

Advanced Calculator And Convertors

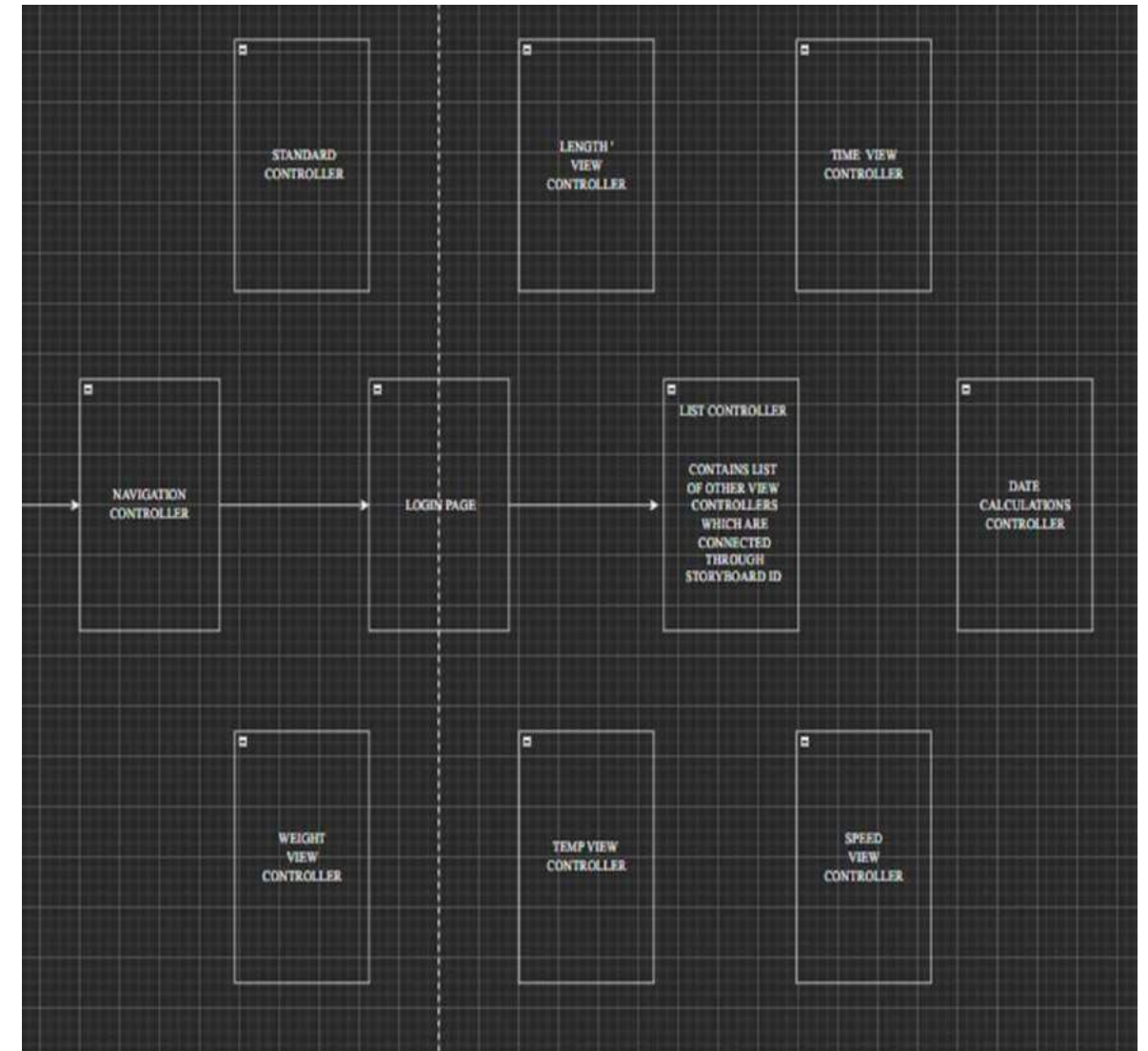
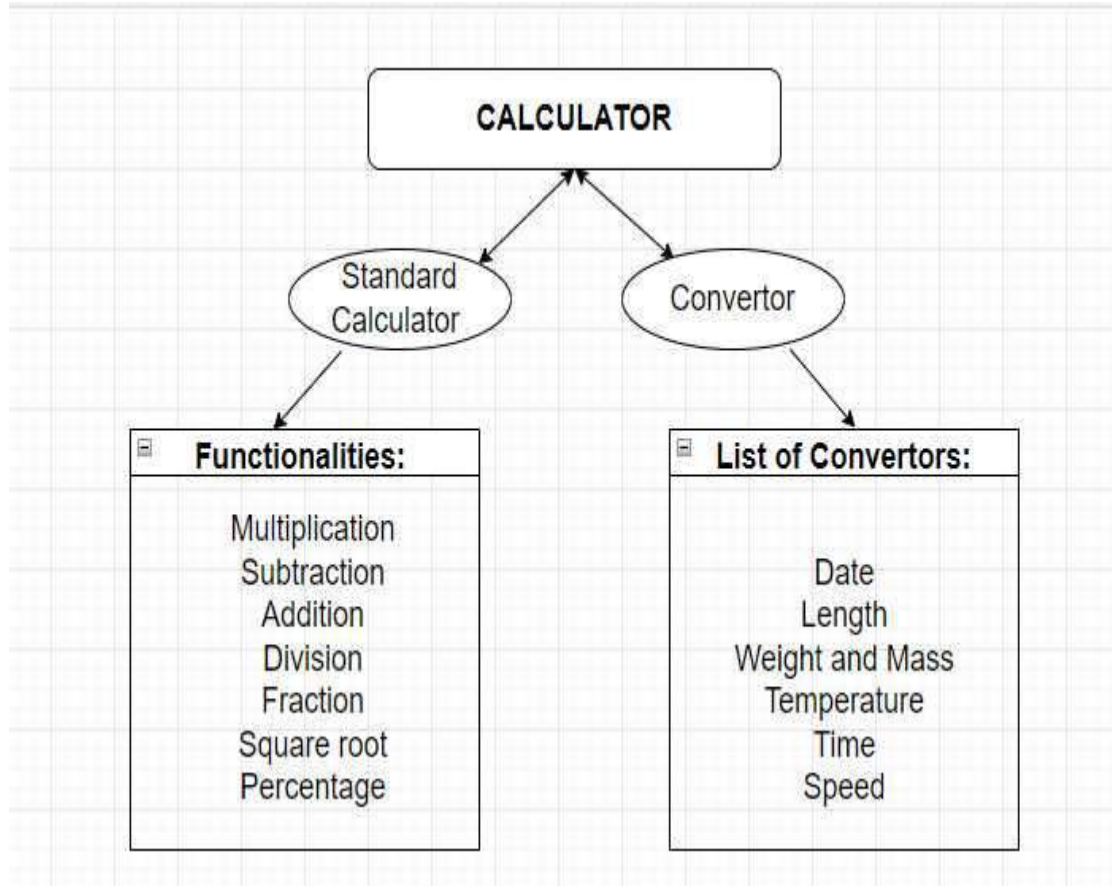
- By Raj Rami, Yakshi Gandhi, Nishtha Patel

Purpose



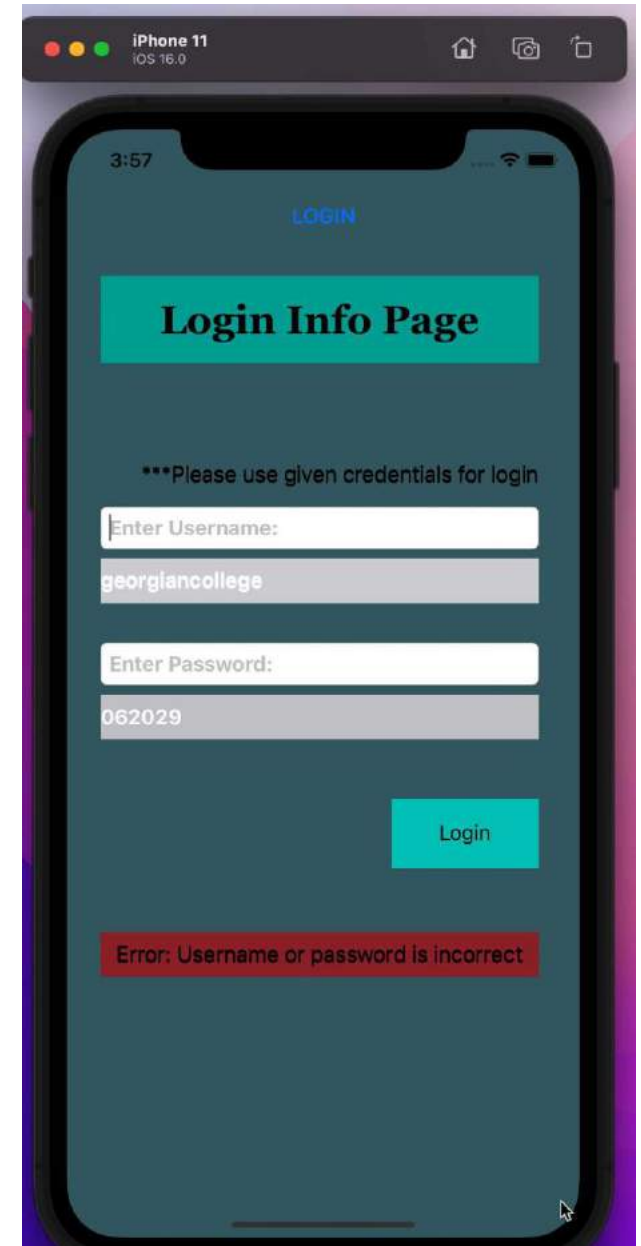
- An advanced calculator using XCode version 13.4.1(13F100), macOS Monterey version 12.5.1 (i7) and Swift 5.0. The application can perform arithmetic operations and provides some functionalities(Convertors) such as getting the difference between dates, converting length in various units, and measuring the weight and mass, temperature, time, and speed.
- We will provide strong validation in each view so there will be no point where our program would break.

System Design



Login and List View Controller

Having different scenarios, each of them has unique functionality. We will create a list view controller where the user can access all these different views to use our application's functionalities and Login Page to enter a username and password and log in with an alert message.



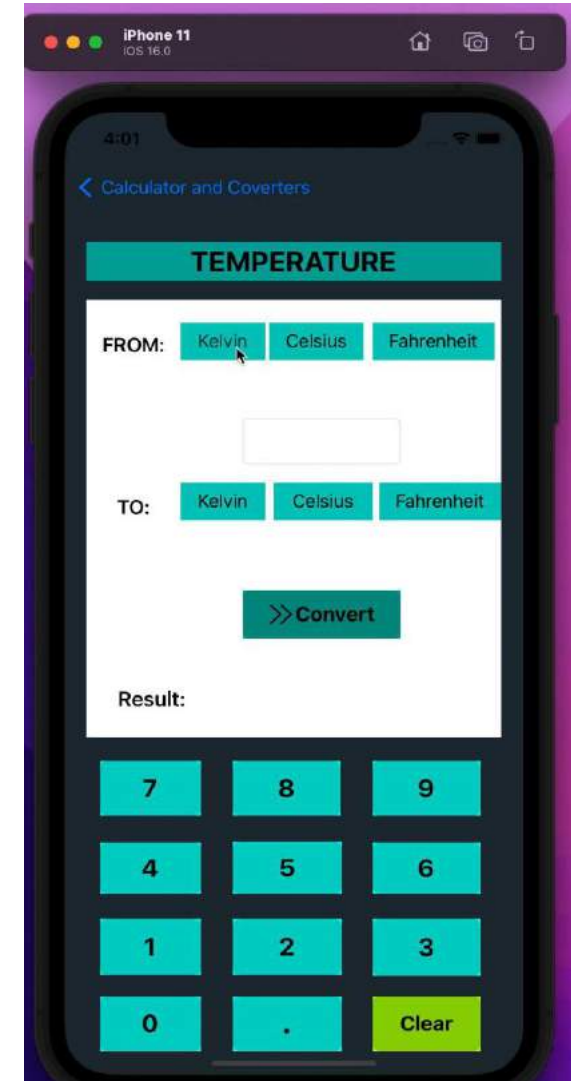


Standard Calculator

- The Standard mode may be used to conduct standard mathematical operations such as addition, subtracting, multiplying, and dividing as well as to discover square roots, compute percentages, work with fractions, and locate other mathematical expressions. Adopting this option will likely make the majority of individuals feel the most at ease.

TEMPERATURE

- The application will also have a method that the user will use to convert temperature into 3 different units (Celsius, Kelvin, Fahrenheit).



TIME CALCULATION



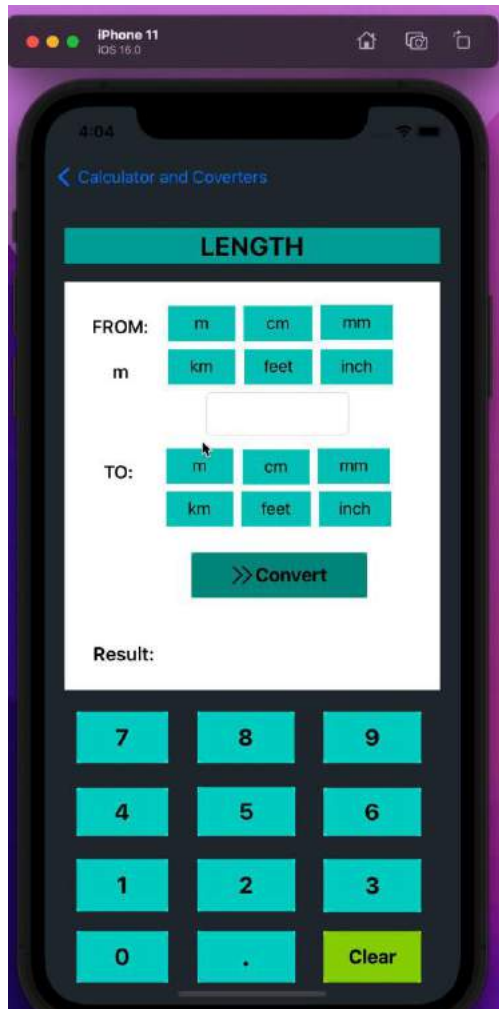
- **Users can be able to convert time into seconds, minutes, or hours.**

SPEED

- By using speed mode the user can measure speed by meters per hour, kilometres per hour, and miles per hour.



LENGTH



- The length converter mode will be useful to convert length into various units such as millimetres, centimetres, meters, feet, inches and kilometres

WEIGHT

- Users can convert weight into the units like carats, milligrams, centigrams, grams, kilograms, ounces and pounds

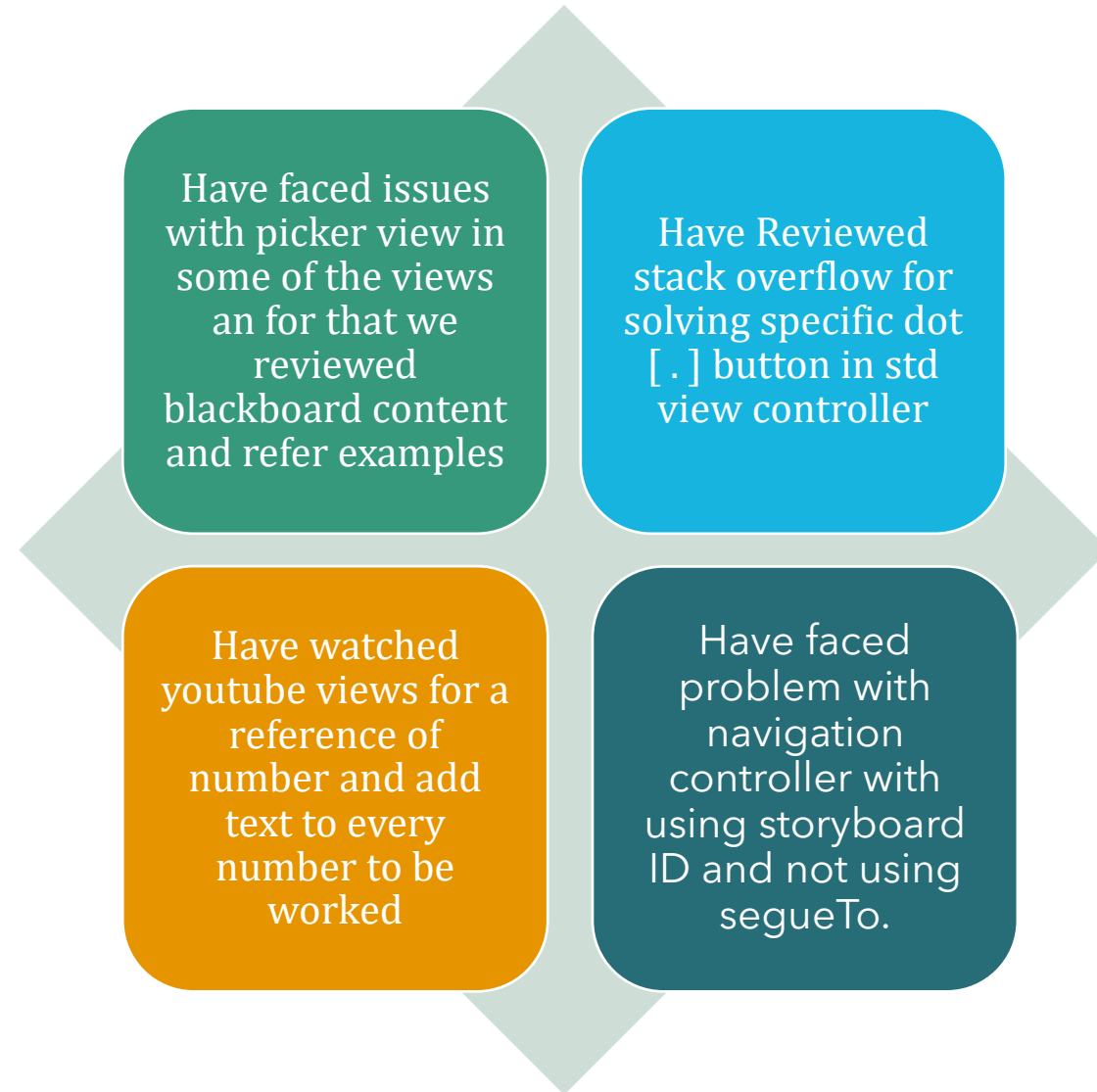


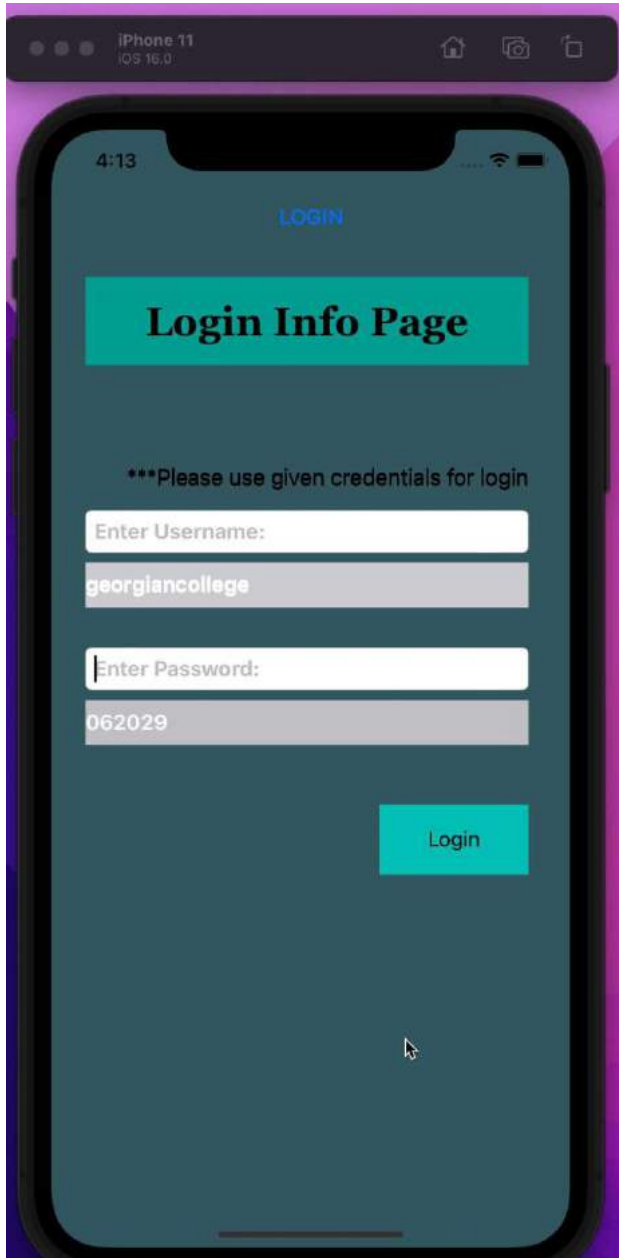
DATE CALCULATIONS



- **The Date Calculation mode is a helpful tool that lets you determine the difference between two certain dates. This is ideal for working out information like your current age or the number of days till your next trip. Simply choose the start and finish dates, and the calculator will work out the months, weeks, and days that will pass between them.**

PROBLEMS





DEMO

Thank you

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