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//
// AdminBeaconViewController.swift
// AttendanceApplication
//

import Foundation
import UIKit
import Alamofire

class AdminBeaconTabViewController: UIViewController {

    // MARK: IBOutlets

    @IBOutlet weak var beaconTableView: UITableView!

    // MARK: Private Properties

    private var searchController = UISearchController(searchResultsController: nil)
    private var beacons: [Beacon] = []
    private var filteredBeacons: [Beacon] = [Beacon]()

    // MARK: UIViewController Methods

    override func viewDidLoad() {
        super.viewDidLoad()

        self.beaconTableView.delegate = self
        self.beaconTableView.dataSource = self

        searchController.searchResultsUpdater = self
        searchController.dimsBackgroundDuringPresentation = false
        definesPresentationContext = true
        beaconTableView.tableHeaderView = searchController.searchBar
    }

    override func viewWillAppear(_ animated: Bool){
        getBeacons()
    }

    override func prepare(for segue: UIStoryboardSegue, sender: Any?) {
        // Called before segue is performed. Used to pass the beacon object selected
        // to the detail view.
        if segue.identifier == "beaconTableToDetail" {
            let destination_VC = segue.destination as!
                AdminBeaconDetailViewController
            destination_VC.beacon = sender as? Beacon
        }
    }

    // MARK: Internal Methods

    internal func getBeacons(){
        let parameters: Parameters = [

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        "type": "admin.get_beacons",
        "args": [
            "query": ""
        ]
    ]

    Alamofire.request(HTTPHelper.url, method: .post, parameters: parameters,
        encoding: JSONEncoding.default).responseJSON {
        response in

        switch response.result {
        case .failure( _):

            return

        case .success(let data):
            // First make sure a dictionary is recieved: Data validation
            guard let json = data as? [String : AnyObject] else {
                // Print statement for debugging purposes, not seen by users.
                print("Failed to get expected dictionary from webserver.")
                return
            }

            // Then make sure that key/value pairs are correct: Data validation
            guard let success = json["successful"] as? Int, let beacons =
                json["beacons"] as? [[String: String]] else {
                // Print statement for debugging purposes, not seen by users.
                print("Failed to get expected data from webserver")
                return
            }

            if success == 1 {
                var beaconObjectList = [Beacon]()
                for beacon in beacons {
                    beaconObjectList.append(Beacon(beaconJSONObject: beacon))
                }
                self.beacons = beaconObjectList
                self.beaconTableView.reloadData()

            } else {

            }
        }
    }
}

```

// MARK: Extentions

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extension AdminBeaconTabViewController: UISearchResultsUpdating {

    func updateSearchResults(for searchController: UISearchController) {
        filteredBeacons = beacons.filter({ (beacon: Beacon) -> Bool in
            if beacon.roomNumber.contains(searchController.searchBar.text!) {
                return true
            }
        })
    }
}

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        } else {
            return false
        }
    })
    self.beaconTableView.reloadData()
}

}

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extension AdminBeaconTabViewController: UITableViewDataSource, UITableViewDelegate {

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    func tableView(_ tableView: UITableView, numberOfRowsInSectionSection section: Int) ->
        Int {
        /*
         * Function called by the program to check how many students exist in the
         * students array, and therefore how many StudentCells are necessary.
         */
        if searchController.isActive && searchController.searchBar.text != "" {
            return filteredBeacons.count
        }

        return beacons.count
    }

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    func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) ->
        UITableViewCell {
        /*
         * Function called at the creation of every new cell in the table. It takes
         * the prototype cell (casted to a StudentCell) and adds the relevant labels.
         */

        let beacon: Beacon

        if searchController.isActive && searchController.searchBar.text != "" {
            beacon = filteredBeacons[filteredBeacons.count - indexPath.row - 1]
        } else {
            beacon = beacons[beacons.count - indexPath.row - 1]
        }

        let cell = tableView.dequeueReusableCell(withIdentifier: "BeaconCell") as!
            BeaconCell
        cell.setLabels(beacon: beacon)
        return cell
    }

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    func tableView(_ tableView: UITableView, didSelectRowAt indexPath: IndexPath) {
        /*
         * Function called when a item is selected. Performs the segue to the detail
         * view.
         */

        let beacon: Beacon

        if searchController.isActive && searchController.searchBar.text != "" {

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        beacon = filteredBeacons[filteredBeacons.count - indexPath.row - 1]
    } else {
        beacon = beacons[beacons.count - indexPath.row - 1]
    }

    performSegue(withIdentifier: "beaconTableToDetail", sender: beacon)
}
}
```