawn Thai
1.2	In (3.3), removed the sentence stating that pressing “Go” will clear the Display Bar.	12/02/2017	Shawn Thai
1.3	Simplified the writing in (3) to avoid confusion about all the “key words.”	12/02/2017	Shawn Thai

## **1. Overview**

goTalk is an augmentative and assistive communication (AAC) app. It was designed to help non-verbal autistic children communicate and learn. The idea behind the app is to provide an interface for a child to quickly learn and use to effectively communicate.

The app consists of a Main Page with categorized pictographic buttons, which may be selected to construct a sentence or idea. The user is able to voice this sentence by pressing the Go button.

Additional features, such as the function to save and favourite buttons, grammar correction, and profile syncing to the cloud are also available in the Menu Window.

## 2. Registration and Login

Upon starting this app, a new user will be greeted with a login page. If the user has an existing goTalk account, they may login at this point by entering their credentials in the spaces provided and pressing the **Login** button. If the user has forgotten their account password, they may press the **Forgot your password?** Button. This will take the user to the **Password Recovery page**.

On the Password Recovery page, the user may enter the email they used to sign up for their goTalk account. They will be sent an email containing further instructions in order to recover their password. The user may need to wait for up to 2 minutes for this email to arrive.

If the user does not have a goTalk account, they may register for a new account by selecting the **Create a new account** option at the bottom of the screen. In order to create a goTalk account, the user will need to provide their first name, last name, a username, email address, and a password. goTalk will never share this information with anyone without your permission.

Once the user has logged in or registered, they will be taken to the **Main Screen**. The next time you open the app, you will be automatically logged in and taken to the Main Screen.

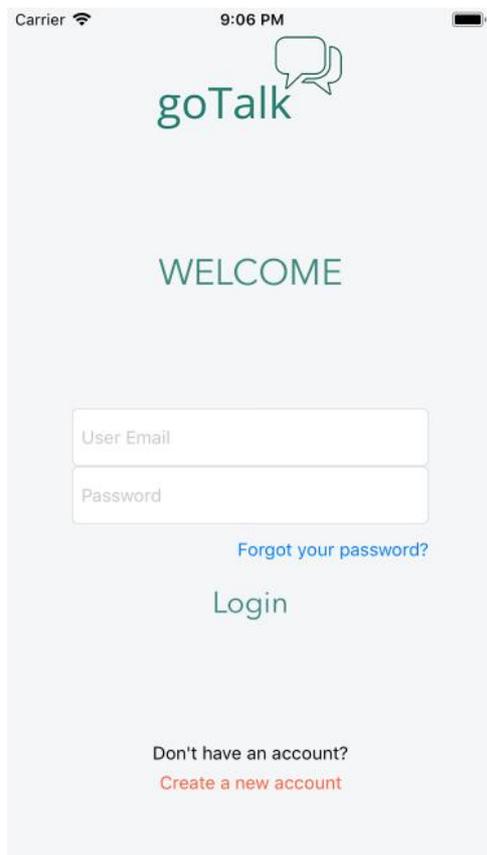


Figure 1: The Login Page

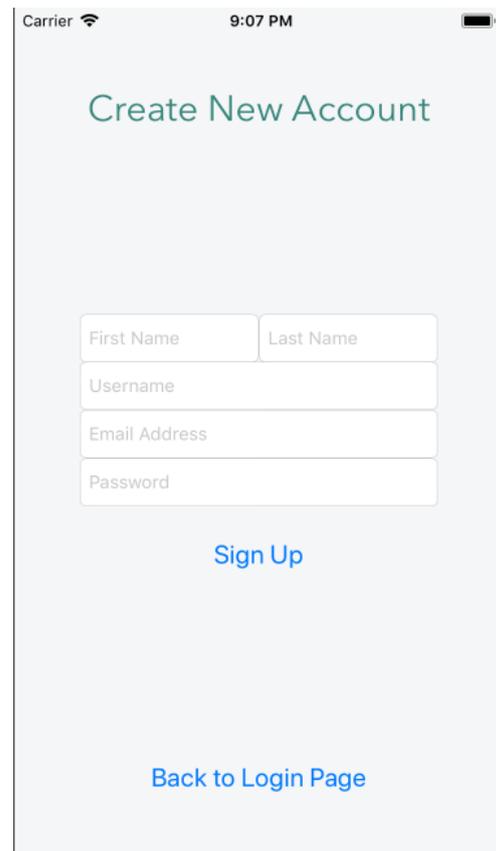


Figure 2: The Registration Page

### **3. The Main Screen**

The *Main Screen* is where the user will be able to create sentences and voice them, as well as access additional options via the Menu Window. There are five major elements present on the Main Screen: i) *Menu Button*, ii) *Display Bar*, iii) *Favourites Category, Categories*, and iv) the *Pictographic Buttons* section.

#### **3.1) Pictographic Buttons and Categories**

The *Pictographic Buttons* are located in their own section at the bottom of the Main Screen. These buttons are made up of the button's image, name and a heart icon. By pressing a Pictographic Button, its image will appear in the *Display Bar* at the top of the Main Screen. The Pictographic Buttons may be browsed by sliding the screen left or right. Additional Pictographic Buttons may be selected in order to create a sentence, expression, or idea.

The area above the Pictographic Buttons section contains a sliding display of blue folders, called the *Categories*. Each category is named after common objects, places or other speech elements. By selecting a category, related buttons contained within it will appear in the Pictographic Buttons section below. The left-most, static blue folder is the *Favourites Category*. This is a special category which contains a dynamic list of Pictographic Buttons which is customizable by the user.

#### **3.2) Favourites Category**

Each button has an unfilled heart icon located below it. Pressing this heart icon will fill it red. This notifies the user that the corresponding *Pictographic Button* has been added to the *Favourites Category*.

Upon selection, the Favourites Category displays all user-favourited Pictographic Buttons below it. These Pictographic Buttons may be used the same way as any other Pictographic Buttons and are used for quick and easy access.

Favourited Pictographic Buttons may also be un-favourited by pressing the corresponding filled heart icon in either the Favourites Category or in the original category.



Figure 3: The Main Page  
(General folder selected)

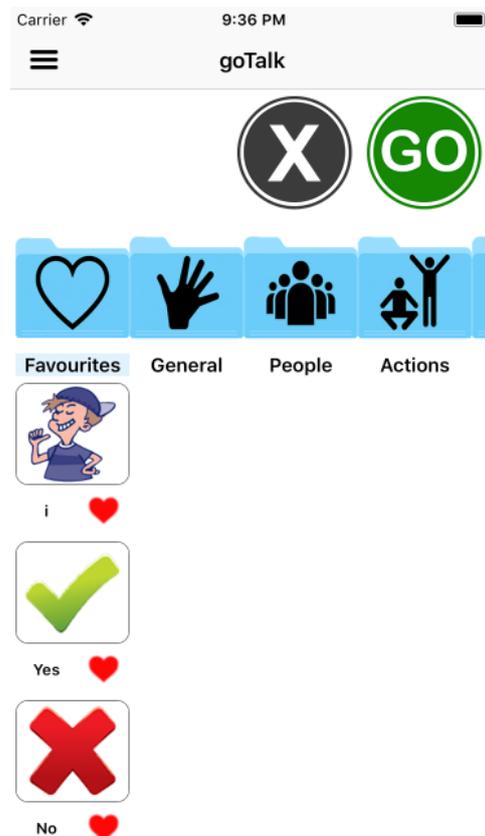


Figure 4: The Main Page  
(Favourites folder selected)

### 3.3) The Display Bar

The **Display Bar** is located at the top of the Main Screen. It contains a slidable blank space, which displays: i) any selected **Pictographic Buttons**, ii) a **Backspace Button** and iii) a **Go Button**.

Once the user has selected one or more Pictographic Buttons, they will appear in the blank space of the Display Bar.

The Backspace Button may be pressed to remove the last Pictographic Button present in the Display Bar.

The Go Button may be pressed to voice all the words currently present in the Display Bar.

## **4. The Menu Window**

The Menu Window appears by pressing the *Menu Button* located on the top left side of the Main Screen. The user may also use a swipe gesture from the extreme left of the device display to open the Menu Window. The Menu Window contains further options: i) *Sync*, ii) *Settings*, iii) *Help*, iv) *About*, and v) *Log Out*.

### **4.1) Sync**

Pressing the *Sync* option will save the current configuration of the user's profile (settings and favoured buttons) to the cloud. It is recommended that this be done often in case the host device malfunctions, or if the user would like to use goTalk on multiple devices. Once synced, the user's updated profile will be loaded every time the user logs in.

It is important for the user to remember that they must sync their data manually, as the app does not do this automatically.

### **4.2) Settings**

The *Settings* option navigates the user to the Settings Page, containing additional preferences that may be toggled, and the user's profile information.

### **4.3) Grammar Correction**

This feature can be accessed from the *Settings* page. Enabling this setting will turn on the grammar correction functionality.

This applies light grammar correction to the sentence created in the Display Bar. The intention of the grammar correction is not to completely change the user's input, but to slightly improve the output speech in terms of grammar. This setting is recommended if the user is using goTalk to communicate via short sentences.

### **4.4) Speak Selected Word**

This feature can be accessed from the *Settings* page. Enabling this setting will make goTalk voice each Pictographic Button as it is pressed before it is voiced by the Go Button in the Display Bar. This option is useful to check if the button being used is indeed the word the user wants to use.

#### 4.5) Scroll Back on Button Press

This feature can be accessed from the *Settings* page. Enabling this setting will make the sliding Categories section snap back to its default position after selecting a Pictographic Button. For example, if the user were to slide to the last Category and select a Pictographic Button, the Category section would slide back to its starting position (beginning with General next to the Favourites Category).

#### 4.6) Help

Selecting *Help* will open up the user's internet browser. It will direct them to the goTalk website, where they can find the FAQ and more helpful information.

#### 4.7) About

Selecting *About* will take the user to the About Page, which contains a summary of the app, as well as a link to the official goTalk website.

#### 4.8) Log Out

Selecting *Log Out* will log the user out of their current session with the goTalk app, and redirect them to the Login Page.

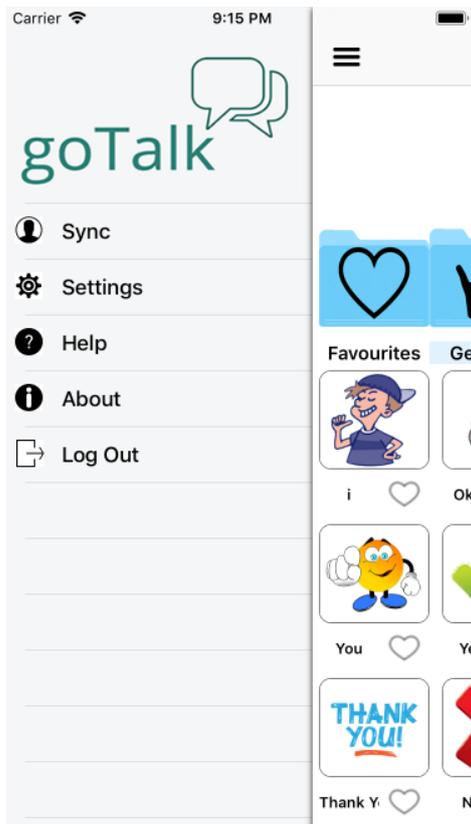


Figure 5: The Menu Window

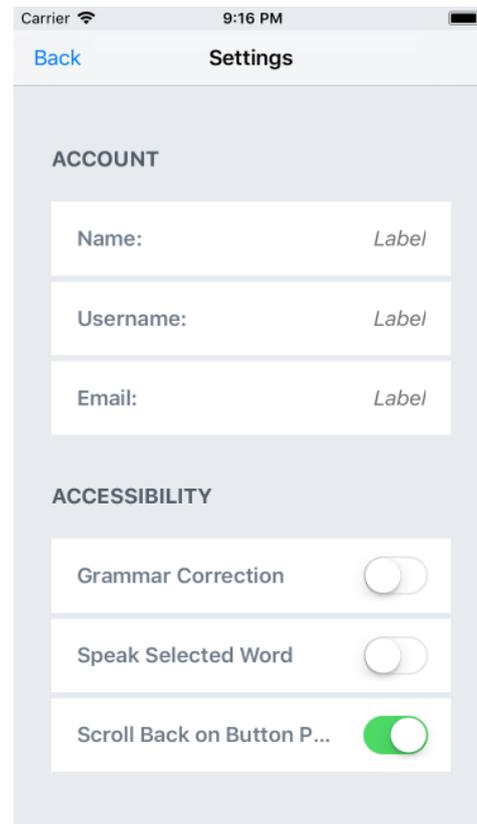


Figure 6: The Settings Page