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import UIKit
import ArcGIS

class SQViewController: UIViewController, UITableViewDataSource,
UITableViewDelegate {

    @IBOutlet weak var spinner: UIActivityIndicatorView!
    @IBOutlet weak var mapView: AGSMapView!
    @IBOutlet weak var tableView: UITableView!
    @IBOutlet var searchBar: UISearchBar!

    var map: AGSMap!

    private var MunicipalityFeatureTable: AGSServiceFeatureTable?

    var queriedMunicipalityFeatures = [AGSFeature]()

    var municipalityArray = [[String: String]]()
    var municipalitySearchedArray = [[String: String]]()

    var selectedFeature: AGSFeature!
    var selectedBoundary = ""

    var munName = ""
    var munCode = ""

    var searching = false

    override func viewDidLoad() {
        super.viewDidLoad()

        spinner.startAnimating()

        self.map = AGSMap(basemap: AGSBasemap(baseLayer:
AGSArcGISMapImageLayer(url: .Coast_url)))
        self.mapView.map = self.map
        self.SetMapExtent()

        self.mapView.graphicsOverlays.addObjects(from:
[graphicsOverlay])

        self.Load_Municipality_Boundary()

    }

    func SetMapExtent () {

        let envelope = AGSEnvelope (xMin: 155000.601394999, yMin:
297009.111383, xMax: 246023.662305001, yMax: 495960.810646,
spatialReference: self.mapView.spatialReference)
        self.map.initialViewpoint = AGSViewpoint(targetExtent: envelope)
        self.mapView.map = self.map

        spinner.stopAnimating()
    }
}

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func Load_Municipality_Boundary() {
    self.MunicipalityFeatureTable = AGSServiceFeatureTable(url:
URL(string: "https://services.gisqatar.org.qa/server/rest/services/
Vector/MunicipalityE/MapServer/0"!))
    self.queryMunicipality ()
    self.selectedBoundary = "MUNICIPALITY"
}

//MARK: - UITableView Delegates

func tableView(_ tableView: UITableView, numberOfRowsInSection section: Int) -> Int {
    var boundaryType = 0
    if searching {
        boundaryType = municipalitySearchedArray.count
    } else {
        boundaryType = municipalityArray.count
    }
}

return boundaryType
}

func tableView(_ tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {
    let cell = tableView.dequeueReusableCell(withIdentifier: "Cell",
for: indexPath)
    cell.textLabel?.font = UIFont.systemFont(ofSize: 13.0)
    cell.textLabel?.textColor = UIColor.systemBlue

    let searchText = self.searchBar.text
    var resultText: String!
    var displayFieldValue: String!

    if searching{
        let feature =
self.municipalitySearchedArray[indexPath.row]
        resultText = feature["ENAME"]
        cell.textLabel?.attributedString =
boldSearchResult(searchText!, resultString: resultText as String)
    } else {
        let feature = self.municipalityArray[indexPath.row]
        displayFieldValue = feature["ENAME"]
        cell.textLabel?.text = displayFieldValue
    }
}
}

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    return cell
}

//called the function to make search text Bold in tableview
func boldSearchResult(_ searchString: String, resultString: String)
-> NSMutableAttributedString {

    let attributedString: NSMutableAttributedString =
NSMutableAttributedString(string: resultString)
    let pattern = searchString.lowercased()
    let range: NSRange = NSMakeRange(0, resultString.count)

    if pattern.count > 0 {
        let regex = try! NSRegularExpression(pattern: pattern,
options:.caseInsensitive)
        regex.enumerateMatches(in: resultString.lowercased(),
options: NSRegularExpression.MatchingOptions(), range: range)
{ (textCheckingResult, matchingFlags, stop) -> Void in
            let subRange = textCheckingResult?.range

attributedString.addAttribute(NSAttributedString.Key.foregroundColor,
value: UIColor.red, range: subRange!)
        }
    }
    return attributedString
}

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private func queryMunicipality() {

    let queryParams = AGSQueryParameters()
    queryParams.whereClause = "1=1"

    self.MunicipalityFeatureTable?.populateFromService(with:
queryParams, clearCache: true, outFields: ["*"]) { [weak self]
(queryResult: AGSFeatureQueryResult?, error: Error?) in

        guard let self = self else { return }

        if let error = error {
            //display error
            self.presentAlert(error: error)

        } else if let features =
queryResult?.featureEnumerator().allObjects {

            if !features.isEmpty {

                self.queriedMunicipalityFeatures = features

                let feature = self.queriedMunicipalityFeatures.first
                let att = feature?.attributes.value(forKey: "ENAME")
                self.selectedFeature = feature
                print("Attr: \(String(describing: att))")

                for feature in features {

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        let featureDict = ["CODE" :
feature.attributes.value(forKey: "CODE") as! String,
        "ENAME" :
feature.attributes.value(forKey: "ENAME") as! String,
        "ANAME" :
feature.attributes.value(forKey: "ANAME") as! String,
        ]
        self.municipalityArray.append(featureDict)
    }
    DispatchQueue.main.async {
        self.tableView.reloadData()
    }

    self.spinner.stopAnimating()
} else { //else notify user
    self.presentAlert(message: "NO_RECORD_FOUND")
}
}
}
```