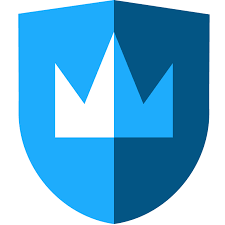
**MYRIAD QUEST APP**

**OCTOBER 26 2018**

**// AppDelegate.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/17/18.

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//

import UIKit

@UIApplicationMain

class AppDelegate: UIResponder, UIApplicationDelegate {

var window: UIWindow?

func application(\_ application: UIApplication, didFinishLaunchingWithOptions launchOptions: [UIApplicationLaunchOptionsKey: Any]?) -> Bool {

// Override point for customization after application launch.

//matching the color for the navigation bar

UINavigationBar.appearance().barTintColor = UIColor(red: 0/255.0, green: 159/255.0, blue: 255/255.0, alpha: 1.0)

UINavigationBar.appearance().tintColor = UIColor.white

UINavigationBar.appearance().titleTextAttributes = [NSAttributedStringKey.foregroundColor : UIColor.white]

return true

}

func applicationWillResignActive(\_ application: UIApplication) {

// Sent when the application is about to move from active to inactive state. This can occur for certain types of temporary interruptions (such as an incoming phone call or SMS message) or when the user quits the application and it begins the transition to the background state.

// Use this method to pause ongoing tasks, disable timers, and invalidate graphics rendering callbacks. Games should use this method to pause the game.

}

func applicationDidEnterBackground(\_ application: UIApplication) {

// Use this method to release shared resources, save user data, invalidate timers, and store enough application state information to restore your application to its current state in case it is terminated later.

// If your application supports background execution, this method is called instead of applicationWillTerminate: when the user quits.

}

func applicationWillEnterForeground(\_ application: UIApplication) {

// Called as part of the transition from the background to the active state; here you can undo many of the changes made on entering the background.

}

func applicationDidBecomeActive(\_ application: UIApplication) {

// Restart any tasks that were paused (or not yet started) while the application was inactive. If the application was previously in the background, optionally refresh the user interface.

}

func applicationWillTerminate(\_ application: UIApplication) {

// Called when the application is about to terminate. Save data if appropriate. See also applicationDidEnterBackground:.

}

}

//

**// KingdomEV.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/20/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import Foundation

import EVReflection

class KingdomEV: EVObject {

//Kingdom Data

var id: String?

var name: String?

var image: String?

//Kingdom Details

var climate: String?

var population: String?

var quests: [QuestEV]?

}

//  
**// ProfileEV.swift**  
// Maddie Dev Challenge  
//  
// Created by Madelyn Stephenson on 9/27/18.  
// Copyright © 2018 Madelyn Stephenson. All rights reserved.  
//  
  
import Foundation  
import EVReflection  
  
class QuestEV : EVObject {  
  
 var id: String?  
 var name: String?  
 var image: String?  
 var desc: String?  
 var giver: GiverEV?  
   
//MARK: propertyMapping  
 override public func propertyMapping() -> [(keyInObject: String?, keyInResource: String?)] {  
 return [(keyInObject: "desc",keyInResource: "description")]  
 }  
}

//

**// QuestEV.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/27/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

////https://challenge2015.myriadapps.com/api/v1/characters/

import Foundation

import EVReflection

//GetGiverDetails

class GiverEV: EVObject {

var id: String?

var name: String?

var image: String?

var profession: String?

var bio: String?

}

//

**// LoadingView.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/21/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

extension UITableViewController {

class func displaySpinner(onView : UIView) -> UIView {

let spinnerView = UIView.init(frame: onView.bounds)

spinnerView.backgroundColor = UIColor.init(red: 0.5, green: 0.5, blue: 0.5, alpha: 0.5)

let ai = UIActivityIndicatorView.init(activityIndicatorStyle: .whiteLarge)

ai.startAnimating()

ai.center = spinnerView.center

DispatchQueue.main.async {

spinnerView.addSubview(ai)

onView.addSubview(spinnerView)

}

return spinnerView

}

class func removeSpinner(spinner :UIView) {

DispatchQueue.main.async {

spinner.removeFromSuperview()

}

}

}

//

// **SignUpViewController.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/17/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

import Alamofire

class SignUpViewController: UIViewController {

@IBOutlet weak var userName: UITextField!

@IBOutlet weak var Email: UITextField!

@IBAction func Submit(\_ sender: Any) {

if (self.Email.text ?? "").count == 0 || (self.userName.text ?? "").count == 0 {

let alert = UIAlertController(title: "Name and Email is Required", message: "", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "OK", style: .cancel, handler: nil))

self.present(alert, animated: true)

} else if !isValidEmail(Email: self.Email.text) {

let alert = UIAlertController(title: "Please Use a Vaild Email Address", message: "", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: nil))

self.present(alert, animated: true)

} else {

alamofireRequest()

}

}

func isValidEmail(Email:String?) -> Bool {

if Email == nil { return false }

let emailRegEx = "[A-Z0-9a-z.\_%+-]+@[A-Za-z0-9.-]+\\.[A-Za-z]{2,64}"

let emailTest = NSPredicate(format:"SELF MATCHES %@", emailRegEx)

return emailTest.evaluate(with: Email)

}

override func viewDidLoad() {

super.viewDidLoad()

assignbackground()

let cachedEmail = UserDefaults.standard.string(forKey: "email")

if cachedEmail != nil {

let vc = TableViewController.create()

self.navigationController?.pushViewController(vc, animated: true)

vc.title = cachedEmail

}

}

func alamofireRequest() {

let parameters : Parameters = ["email" : Email.text]

Alamofire.request("https://challenge2015.myriadapps.com/api/v1/subscribe", method: .post, parameters: parameters).responseJSON { [weak self] (response) in

if (response.error != nil) {

let alert = UIAlertController(title: "Email does not exist", message: "", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: nil))

self?.present(alert, animated: true)

}

else {

UserDefaults.standard.set(self?.Email.text, forKey: "email")

let vc = TableViewController.create()

self?.navigationController?.pushViewController(vc, animated: true)

vc.title = self?.Email.text

}

}

}

func assignbackground(){

let background = UIImage(named: "signup.jpg")

var imageView : UIImageView!

imageView = UIImageView(frame: view.bounds)

imageView.contentMode = UIViewContentMode.scaleAspectFill

imageView.clipsToBounds = true

imageView.image = background

imageView.center = view.center

view.addSubview(imageView)

self.view.sendSubview(toBack: imageView)

}

}

//

**// TableViewController.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/19/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

import os.log

import Alamofire

import EVReflection

import SDWebImage

class TableViewController: UITableViewController {

@IBAction func logOut(\_ sender: Any) {

\_ = navigationController?.popViewController(animated: true)

}

var kingdoms = [KingdomEV]()

var myKingdomList: [String] = []

static func create() -> TableViewController {

let storyboard = UIStoryboard(name: "Main", bundle: nil)

let vc = storyboard.instantiateViewController(withIdentifier: "TableViewController")

return vc as! TableViewController

}

func getKingdomData() {

let spinnerView = UITableViewController.displaySpinner(onView: self.view)

kingdoms = [KingdomEV]()

Alamofire.request("https://challenge2015.myriadapps.com/api/v1/kingdoms").responseData(completionHandler: { (response) in

UITableViewController.removeSpinner(spinner: spinnerView)

do {

if let data = response.data

{

let jsonData = try JSONSerialization.jsonObject(with: data, options: JSONSerialization.ReadingOptions.allowFragments) as! [NSDictionary]

for dict in jsonData

{

let kingdom = KingdomEV.init(dictionary: dict)

self.kingdoms.append(kingdom)

}

self.tableView.reloadData()

}

} catch {

}

})

}

override func viewDidLoad() {

super.viewDidLoad()

getKingdomData()

}

override func viewDidAppear(\_ animated: Bool) {

super.viewDidAppear(animated)

tableView.reloadData()

self.navigationItem.setHidesBackButton(true, animated:true);

}

override func didReceiveMemoryWarning() {

super.didReceiveMemoryWarning()

//Dispose of any resources that can be recreated.

}

//MARK: - TableView data source

override func numberOfSections(in tableView: UITableView) -> Int {

return 1

}

override func tableView(\_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {

return kingdoms.count

}

override func tableView(\_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {

let cell = tableView.dequeueReusableCell(withIdentifier: "reuseIdentifier", for: indexPath) as? KingdomViewCell

let kingdom = kingdoms[indexPath.row]

//MARK: Displays Data in Cell

cell?.KingdomName.text = kingdom.name

cell?.Castle.sd\_setImage(with: URL(string: kingdom.image ?? ""), placeholderImage: UIImage(named: "placeholder.png"))

return cell!

}

override func tableView(\_ tableView: UITableView, didSelectRowAt indexPath: IndexPath) {

let myKingdom = kingdoms[indexPath.row]

let vc = KingdomViewController.create(kingdom: myKingdom)

self.navigationController?.pushViewController(vc, animated: true)

}

}

//

// **KingdomViewCell.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/19/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

import SDWebImage

class KingdomViewCell: UITableViewCell {

@IBOutlet weak var Castle: UIImageView!

@IBOutlet weak var KingdomName: UILabel!

var placeholderCastle = UIImage(named: "placeholder.png")!

override func layoutSubviews() {

Castle.layer.cornerRadius = Castle.bounds.height / 2 //round images

Castle.clipsToBounds = true

}

}

**//**

**// KingdomViewController.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/25/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

import Foundation

import EVReflection

import Alamofire

class KingdomViewController : UIViewController {

static func create(kingdom: KingdomEV) -> UIViewController {

let storyboard = UIStoryboard(name: "Main", bundle: nil)

let vc = storyboard.instantiateViewController(withIdentifier: "KingdomViewController") as! KingdomViewController;

vc.kingdom = kingdom

vc.title = kingdom.name

return vc

}

//MARK: KingdomDetails Information

@IBOutlet weak var Weather: UILabel!

@IBOutlet weak var Population: UILabel!

@IBOutlet weak var Castle: UIImageView!

@IBOutlet weak var questView: UIView!

var quest = [QuestEV]()

var kingdom: KingdomEV?

override func viewDidLoad() {

super.viewDidLoad()

getKingdomDetails()

}

func setupChild(content: UIViewController) {

addChildViewController(content)

self.questView.addSubview(content.view)

content.didMove(toParentViewController: self)

}

func getKingdomDetails() {

Alamofire.request("https://challenge2015.myriadapps.com/api/v1/kingdoms/\(kingdom?.id ?? "")").responseData(completionHandler: { (response) in

do {

if let data = response.data

{

print(data)

let jsonData = try JSONSerialization.jsonObject(with: data, options: JSONSerialization.ReadingOptions.allowFragments) as! NSDictionary

let kingdom = KingdomEV.init(dictionary: jsonData)

self.kingdom = kingdom

//MARK: Displays the Data

self.Weather.text = kingdom.climate

self.Population.text = kingdom.population

self.Castle.sd\_setImage(with: URL(string: kingdom.image ?? ""), placeholderImage: UIImage(named: "placeholder.png"))

let vc = PageQuestViewController.create(quests: self.kingdom?.quests ?? [])

self.setupChild(content: vc)

}

} catch let error {

print(error)

}

})

}

}

//

//  **QuestViewController.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 9/27/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import UIKit

import Foundation

import EVReflection

import Alamofire

import SDWebImage

class QuestViewController : UIViewController{

static func create(quest : QuestEV) -> QuestViewController {

let storyboard = UIStoryboard(name: "Main", bundle: nil)

let vc = storyboard.instantiateViewController(withIdentifier: "QuestViewController") as! QuestViewController;

vc.quest = quest

return vc

}

//MARK: Quest Information

@IBOutlet weak var CastleQuest: UIImageView!

@IBOutlet weak var questName: UILabel!

@IBOutlet weak var questDescription: UILabel!

//MARK: Giver Information

@IBOutlet weak var giverPicture: UIImageView!

@IBOutlet weak var giverName: UILabel!

@IBOutlet weak var giverJob: UILabel!

@IBOutlet weak var giverBio: UILabel!

var quest: QuestEV?

override func viewDidLoad() {

super.viewDidLoad()

self.questName.text = quest?.name

self.questDescription.text = quest?.desc

self.CastleQuest.sd\_setImage(with: URL(string: quest?.image ?? ""))

if let giver2 = quest?.giver{

self.getGiverDetails(giver: giver2)

giverPicture.layer.borderWidth = 1

giverPicture.layer.masksToBounds = false

giverPicture.layer.cornerRadius = giverPicture.frame.height/2

giverPicture.clipsToBounds = true

}

}

func getGiverDetails(giver : GiverEV) {

Alamofire.request("https://challenge2015.myriadapps.com/api/v1/characters/\(giver.id ?? "")").responseData(completionHandler: { (response) in

do {

if let data = response.data

{

print(data)

let jsonString = String(data: data, encoding: .utf8)

let jsonData = try JSONSerialization.jsonObject(with: data, options: JSONSerialization.ReadingOptions.allowFragments) as! NSDictionary

let giver = GiverEV.init(dictionary: jsonData)

self.giverName.text = giver.name

self.giverPicture.sd\_setImage(with: URL(string: giver.image ?? ""), placeholderImage: UIImage(named: "placeholder.png"))

self.giverJob.text = giver.profession

self.giverBio.text = giver.bio

}

} catch let error {

print(error)

}

})

}

}

// **PageQuestViewController.swift**

// Maddie Dev Challenge

//

// Created by Madelyn Stephenson on 10/5/18.

// Copyright © 2018 Madelyn Stephenson. All rights reserved.

//

import Foundation

import UIKit

class PageQuestViewController: UIPageViewController {

var myQuests: [String] = []

static func create(quests: [QuestEV]) -> PageQuestViewController {

let storyboard = UIStoryboard(name: "Main", bundle: nil)

let vc = storyboard.instantiateViewController(withIdentifier: "PageQuestViewController") as! PageQuestViewController;

vc.quests = quests

return vc

}

var quests = [QuestEV]()

var pages = [UIViewController]()

func prepareViewControllers() {

let myQuests = quests

var myQuestsViewControllers = [UIViewController]()

for myQuest in myQuests {

let myVC = QuestViewController.create(quest: myQuest)

myQuestsViewControllers.append(myVC)

}

self.pages = myQuestsViewControllers

}

override func viewDidLoad(){

super.viewDidLoad()

self.prepareViewControllers()

self.dataSource = self

self.delegate = self

if let firstVC = pages.first

{

setViewControllers([firstVC], direction: .forward, animated: true, completion: nil)

}

}

}

//MARK: UIPageViewControllerDataSource

extension PageQuestViewController: UIPageViewControllerDataSource

{

func pageViewController(\_ pageViewController: UIPageViewController, viewControllerBefore viewController: UIViewController) -> UIViewController? {

guard let viewControllerIndex = pages.index(of: viewController) else { return nil }

let previousIndex = viewControllerIndex - 1

guard previousIndex >= 0

else { return pages.last }

guard pages.count > previousIndex

else { return nil }

return pages[previousIndex]

}

func pageViewController(\_ pageViewController: UIPageViewController, viewControllerAfter viewController: UIViewController) -> UIViewController?

{

guard let viewControllerIndex = pages.index(of: viewController) else { return nil }

let nextIndex = viewControllerIndex + 1

guard nextIndex < pages.count

else { return pages.first }

guard pages.count > nextIndex

else { return nil }

return pages[nextIndex]

}

}

//MARK: UIPageViewControllerDelegate

extension PageQuestViewController: UIPageViewControllerDelegate { }

