ContentView :

//

// ContentView.swift

// RightTriangleSolver

//

// Created by Ranul Akmeemana on 2023-03-17.

//

**import** SwiftUI

**struct** ContentView: View {

**var** body: **some** View {

NavigationStack {

TabView {

CalculationView()

.tabItem {

VStack {

Image(systemName: "sum")

Text("Calculations")

}

}

HistoryView()

.tabItem {

VStack {

Image(systemName: "list.dash")

Text("History")

}

}

}

}

}

}

**struct** ContentView\_Previews: PreviewProvider {

**static** **var** previews: **some** View {

ContentView()

}

}

Calculation View :

//

// CalculationView.swift

// RightTriangleSolver

//

// Created by Ranul Akmeemana on 2023-03-17.

//

**import** SwiftUI

**struct** CalculationView: View {

@State **private** **var** rightAngleSides: [String] = ["Base", "Attitude", "Hypotenuse" ]

@State **private** **var** selectedUnknownEdge: String = "Base"

@State **private** **var** base : String = ""

@State **private** **var** attitude : String = ""

@State **private** **var** hypotenuse : String = ""

@State **private** **var** hypoVal: String = ""

@State **private** **var** areaVal: String = ""

@State **private** **var** perimeter: String = ""

**var** body: **some** View {

NavigationStack {

ScrollView {

VStack (spacing: 20) {

Image("right\_triangle")

HStack {

Text ("Choose the Unknown length").fontWeight(.bold)

Picker("select", selection: $selectedUnknownEdge) {

ForEach(rightAngleSides, id:\.**self**) { item **in**

Text("\(item)")

}

}

.pickerStyle(.inline)

}

.padding()

VStack(alignment: .leading) {

Text("Enter Known Length Values").fontWeight(.bold)

**if** selectedUnknownEdge != "Base" {

TextField("Base", text: $base)

.textFieldStyle(.roundedBorder)

.keyboardType(.numberPad)

}

**if** selectedUnknownEdge != "Attitude" {

TextField("Attitude", text: $base)

.textFieldStyle(.roundedBorder)

.keyboardType(.numberPad)

}

**if** selectedUnknownEdge != "Hypotenuse" {

TextField("Hypotenuse", text: $base)

.textFieldStyle(.roundedBorder)

.keyboardType(.numberPad)

}

}

.padding()

Button {

} label: {

Text ("Calculate")

}

.buttonStyle(.borderedProminent)

.tint(.green)

VStack {

HStack {

Text("Hypotenuse:")

Spacer()

Text("\(hypoVal)")

}

HStack {

Text("Area:")

Spacer()

Text("\(areaVal)")

}

HStack {

Text("Perimter:")

Spacer()

Text("\(perimeter)")

}

}

Spacer()

}

.padding()

}

.navigationTitle("Triangle Calculator")

.navigationBarTitleDisplayMode(.large)

}

}

**func** calculateUnknownValue() {

**if** selectedUnknownEdge == "Base" {

**let** a = Double(attitude)

**let** c = Double(hypotenuse)

// let formula1 = pow(c, c) - pow(a, a)

} **else** **if** selectedUnknownEdge == "Attitude" {

**let** b = Double(base)

**let** c = Double(hypotenuse)

} **else** {

**let** a = Double(attitude)

**let** b = Double(base)

}

}

**func** calculateUnknown(inputVal1: String, inputVal2: String) {

**let** a = Double(inputVal1)

**let** b = Double(inputVal2)

}

**func** calculateArea(inputVal1: String, inputVal2: String) {

}

**func** calculatePerimeter(inputVal1: String, inputVal2: String) {

}

}

**struct** CalculationView\_Previews: PreviewProvider {

**static** **var** previews: **some** View {

CalculationView()

}

}

History View:

//

// HistoryView.swift

// RightTriangleSolver

//

// Created by Ranul Akmeemana on 2023-03-17.

//

**import** SwiftUI

**struct** HistoryView: View {

**var** body: **some** View {

Text(/\*@START\_MENU\_TOKEN@\*/"Hello, World!"/\*@END\_MENU\_TOKEN@\*/)

}

}

**struct** HistoryView\_Previews: PreviewProvider {

**static** **var** previews: **some** View {

HistoryView()

}

}