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//
//  IntroToParliamentaryProcedure.swift
//  FBLA-QuizME
//
//  Created by Udit Garg on 11/28/18.
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//

import Foundation
import UIKit
import MessageUI

class IntroToParliamentaryProcedure: UIViewController {

    // Set up variables that represent labels and buttons on the storyboard
    @IBOutlet weak var QuestionLabel: UILabel!
    @IBOutlet weak var Answer1: UIButton!
    @IBOutlet weak var Answer2: UIButton!
    @IBOutlet weak var Answer3: UIButton!
    @IBOutlet weak var Answer4: UIButton!
    @IBOutlet weak var NextQuestion: UIButton!
    @IBOutlet weak var ScoreLabel: UILabel!

    // Create an array of integers that represent the number of questions
    var randomQuestionArray:[Int] = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]

    override func viewDidLoad() {
        super.viewDidLoad()

        // Hide Initial Next Question Buttons
        NextQuestion.isHidden = true

        //Format the buttons
        Answer1.layer.borderWidth=1
        Answer1.layer.borderColor=UIColor.darkGray.cgColor
        Answer1.layer.cornerRadius=5
        Answer2.layer.borderWidth=1
        Answer2.layer.borderColor=UIColor.darkGray.cgColor
        Answer2.layer.cornerRadius=5
        Answer3.layer.borderWidth=1
        Answer3.layer.borderColor=UIColor.darkGray.cgColor
        Answer3.layer.cornerRadius=5
        Answer4.layer.borderWidth=1
        Answer4.layer.borderColor=UIColor.darkGray.cgColor
        Answer4.layer.cornerRadius=5

        // Set the answers to be incorrect
        Answer1Correct = false
        Answer2Correct = false
        Answer3Correct = false
        Answer4Correct = false

        // As soon as the view loads start generating the questions
        RandomQuestions()

        ScoreNumber = 0
    }

    override func didReceiveMemoryWarning() {
        super.didReceiveMemoryWarning()
    }

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    // Dispose of any resources that can be recreated.
}

// If the answer is right then the Next Question button is enabled
func rightAnswer() {
    NextQuestion.isHidden = false
    ScoreNumber = Int(ScoreNumber) + 2
    ScoreLabel.text = String(format: "%i", ScoreNumber)
}

// If the answer is wrong then the Next Question button is hidden
func wrongAnswer() {
    ScoreNumber = Int(ScoreNumber) - 1
    ScoreLabel.text = String(format: "%i", ScoreNumber)
}

// This function randomly generates questions without repeat
func RandomQuestions(){

    Answer1.isEnabled = true
    Answer2.isEnabled = true
    Answer3.isEnabled = true
    Answer4.isEnabled = true

    // This makes randomIndex represent the number of questions available for this
question
    let randomIndex = Int(arc4random_uniform(UInt32(randomQuestionArray.count)))

    // Generates questions until all of the questions for this topic have been
answered
    if randomQuestionArray.count > -1 {

        switch (randomQuestionArray[randomIndex]) {
        case 0:
            QuestionLabel.text = "Which article in the FBLA bylaws describes the
information about FBLA dues?"
            Answer1.setTitle("Article III", for: .normal)
            Answer2.setTitle("Article IV", for: .normal)
            Answer3.setTitle("Article VI", for: .normal)
            Answer4.setTitle("Article V", for: .normal)
            Answer2Correct = true
        case 1:
            QuestionLabel.text = "To appeal is:"
            Answer1.setTitle("close the meeting", for: .normal)
            Answer2.setTitle("question chair's ruling", for: .normal)
            Answer3.setTitle("agree", for: .normal)
            Answer4.setTitle("modify meaning", for: .normal)
            Answer2Correct = true
        case 2:
            QuestionLabel.text = "Viva voce means:"
            Answer1.setTitle("voice vote", for: .normal)
            Answer2.setTitle("always for the motion", for: .normal)
            Answer3.setTitle("no objection", for: .normal)
            Answer4.setTitle("objection", for: .normal)
            Answer1Correct = true
        case 3:
            QuestionLabel.text = "To delay consideration of the main motion until
the next regular meeting:"
            Answer1.setTitle("lay on the table", for: .normal)
            Answer2.setTitle("limit debate", for: .normal)

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        Answer3.setTitle("postpone indefinitely", for: .normal)
        Answer4.setTitle("postpone definitely", for: .normal)
        Answer4Correct = true
    case 4:
        QuestionLabel.text = "The lack of a second has become immaterial"
        Answer1.setTitle("after the chair has stated the question", for:
.normal)

        Answer2.setTitle("when the vote is taken", for: .normal)
        Answer3.setTitle("after debate has begun", for: .normal)
        Answer4.setTitle("all of the above", for: .normal)
        Answer2Correct = true
    case 5:
        QuestionLabel.text = "A committee composed of national officers and
board members that carefully considers applicants for officers of FBLA is appointed by
the:"

        Answer1.setTitle("CEO", for: .normal)
        Answer2.setTitle("FBLA President", for: .normal)
        Answer3.setTitle("Board of Directors", for: .normal)
        Answer4.setTitle("National Executive Council", for: .normal)
        Answer2Correct = true
    case 6:
        QuestionLabel.text = "If the office of FBLA president becomes vacant,
the _____ shall automatically become president. "
        Answer1.setTitle("vice president", for: .normal)
        Answer2.setTitle("secretary", for: .normal)
        Answer3.setTitle("other candidate with the next most votes", for:
.normal)

        Answer4.setTitle("vice president from the president's region", for:
.normal)

        Answer4Correct = true
    case 7:
        QuestionLabel.text = "Rescind means:"
        Answer1.setTitle("cancel", for: .normal)
        Answer2.setTitle("agreement that motion be considered", for: .normal)
        Answer3.setTitle("give way to", for: .normal)
        Answer4.setTitle("no objection", for: .normal)
        Answer1Correct = true
    case 8:
        QuestionLabel.text = "The quorum of an assembly"
        Answer1.setTitle("is the largest dependent voting board", for:
.normal)

        Answer2.setTitle("always a majority of the members", for: .normal)
        Answer3.setTitle("is the members needed for business to occur
legally", for: .normal)
        Answer4.setTitle("is two-thirds of the members present at the
meeting", for: .normal)
        Answer3Correct = true
    case 9:
        QuestionLabel.text = "Corrections to the minutes"
        Answer1.setTitle("should only be made on the minutes being corrected",
for: .normal)

        Answer2.setTitle("may be made only after they are read to the
assembly", for: .normal)
        Answer3.setTitle("cannot be made after being accepted by the
assembly", for: .normal)
        Answer4.setTitle("none of the above", for: .normal)
        Answer1Correct = true
    case 10:
        QuestionLabel.text = "Proposed amendments to the bylaws must be
submitted in writing to the"
        Answer1.setTitle("Association President.", for: .normal)

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        Answer2.setTitle("National Executive Council.", for: .normal)
        Answer3.setTitle("FBLA president.", for: .normal)
        Answer4.setTitle("Board of directors.", for: .normal)
        Answer1Correct = true
    case 11:
        QuestionLabel.text = "The secretary must supply at least ____ copies
of the minutes to the necessary authorities."
        Answer1.setTitle("four", for: .normal)
        Answer2.setTitle("two", for: .normal)
        Answer3.setTitle("three", for: .normal)
        Answer4.setTitle("one", for: .normal)
        Answer2Correct = true
    case 12:
        QuestionLabel.text = "Action of the National Executive Council must be
included in the minutes of the"
        Answer1.setTitle("adjourned meeting.", for: .normal)
        Answer2.setTitle("special meeting.", for: .normal)
        Answer3.setTitle("regular meeting.", for: .normal)
        Answer4.setTitle("next regular meeting.", for: .normal)
        Answer4Correct = true
    default:
        break
    }
    // Removes the possibility of the question that was just shown to be shown
again
    randomQuestionArray.remove(at: randomIndex)
}

// If the user is on the last question then show them that they have reached
the last question
if (randomQuestionArray.count < 1) {
    let alert = UIAlertController(title: "Wow!", message: "You have reached
the last question for Introduction to Parliamentary Procedure! Nice Job! Complete this
question and then click on 'Your Score' for a rating!", preferredStyle: .alert)
    alert.addAction(UIAlertAction(title: "Continue", style: .default, handler:
{ action in
        switch action.style{
        case .default:
            print("default")
        case .cancel:
            print("cancel")
        case .destructive:
            print("destructive")
        })
        self.present(alert, animated: true, completion: nil)
        NextQuestion.isEnabled = false
    })
}

if (randomQuestionArray.count == 0) {
    let alert = UIAlertController(title: "Wow!", message: "You got
\\(ScoreNumber) out of 13 questions correct nice job! To see a detailed breakdown of
your score, click-Your Score-next to your score number.", preferredStyle: .alert)
    alert.addAction(UIAlertAction(title: "Continue", style: .default, handler:
{ action in
        switch action.style{
        case .default:
            print("default")
        case .cancel:
            print("cancel")
        case .destructive:
            print("destructive")
        })
    })
}

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        })))
        self.present(alert, animated: true, completion: nil)
    }
}

// These 4 functions tell the user if they got the correct answer or if they got
the incorrect answer
@IBAction func Answer1(_ sender: Any) {
    if Bool(Answer1Correct) == true {
        rightAnswer()
        Answer1.layer.backgroundColor = UIColor.green.cgColor
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer3.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer1.layer.backgroundColor = UIColor.red.cgColor
        Answer1.isEnabled = false
    }
}

@IBAction func Answer2(_ sender: Any) {
    if Bool(Answer2Correct) == true {
        rightAnswer()
        Answer2.layer.backgroundColor = UIColor.green.cgColor
        Answer2.isEnabled = false
        Answer1.isEnabled = false
        Answer3.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer2.layer.backgroundColor = UIColor.red.cgColor
        Answer2.isEnabled = false
    }
}

@IBAction func Answer3(_ sender: Any) {
    if Bool(Answer3Correct) == true {
        rightAnswer()
        Answer3.layer.backgroundColor = UIColor.green.cgColor
        Answer3.isEnabled = false
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer4.isEnabled = false
    } else {
        wrongAnswer()
        Answer3.layer.backgroundColor = UIColor.red.cgColor
        Answer3.isEnabled = false
    }
}

@IBAction func Answer4(_ sender: Any) {
    if Bool(Answer4Correct) == true {
        rightAnswer()
        Answer4.layer.backgroundColor = UIColor.green.cgColor
        Answer4.isEnabled = false
        Answer1.isEnabled = false
        Answer2.isEnabled = false
        Answer3.isEnabled = false
    } else {

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        wrongAnswer()
        Answer4.layer.backgroundColor = UIColor.red.cgColor
        Answer4.isEnabled = false
    }

    // Resets the colors and answers and generates another question
    @IBAction func NextQuestion(_ sender: Any) {
        Answer1.layer.backgroundColor = UIColor.white.cgColor
        Answer2.layer.backgroundColor = UIColor.white.cgColor
        Answer3.layer.backgroundColor = UIColor.white.cgColor
        Answer4.layer.backgroundColor = UIColor.white.cgColor
        NextQuestion.isHidden = true
        Answer1Correct = false
        Answer2Correct = false
        Answer3Correct = false
        Answer4Correct = false
        RandomQuestions()
    }
}
```