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//
// PlayChallengeRESTWebAPIModelAccessStrategy.swift
// f30
//
// Created by David on 05/02/2018.
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//

import SFCore
import SFModel
import SFSocial
import SFSerialization
import SFNet
import f30Core
import f30Model

/// A strategy for accessing the PlayChallenge model data using a REST Web API
public class PlayChallengeRESTWebAPIModelAccessStrategy:
    RESTWebAPIModelAccessStrategyBase {

    // MARK: - Initializers

    private override init() {
        super.init()
    }

    public override init(connectionString: String,
                          storageDateFormatter: DateFormatter) {
        super.init(connectionString: connectionString,
                    storageDateFormatter: storageDateFormatter,
                    tableName: "PlayChallenges")
    }

    // MARK: - Private Methods

    fileprivate func runQuery(byIsActiveYN isActiveYN: Bool, relativeMemberID:
        String, playGameID: String, collection: ProtocolModelItemCollection,
        oncomplete completionHandler: @escaping ([String : Any]?, Error?) -> Void) {

        #if DEBUG

            if (ApplicationFlags.flag(key: "LoadPlayChallengesDummyDataYN")) {

                self.selectDummy(byIsActiveYN: isActiveYN, relativeMemberID:
                    relativeMemberID, playGameID: playGameID, collection: collection,
                    oncomplete: completionHandler)

                return
            }

        #endif

        // Create the dataWrapper
        let dataWrapper: DataJSONWrapper = DataJSONWrapper()

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dataWrapper.setParameterValue(key: "\
(PlayChallengeDataParameterKeys.IsActiveYN)", value: "\
(BoolHelper.toInt(value: isActiveYN))")

// Create processResponse completion handler
let processResponseCompletionHandler: ([[String:Any]?, URLResponse?,
Error?) -> Void) =
{
    (data, response, error) -> Void in // [weak self]

    // Call the completion handler
    completionHandler(data, error)
}

// Create processResponse
let processResponse: ((NSData?, URLResponse?, Error?) ->
Void) = self.getResponse(oncomplete:
processResponseCompletionHandler)

// Create restApiHelper
let restApiHelper: RESTApiHelper = RESTApiHelper(processResponse:
processResponse, mode: RESTApiHelperMode.CompletionHandler)

// Get the Url
var urlString: String =
    NSLocalizedString("PlayChallengesSelectbyIsActiveYNPlayGameID",
    tableName: "RESTWebAPIConfig", comment: "")
urlString = String(format: urlString,
                    relativeMemberID,
                    playGameID)

// Call the REST Api
restApiHelper.call(urlString: urlString, httpMethod: .POST, data:
dataWrapper)
}

fileprivate func getPlayChallengeObjectiveModelAdministrator() ->
PlayChallengeObjectiveModelAdministrator? {

    // Get modelAdministratorProvider
    let modelAdministratorProvider: ProtocolModelAdministratorProvider? =
    self.delegate?.modelAccessStrategy(getModelAdministratorProvider: self)

    guard (modelAdministratorProvider != nil) else { return nil }

    // Get PlayChallengeObjectiveModelAdministrator
    let pcoma:
    PlayChallengeObjectiveModelAdministrator? =
    modelAdministratorProvider!.getModelAdministrator(key:
    "PlayChallengeObjectives") as? PlayChallengeObjectiveModelAdministrator

    return pcoma
}

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// MARK: - Override Methods
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public override func getRelationalDataWrapper(fromItem item:
ProtocolModelItem) -> DataJSONWrapper? {

    let result:                                DataJSONWrapper? =
        DataJSONWrapper()

    // Create playChallengeObjectiveWrappers
    let playChallengeObjectiveWrappers:        DataJSONWrapper =
        DataJSONWrapper()
    playChallengeObjectiveWrappers.ID = "PlayChallengeObjectives"
    result?.Items.append(playChallengeObjectiveWrappers)

    // Go through each item
    for pco in
        self.getPlayChallengeObjectiveModelAdministrator()!.collection!.items! {

        let pco = pco as! PlayChallengeObjective

        playChallengeObjectiveWrappers.Items.append(pco.copyToWrapper())

    }

    return result
}

public override func setRelationalItems(fromWrapper relationalDataWrapper:
DataJSONWrapper, for item: ProtocolModelItem, originalID: String) {

    // Get playChallengeObjectiveWrappers
    var playChallengeObjectiveWrappers:        DataJSONWrapper? = nil

    // Go through each item
    for item in relationalDataWrapper.Items {

        if (item.ID == "PlayChallengeObjectives") {

            playChallengeObjectiveWrappers = item

        }

    }

    guard (playChallengeObjectiveWrappers != nil) else { return }

    #if DEBUG

        if (ApplicationFlags.flag(key: "SaveDummyDataYN")) {

            var item                                = item as ProtocolModelItem
            item.id                                = UUID().uuidString

            // Go through each item
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        for pco in
            self.getPlayChallengeObjectiveModelAdministrator()!.collection!.items! {

                let pco = pco as! PlayChallengeObjective

                pco.id                = UUID().uuidString
                pco.playChallengeID    = item.id
                pco.status             = .unmodified

            }

        return

    }

#endif

// Go through each item
for pcow in playChallengeObjectiveWrappers!.Items {

    // Get OriginalID
    let oid: String? = pcow.getParameterValue(key:
        "OriginalID")

    guard (oid != nil) else { continue }

    // Get PlayChallengeObjective item
    let pco: PlayChallengeObjective? =
        self.getPlayChallengeObjectiveModelAdministrator()!.collection!.getItem(id: oid!) as? PlayChallengeObjective

    guard (pco != nil) else { continue }

    // Update PlayChallengeObjective
    pco!.id                = pcow.ID
    pco!.playChallengeID    = item.id
    pco!.status             = .unmodified

}

}

// MARK: – Dummy Data Methods

fileprivate func selectDummy(byIsActiveYN isActiveYN: Bool, relativeMemberID:
String, playGameID: String, collection: ProtocolModelItemCollection,
oncomplete completionHandler: @escaping ([String : Any]?, Error?) -> Void) {

    let responseString = NSLocalizedString("byIsActiveYN_playGameID",
        tableName: "PlayChallengesDummyRESTWebAPIResponse", comment: "")

    // Convert the response to JSON dictionary
    let data: [String:Any]? = JSONHelper.stringToJSON(jsonString:
        responseString) as? [String:Any]

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        // Process the data
        let returnData: [String:Any]? =
            self.processRESTWebAPIResponse(responseData: data!)

        // Call the completion handler
        completionHandler(returnData, nil)
    }

}

// MARK: - Extension ProtocolPlayChallengeModelAccessStrategy

extension PlayChallengeRESTWebAPIModelAccessStrategy:
    ProtocolPlayChallengeModelAccessStrategy {

    // MARK: - Public Methods

    public func select(byIsActiveYN isActiveYN: Bool, relativeMemberID: String,
        playGameID: String, collection: ProtocolModelItemCollection, oncomplete
        completionHandler: @escaping ([String : Any]?, ProtocolModelItemCollection?,
        Error?) -> Void) {

        // Create completion handler
        let runQueryCompletionHandler: ([String:Any]?, Error?) -> Void =
            self.getRunQueryCompletionHandler(collection: collection, oncomplete:
            completionHandler)

        // Run the query
        self.runQuery(byIsActiveYN: isActiveYN, relativeMemberID:
            relativeMemberID, playGameID: playGameID, collection: collection,
            oncomplete: runQueryCompletionHandler)
    }

}

```