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

import Foundation
import UIKit
import MessageUI

class Journalism: 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 = "From a business perspective, all of the
following are disadvantages of TV broadcasting EXCEPT"
                Answer1.setTitle("Increased use of DVRs", for: .normal)
                Answer2.setTitle("Success to promote mass consumer products", for:
.normal)
                Answer3.setTitle("Audience share is declining due to add
fragmentation", for: .normal)
                Answer4.setTitle("TV shows skew older and lower income", for:
.normal)
                Answer2Correct = true
            case 1:
                QuestionLabel.text = "Social media is allowing users to
participate in generating news like never before. Pew Research found all of the
following to be true EXCEPT"
                Answer1.setTitle("50% shared or reposted news stories, videos, or
images", for: .normal)
                Answer2.setTitle("Less than 10% of online users commented about
the news", for: .normal)
                Answer3.setTitle("14% posted pictures of news", for: .normal)
                Answer4.setTitle("12% posted videos of news", for: .normal)
                Answer2Correct = true
            case 2:
                QuestionLabel.text = "A short audio or video segment produced to
advertise an upcoming news bulletin or news items is called a(n)"
                Answer1.setTitle("teaser", for: .normal)
                Answer2.setTitle("PR", for: .normal)

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        Answer3.setTitle("promo", for: .normal)
        Answer4.setTitle("commercial", for: .normal)
        Answer1Correct = true
    case 3:
        QuestionLabel.text = "News as a product has two important economic
features. One feature is that it is \"non-excludable\" meaning"
        Answer1.setTitle("Once the news is reported, it is copyrighted",
for: .normal)
        Answer2.setTitle("Successful news reporting is dependent on
interviews ", for: .normal)
        Answer3.setTitle("No one can be excluded from the news", for:
.normal)
        Answer4.setTitle("Anyone else can use reported news", for:
.normal)
        Answer4Correct = true
    case 4:
        QuestionLabel.text = "A \"hard news\" story does what?"
        Answer1.setTitle("Lists the bones of the story", for: .normal)
        Answer2.setTitle("Has Interviews of everyone involved", for:
.normal)
        Answer3.setTitle("Is written from research", for: .normal)
        Answer4.setTitle("Makes conclusions", for: .normal)
        Answer1Correct = true
    case 5:
        QuestionLabel.text = "Which street name should NOT be abbreviated
according to AP Style?"
        Answer1.setTitle("35 Cherry St.", for: .normal)
        Answer2.setTitle("26 Rose Ave.", for: .normal)
        Answer3.setTitle("90 Holmes Blvd.", for: .normal)
        Answer4.setTitle("59 Vine Dr.", for: .normal)
        Answer4Correct = true
    case 6:
        QuestionLabel.text = "Which headline is most consistent with AP
style in voice, structure, and format? "
        Answer1.setTitle("Budget announced by President. Congress to
discuss it", for: .normal)
        Answer2.setTitle("President announces budget; Congress to discuss
it", for: .normal)
        Answer3.setTitle("President announces budget: Congress shall
discuss it", for: .normal)
        Answer4.setTitle("Budget announced by President; Congress will
discuss it", for: .normal)
        Answer2Correct = true
    case 7:
        QuestionLabel.text = " When someone does NOT give credit for words
and ideas that is called what?"
        Answer1.setTitle("Stealing", for: .normal)
        Answer2.setTitle("Attribution", for: .normal)
        Answer3.setTitle("Plagiarism", for: .normal)
        Answer4.setTitle("The internet", for: .normal)
        Answer3Correct = true
    case 8:
        QuestionLabel.text = "Which government agency requires
pharmaceutical ads contain disclosures when broadcast on TV"
        Answer1.setTitle("FDA", for: .normal)
        Answer2.setTitle("FCC", for: .normal)
        Answer3.setTitle("FBI", for: .normal)
        Answer4.setTitle("FTC", for: .normal)
        Answer1Correct = true
    case 9:

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        QuestionLabel.text = "What event coincided with a huge loss of
trust in mass media?"
        Answer1.setTitle("The terrorist attacks on Sept. 11, 2001.", for:
.normal)
        Answer2.setTitle("The 24-hour news cycle.", for: .normal)
        Answer3.setTitle("The false information printed by Stephen
Glass.", for: .normal)
        Answer4.setTitle("The closing of the Rocky Mountain News.", for:
.normal)
        Answer1Correct = true
    case 10:
        QuestionLabel.text = "Congratulations on becoming the movie
reviewer! To prepare for your first review, you should:"
        Answer1.setTitle("ask to speak with someone for quotes after the
watching it", for: .normal)
        Answer2.setTitle("Record clips of the movie to ensure accuracy",
for: .normal)
        Answer3.setTitle("Call the movie theater and tell them that you
are coming", for: .normal)
        Answer4.setTitle("Make sure you have enough materials to take good
notes", for: .normal)
        Answer4Correct = true
    case 11:
        QuestionLabel.text = "An editorial board is defined as"
        Answer1.setTitle("A bulletin board of story ideas for editors to
consider", for: .normal)
        Answer2.setTitle("A group of people who vote on what people cover
what", for: .normal)
        Answer3.setTitle("Group of people who determine style in a paper",
for: .normal)
        Answer4.setTitle("It was a physical board, but is now a digital
place for editing", for: .normal)
        Answer3Correct = true
    case 12:
        QuestionLabel.text = "Who is NOT a historical figure of
journalism?"
        Answer1.setTitle("Joseph Pulitzer", for: .normal)
        Answer2.setTitle("Frederick Douglass", for: .normal)
        Answer3.setTitle("Andrew Mulligan", for: .normal)
        Answer4.setTitle("William Randolph Hearst", for: .normal)
        Answer3Correct = 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 Journalism! 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:

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        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")
            })))
        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()

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        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 {
        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()
}
}

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