

```

//
// PlayMoveRESTWebAPIModelAccessStrategy.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 PlayMove model data using a REST Web API
public class PlayMoveRESTWebAPIModelAccessStrategy:
    RESTWebAPIModelAccessStrategyBase {

    // MARK: - Initializers

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

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

    // MARK: - Private Methods

    fileprivate func runQuery(byPlayTileID playTileID: String, playGameID: String,
                              into collection: ProtocolModelItemCollection, oncomplete
                              completionHandler:@escaping ([String:Any]?, Error?) -> Void) {

        #if DEBUG

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

                self.selectDummy(byPlayTileID: playTileID, playGameID: playGameID,
                                into: collection, oncomplete: completionHandler)

                return

            }

        #endif

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

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// 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.getProcessResponse(oncomplete:
processResponseCompletionHandler)

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

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

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

fileprivate func runQuery(byPlayTokenID playTokenID: String, playGameID:
String, into collection: ProtocolModelItemCollection, oncomplete
completionHandler:@escaping ([[String:Any]?, Error?) -> Void) {

    #if DEBUG

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

            self.selectDummy(byPlayTokenID: playTokenID, playGameID:
            playGameID, into: collection, oncomplete: completionHandler)

            return

        }

    #endif

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

    // 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.getProcessResponse(oncomplete:
        processResponseCompletionHandler)

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

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

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

fileprivate func runQuery(byPlayTokenID playTokenID: String, playGameID:
    String, playAreaPathData: String, into collection:
    ProtocolModelItemCollection, oncomplete completionHandler:@escaping
    ([String:Any]?, Error?) -> Void) {

    #if DEBUG

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

            self.selectDummy(byPlayTokenID: playTokenID, playGameID:
                playGameID, playAreaPathData: playAreaPathData, into: collection,
                oncomplete: completionHandler)

            return

        }

    #endif

    // Create the dataWrapper
    let dataWrapper: DataJSONWrapper = DataJSONWrapper()
    dataWrapper.setParameterValue(key: "\
        (PlayMoveDataParameterKeys.PlayAreaPathData)", value: playAreaPathData)

    // 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.getProcessResponse(oncomplete:
        processResponseCompletionHandler)

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

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

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

// MARK: - Override Methods

// MARK: - Dummy Data Methods

fileprivate func selectDummy(byPlayTileID playTileID: String, playGameID:
    String, into collection: ProtocolModelItemCollection, oncomplete
    completionHandler:@escaping ([String:Any]?, Error?) -> Void) {

    let defaultKey: String = "byPlayTileID"
    let key: String = defaultKey + "_\(playTileID)"

    // Get string for key with playTileID
    var responseString: String = NSLocalizedString(key, tableName:
        "PlayMovesDummyRESTWebAPIResponse", comment: "")

    // If not found then use defaultKey
    if (responseString == key) {

        responseString = NSLocalizedString(defaultKey, tableName:
            "PlayMovesDummyRESTWebAPIResponse", comment: "")
    }

    // Convert the response to JSON dictionary

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        let data: [String:Any]? =
            JSONHelper.stringToJSON(jsonString: responseString) as? [String:Any]

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

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

fileprivate func selectDummy(byPlayTokenID playTokenID: String, playGameID:
String, into collection: ProtocolModelItemCollection, oncomplete
completionHandler:@escaping ([String:Any]?, Error?) -> Void) {

    let responseString = NSLocalizedString("byPlayTokenID", tableName:
        "PlayMovesDummyRESTWebAPIResponse", comment: "")

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

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

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

fileprivate func selectDummy(byPlayTokenID playTokenID: String, playGameID:
String, playAreaPathData: String, into collection:
ProtocolModelItemCollection, oncomplete completionHandler:@escaping
([String:Any]?, Error?) -> Void) {

    let responseString = NSLocalizedString("byPlayTokenIDPlayAreaPath",
        tableName: "PlayMovesDummyRESTWebAPIResponse", comment: "")

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

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

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

// MARK: - Extension ProtocolPlayMoveModelAccessStrategy

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```
extension PlayMoveRESTWebAPIModelAccessStrategy:
  ProtocolPlayMoveModelAccessStrategy {
```

```
  // MARK: - Public Methods
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```
  public func select(byPlayTileID playTileID: 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)
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```
    // Run the query
    self.runQuery(byPlayTileID: playTileID, playGameID: playGameID, into:
      collection, oncomplete: runQueryCompletionHandler)
```

```
  }
```

```
  public func select(byPlayTokenID playTokenID: String, playGameID: String,
    collection: ProtocolModelItemCollection, oncomplete
    completionHandler:@escaping ([String:Any]?, ProtocolModelItemCollection?,
    Error?) -> Void) {
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```
    // Create completion handler
    let runQueryCompletionHandler: ([[String:Any]?, Error?) -> Void) =
      self.getRunQueryCompletionHandler(collection: collection, oncomplete:
      completionHandler)
```

```
    // Run the query
    self.runQuery(byPlayTokenID: playTokenID, playGameID: playGameID, into:
      collection, oncomplete: runQueryCompletionHandler)
```

```
  }
```

```
  public func select(byPlayTokenID playTokenID: String, playGameID: String,
    playAreaPathData: 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(byPlayTokenID: playTokenID, playGameID: playGameID,
      playAreaPathData: playAreaPathData, into: collection, oncomplete:
      runQueryCompletionHandler)
```

```
  }
```

```
}
```