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HealthCareAdministration.swift
    FBLA-QuizME
import Foundation
import UIKit
import MessageUI
class HealthCareAdministration: UIViewController {
   @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!
   var randomQuestionArray:[Int] = [0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12]
    override func viewDidLoad() {
        super.viewDidLoad()
        NextQuestion.isHidden = true
        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
        Answer1Correct = false
        Answer2Correct = false
        Answer3Correct = false
        Answer4Correct = false
        RandomQuestions()
        ScoreNumber = 0
    }
    override func didReceiveMemoryWarning() {
       super.didReceiveMemoryWarning()
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}
     func rightAnswer() {
          NextQuestion.isHidden = false
          ScoreNumber = Int(ScoreNumber) + 2
          ScoreLabel.text = String(format: "%i", ScoreNumber)
     }
     func wrongAnswer() {
          ScoreNumber = Int(ScoreNumber) - 1
          ScoreLabel.text = String(format: "%i", ScoreNumber)
     // This function randomly generates questions without repeat
     func RandomOuestions(){
          Answer1.isEnabled = true
          Answer2.isEnabled = true
          Answer3.isEnabled = true
          Answer4.isEnabled = true
          // This makes randomIndex represent the number of questions available for this
          let randomIndex = Int(arc4random uniform(UInt32(randomQuestionArray.count)))
answered
          if randomQuestionArray.count > -1 {
               switch (randomQuestionArray[randomIndex]) {
               case 0:
                    QuestionLabel.text = "Which one of the following represents a behavior
that is intended to protect oneself from a perceived threat?"

Answer1.setTitle("defensive", for: .normal)

Answer2.setTitle("offensive", for: .normal)

Answer3.setTitle("ethnic", for: .normal)

Answer4.setTitle("anxiety", for: .normal)
                    Answer1Correct = true
               case 1:
                    QuestionLabel.text = "Confidentiality is a major concern when"
Answer1.setTitle("faxing documents to a patient", for: .normal)
Answer2.setTitle("e-mailing documents to a patient", for: .normal)
                    Answer3.setTitle("leaving a message on a patient's answering machine",
for: .normal)
                    Answer4.setTitle("talking to other patients about the patient in
cocern", for: .normal)
                    Answer3Correct = true
               case 2:
                    QuestionLabel.text = "A bruise also is known as a/an"
                    Answer1.setTitle("cardio version", for: .normal)
                    Answer2.setTitle("contusion", for: .normal)
Answer3.setTitle("occlusion", for: .normal)
Answer4.setTitle("cauterization", for: .normal)
                    Answer2Correct = true
               case 3:
                    QuestionLabel.text = "Which definition best describes a thoracotomy?"
                    Answer1.setTitle("incision through the chest wall", for: .normal)
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Answer2.setTitle("pertaining to the location of the thorus", for:
.normal)
                  Answer3.setTitle("delineation of deep structures behind the chest
wall", for: .normal)
                  Answer4.setTitle("examination of the chest wall", for: .normal)
                  Answer1Correct = true
              case 4:
                  QuestionLabel.text = "Patient education is critical to prevent the
onset of a repeat of illness. What is essential to assess before beginning patient
education?"
                  Answer1.setTitle("time available for teaching", for: .normal)
                  Answer2.setTitle("caregiver's expectations", for: .normal)
                  Answer3.setTitle("readiness to learn", for: .normal)
                  Answer4.setTitle("ability to integrate medication with new
strategies", for: .normal)
                  Answer3Correct = true
              case 5:
                  QuestionLabel.text = "The Centers for Disease Control and Prevention
is the principal agency concerned with the health and safety of people throughout the"
                  Answer1.setTitle("world", for: .normal)
Answer2.setTitle("United States", for: .normal)
                  Answer3.setTitle("Southwest region", for: .normal)
                  Answer4.setTitle("Northwest region", for: .normal)
                  Answer1Correct = true
              case 6:
                  QuestionLabel.text = "What is the name of a service that may by
employed by a medical practice to prepare and send all monthly statements and to place
                  Answer1.setTitle("billing service", for: .normal)
                  Answer2.setTitle("collection agency", for: .normal)
Answer3.setTitle("service agency", for: .normal)
Answer4.setTitle("clearinghouse", for: .normal)
                  Answer4Correct = true
              case 7:
                  QuestionLabel.text = "The government requires businesses to report
incomes on a regular basis. What is the required form to be sued in this reporting
process?"
                  Answer1.setTitle("wage and tax statement form", for: .normal)
Answer2.setTitle("wage and taxable account form", for: .normal)
Answer3.setTitle("employee withholding form", for: .normal)
                  Answer4.setTitle("employer quarterly tax reporting form", for:
.normal)
                  Answer2Correct = true
              case 8:
                  QuestionLabel.text = "Which one of the following statements regarding
interviewing a patient is correct?
                  Answer1.setTitle("Make sure the patient's information is correct",
for: .normal)
                  Answer2.setTitle("Let the patient know there is limited time for
interviewing", for: .normal)
                  Answer3.setTitle("Interrupt the patient so you have the right
information.", for: .normal)
                  Answer4.setTitle("Ask yes/no questions to be sure information is
correct.", for: .normal)
                  Answer1Correct = true
              case 9:
                  QuestionLabel.text = "Moving your fingers across the screen, instead
of using a mouse is known as which one of the following technologies?"
                  Answer1.setTitle("sensitive screen", for: .normal)
Answer2.setTitle("flash screen", for: .normal)
Answer3.setTitle("mobile screen", for: .normal)
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Answer4.setTitle("touch screen", for: .normal)
                 Answer4Correct = true
            case 10:
                 QuestionLabel.text = "What did the National Labor Relations Act do?"
                 Answer1.setTitle("Allowed health care providers to use bargaining
units", for: .normal)
                 Answer2.setTitle("Established minimum wage, ages, and overtime pay for
workers", for: .normal)
                 Answer3.setTitle("Established pay equality between males and females",
for: .normal)
                 Answer4.setTitle("Established guidelines for workplace safety", for:
.normal)
                 Answer1Correct = true
            case 11:
                 QuestionLabel.text = "What did the Equal Pay Act do?"
                 Answer1.setTitle("Allowed health care providers to use bargaining
units", for: .normal)
                 Answer2.setTitle("Established minimum wage, ages, and overtime pay for
workers", for: .normal)
                 Answer3.setTitle("Established pay equality between males and females",
for: .normal)
                 Answer4.setTitle("Established guidelines for workplace safety", for:
.normal)
                 Answer3Correct = true
            case 12:
                 OuestionLabel.text = "What did the Fair Labor Standards Act of 1938
                 Answer1.setTitle("Allowed health care providers to use bargaining
units", for: .normal)
                 Answer2.setTitle("Established minimum wage, ages, and overtime pay for
workers", for: .normal)
                 Answer3.setTitle("Established pay equality between males and females",
for: .normal)
                 Answer4.setTitle("Established guidelines for workplace safety", for:
.normal)
                 Answer2Correct = true
            default:
                 break
            randomQuestionArray.remove(at: randomIndex)
        }
        if (randomQuestionArray.count < 1) {</pre>
let alert = UIAlertController(title: "Wow!", message: "You have reached
the last question for Health Care Administration! 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)
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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)
        }
    }
   @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
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} 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
    }
}
@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()
```