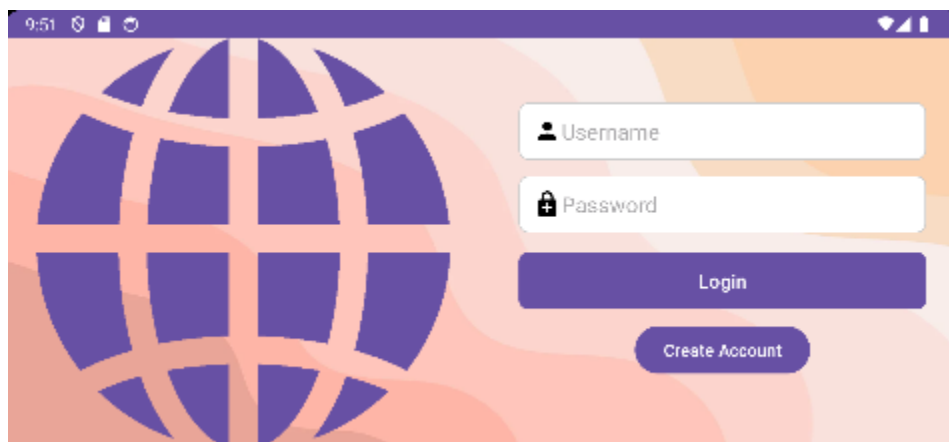
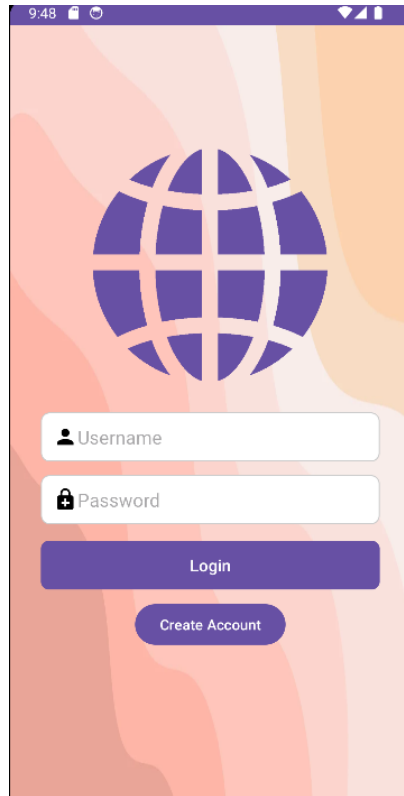


Statusphere Documentation

Explanation of the application's Structure and Functionality

Initialization Screen (Login Page):



Elements of Page:

1. Vector Logo that scales with screen size
 - A small XML file that Android Studio reads as vectorable.
2. Username Text Box
 - Complete with Vector Icon indicating user.
3. Password Text Box
 - Also Complete with Vector Icon Indicating Passcode.
4. Login Button
 - Button takes the input from Username and Password, establishes a connection to Microsoft Azure SQL Server using a connection string, and the two variables (username and password). The application then runs a simple SQL query, searching for a selection within my Accounts Schema in the SQL server wherein the username and password are used as “preparedStatements”, a useful class that can be imported into any Android Studio Project. Note: Username actually refers to Email in the beta format of this application.
 - Note: As of now, the Microsoft Azure Server Free Trial has expired, and thus is no longer running. The code, however, is still in the activity but the code connected to the button has been replaced with a simple check if the text boxes are empty or not. This is so that the user can proceed to the next screen despite not being able to authenticate any longer.
5. Create Account Button
 - Moves user to Create Account Activity
6. Activity Animations
 - Applies to Both Home and Create Account Activities
7. Landscape and Portrait Layouts

Create Account Activity:

10:00

Email

Enter your email

Password

Enter your password **WEAK**

Confirm Password

Confirm your password

Passwords must have:

1. One lowercase letter
2. One uppercase letter
3. One special character
4. One number
5. 16 characters minimum

Create Account

10:00

Email

Enter your email

Password

Enter your password **WEAK**

Confirm Password

Confirm your password

Passwords must:

1. One lowercase letter
2. One uppercase letter
3. One special character
4. One number
5. 16 characters minimum

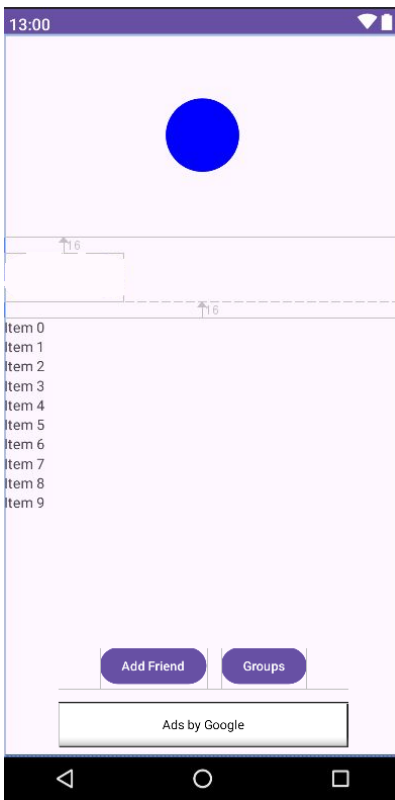
Create Account

Elements of Page:

1. Email text and Textbox
2. Password Text and Textbox
 - Is compared with password requirements to generate a password strength
3. Password Strength Text
 - The text within Password Textbox is compared in real-time against a set of requirements, with specific thresholds being marked as **“Weak”**, **“Medium”**, **“Strong”**, or **“Bulletproof”**

- The text is then changed in real-time to reflect the variable, along with its assigned color
4. Password Strength Color Box
 - Reflects the assigned color of the text
 5. Confirm Password text and Textbox
 - Is compared with Password Textbox for equivalence
 6. Password Requirements List
 - Password Requirements are as follows: One lowercase character, one uppercase character, one special character, one number, and 16 characters at the minimum.
 7. Create Account Button
 - Can only be used if password is **Bulletproof** and will take the user back to login screen if successful and passwords match.

Home Activity (Main Screen):



Elements of Page:

1. Sphere Render
 - An early unsized rendering of the 3D Sphere without shaders. This is a 3D OpenGL object that can be manipulated through touch with a simple motion event.
2. Recent Pings Section
 - Currently unpopulated and located under the sphere, this is an area that would show recent pings from friends, then outgoing recent pings.
3. List of Friends/Groups
 - Also currently unpopulated is Friends list. This would have a setting that allows the user to change what order these would be populated in, along with preferences for whether groups or friends show up first.
4. Add Friend Button
 - Opens up an “Add Friend” Dialog that has a simple text box and send button.
5. Groups Button
 - Would open up a more complex dialog that allows for creating or joining groups
6. Google Admob Banner
 - Admob tied to my personal account. Banner ads only, googled targeted.