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FBLA-QuizME
    Created by Udit Garg on 11/25/18.
import Foundation
import UIKit
import MessageUI
class CyberSecurity: 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 = "This is a class of programs that searches your
hard drive and floppy disks for any known or potential viruses."

Answer1.setTitle("intrusion detection", for: .normal)

Answer2.setTitle("security identifier", for: .normal)

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

Answer4.setTitle("Antivirus Software", for: .normal)
                       Answer4Correct = true
                 case 1:
QuestionLabel.text = "What is the term for an attempt to determine the valid e-mail addresses associated with an e-mail server so that they can be added to a
spam database?"
                       Answer1.setTitle("X-mail harvest", for: .normal)
                      Answer2.setTitle("Directory harvest attack", for: .normal)
Answer3.setTitle("Spambot attack", for: .normal)
Answer4.setTitle("Email validator", for: .normal)
                       Answer2Correct = true
                 case 2:
                       QuestionLabel.text = "What protocol ensures privacy between
communicating applications and their users on the Internet?"
                      Answer1.setTitle("F-Secure", for: .normal)
Answer2.setTitle("Privacy Control Protocol", for: .normal)
Answer3.setTitle("Secure Shell Authentication", for: .normal)
Answer4.setTitle("Transport Layer Security", for: .normal)
                       Answer4Correct = true
                 case 3:
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QuestionLabel.text = "What governs the type of traffic that is and is
                  Answer1.setTitle("rule base", for: .normal)
                 Answer2.setTitle("gateway", for: .normal)
                  Answer3.setTitle("access control list", for: .normal)
                  Answer4.setTitle("partition", for: .normal)
                  Answer1Correct = true
                  QuestionLabel.text = "What protocol ensures privacy between
communicating applications and their users on the Internet?'
                  Answer1.setTitle("F-Secure", for: .normal)
                  Answer2.setTitle("Privacy Control Protocol", for: .normal)
                  Answer3.setTitle("Secure Shell Authentication", for: .normal)
                  Answer4.setTitle("Transport Layer Security", for: .normal)
                  Answer4Correct = true
             case 5:
                  QuestionLabel.text = "Microsoft's Passport is an example of this
technology, which allows users to register their personal information once to access
multiple applications."
                  Answer1.setTitle("Microsoft Point-to-Point Encryption.", for: .normal)
                  Answer2.setTitle("Single Signon.", for: .normal)
Answer3.setTitle("Relative Identifier.", for: .normal)
                  Answer4.setTitle("Biometric Verification", for: .normal)
                  Answer2Correct = true
             case 6:
                  QuestionLabel.text = "Your friend sends you a website link requesting
you to update your address information. What will you do?"
                  Answer1.setTitle("Click on the link and update the information.", for:
.normal)
                  Answer2.setTitle("Make your decision based on the privacy policy",
for: .normal)
                  Answer3.setTitle("Update and forward the link to all your friends.",
for: .normal)
                  Answer4.setTitle("Report your friends email address as spam.", for:
.normal)
                  Answer2Correct = true
             case 7:
                  QuestionLabel.text = "What is SSL used for?"
                  Answer1.setTitle("Encrypt data as it travels over a network", for:
.normal)
                  Answer2.setTitle("Encrypt passwords for storage in a database", for:
.normal)
                  Answer3.setTitle("Encrypt files located on a Web server", for:
.normal)
                  Answer4.setTitle("Encrypt digital certificates", for: .normal)
                  Answer1Correct = true
             case 8:
                  QuestionLabel.text = "On average, how long does it take for an
unprotected networked computer to be compromised once it is connected to the
internet?"
                 Answer1.setTitle("1 Week", for: .normal)
Answer2.setTitle("20 minutes", for: .normal)
Answer3.setTitle("10 hours", for: .normal)
Answer4.setTitle("7 Days", for: .normal)
                  Answer1Correct = true
             case 9:
                  QuestionLabel.text = "This is a document that states in writing how a
company plans to protect the company's physical and IT assets."
                 Answer1.setTitle("Data Encryption Standard", for: .normal)
Answer2.setTitle("Security policy", for: .normal)
Answer3.setTitle("Public key certificate", for: .normal)
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Answer4.setTitle("Access control list", for: .normal)
                 Answer2Correct = true
             case 10:
                 QuestionLabel.text = "This is a program in which malicious or harmful
code is contained inside apparentlyharmless programming or data."
                 Answer1.setTitle("War dialer", for: .normal)
Answer2.setTitle("Spam trap", for: .normal)
                 Answer3.setTitle("Trojan horse", for: .normal)
Answer4.setTitle("Email", for: .normal)
                 Answer3Correct = true
             case 11:
                 QuestionLabel.text = "Which of the following is the most important to
install and keep up to date on your personal computer?"
                 Answer1.setTitle("Anti-virus and anti-spyware software", for: .normal)
                 Answer2.setTitle("Anti-spam software", for: .normal)
                 Answer3.setTitle("A Firewall", for: .normal)
                 Answer4.setTitle("All of the above", for: .normal)
                 Answer4Correct = true
             case 12:
                 QuestionLabel.text = "What percentage of people have reported that
                 Answer1.setTitle("5%", for: .normal)
Answer2.setTitle("10%", for: .normal)
Answer3.setTitle("15%", for: .normal)
Answer4.setTitle("20%", for: .normal)
                 Answer1Correct = true
             default:
                 break
             randomQuestionArray.remove(at: randomIndex)
        if (randomQuestionArray.count < 1) {</pre>
{ 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{
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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
    } else {
        wrongAnswer()
        Answer3.layer.backgroundColor = UIColor.red.cgColor
        Answer3.isEnabled = false
    }
@IBAction func Answer4(_ sender: Any) {
    if Bool(Answer4Correct) == true {
        rightAnswer()
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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()
```