Model Class Diagram

SparkExtensions

imageCache: NSCache<Any,Any>

+getToMostViewController(base: UIViewController)
+anchor:(top: NSLayoutYAxisAnchor, left:
NSLayoutXAxisAnchor, bottom:
NSLayoutYAxisAnchor, right:
NSLayoutXAxisAnchor, paddingTop: CGFloat,
paddingLeft: CGFloat, paddingBottom: CGFloat,
PaddingRight: CGFloat, width: CGFloat, height:
CGFloat)
+textContainerView(view: UIView, image: UIImage,
textField: UITextField): UIView
+textField(withPlaceolder placeholder: String,
isSecureTextEntry: Bool): UITextField
+loadImageUsingCacheWithUrlString(urlString:
String)

SparkModels

+DocumentSerializable(documentData:[String])
+SparkUser(uid: String, name: String, email: String,
profileImageUrl: String)
+dictionary:[String]
+DocumentSerializable(documentData:[String])

SparkKeys

+SparkUser(uid: String, name: String,
email: String, profileImageUrl: String,
accountType: String)
+CollectionPath(users: String)
+StorageFolder(profileImages: String)

User

name: String
email: String
profileImageUrl: String
uid: String
accountType: String

Spark

firestoreDatabase: Firestore

+start()
+logout()
+signInWithFacebook(in viewController:
+UIViewController, completion: (_message: String,
_ error: Error))
+signIntoFirebaseWithFacebook(completion: (_
message: String, _ error: Error, _ sparkUser:
SparkUser))
+fetchFacebookUser(completion: (_ message:
String, _ error: Error, _ sparkUser: SparkUser))
+saveUserIntoFirebaseDatabase(profileImageData:
Data, sparkUser: SparkUser, completion: (message:
String, error: Error, sparkUser: SparkUser))
+saveSparkUser(profileImageData: Data,
sparkUser: SparkUser, completion: (message:
String, error: Error, sparkUser: SparkUser))
+fetchProfileImage(sparkUser: SparkUser,
completion: (message: String, error: Error, image:
UIImage))
+fetchCurrentSparkUser(completion: (message:
String, error: Error, sparkUser: SparkUser))
+fetchSparkUser(uid: String, completion: (message:
String, error: Error, sparkUser: SparkUser))
+deleteAsset(fromUrl url: String, completion: (result:
Bool, error: Error))
+getDownloadUrl(from path: String, completion:
(String, Error))

SparkSetup

+Firestore_Users_Collection =
firestoreDatabase.collection(SparkKeys.CollectionPath.users)
+Storage_Profile_Images =
Storage.storage().reference().child()

SparkService

+showAlert(style: UIAlertController.Style,
title: String, message: String, actions:
[UIAlertAction])
+showAlert(style: UIAlertController.Style,
title: String, message: String, textField:
[UITextField], completion: [String])
+dismissHud(hud: JGProgressHUD, text:
String, detailText: String, delay:
TimeInterval)

Message

+mid: String
+fromId: String
+text: String
+timestamp: NSNumber
+toId: String
+imageUrl: String
+imageWidth: NSNumber
+imageHeight: NSNumber

Friendlist

name:String
id: String
profileImage: String