**Appendix D: Code Listing**

AppDelegate.swift

//

// AppDelegate.swift

**import** UIKit

**import** Firebase

**@UIApplicationMain**

**class** AppDelegate: UIResponder, UIApplicationDelegate {

**var** window: UIWindow?

**func** application(**\_** application: UIApplication, didFinishLaunchingWithOptions launchOptions: [UIApplication.LaunchOptionsKey: **Any**]?) -> Bool {

// Override point for customization after application launch

FirebaseApp.configure()

Auth.auth().addStateDidChangeListener { (auth, user) **in**

**let** storyboard = UIStoryboard(name: "Main", bundle: **nil**)

**if** user != **nil** {

**let** controller = storyboard.instantiateViewController(withIdentifier: "MainTabController") **as**! MainTabController

controller.selectedViewController = controller.viewControllers?[1]

**self**.window?.rootViewController = controller

**self**.window?.makeKeyAndVisible()

} **else** {

**let** controller = storyboard.instantiateViewController(withIdentifier: "LoginViewController")

**self**.window?.rootViewController = controller

**self**.window?.makeKeyAndVisible()

}

}

**return** **true**

}

**func** applicationWillResignActive(**\_** application: UIApplication) {

// Sent when the application is about to move from active to inactive state. This can occur for certain types of temporary interruptions (such as an incoming phone call or SMS message) or when the user quits the application and it begins the transition to the background state.

// Use this method to pause ongoing tasks, disable timers, and invalidate graphics rendering callbacks. Games should use this method to pause the game.

}

**func** applicationDidEnterBackground(**\_** application: UIApplication) {

// Use this method to release shared resources, save user data, invalidate timers, and store enough application state information to restore your application to its current state in case it is terminated later.

// If your application supports background execution, this method is called instead of applicationWillTerminate: when the user quits.

}

**func** applicationWillEnterForeground(**\_** application: UIApplication) {

// Called as part of the transition from the background to the active state; here you can undo many of the changes made on entering the background.

}

**func** applicationDidBecomeActive(**\_** application: UIApplication) {

// Restart any tasks that were paused (or not yet started) while the application was inactive. If the application was previously in the background, optionally refresh the user interface.

}

**func** applicationWillTerminate(**\_** application: UIApplication) {

// Called when the application is about to terminate. Save data if appropriate. See also applicationDidEnterBackground:.

**func** logOut(completion:**@escaping**(**\_** errorOccured: Bool) -> Void) {

**let** firebaseAuth = Auth.auth()

**do** {

**try** firebaseAuth.signOut()

} **catch** **\_** **as** NSError {

completion(**true**)

}

completion(**false**)

}

}

}

LoginViewController.swift

//

// LoginViewController.swift

**import** UIKit

**import** Firebase

**class** LoginViewController: UIViewController, UITextFieldDelegate {

//MARK: **Properties**

**@IBOutlet** **weak** **var** emailField: UITextField!

**@IBOutlet** **weak** **var** passwordField: UITextField!

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

//Handle the text field's user inputs through delegate callbacks

emailField.delegate = **self**

passwordField.delegate = **self**

}

//MARK: **Actions**

**func** textFieldShouldReturn(**\_** textField: UITextField) -> Bool {

textField.resignFirstResponder()

**return** **true**

}

**@IBAction** **func** loginTapped(**\_** sender: UIButton) {

//Validating the user has entered something in the TextFields

**if** emailField.text != "" && passwordField.text != "" {

//Logging in existing user with email and password typed in text fields

Auth.auth().signIn(withEmail: emailField.text!, password: passwordField.text!) { (user, error) **in** //escaping closure which returns the user or an error depending on if they are authenticated

**if** error != **nil**{

**self**.handleLoginError(error!)

}

}

} **else** {

**let** alert = UIAlertController(title: "Email or password were not entered", message: "Try Again", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

**self**.present(alert, animated: **true**)

}

}

**@IBAction** **func** SignUpTapped(**\_** sender: UIButton) {

//Validating the user has entered something in the TextFields

**if** emailField.text != "" && passwordField.text != "" {

//Signing up new user with email and password typed in the text fields

Auth.auth().createUser(withEmail: emailField.text!, password: passwordField.text!) { (user, error) **in**

**if** error != **nil** {

**self**.handleLoginError(error!)

} **else** {

**let** user = Auth.auth().currentUser

**let** signUpRef = Database.database().reference()

signUpRef.child("users").child(user!.uid).child("email").setValue(**self**.emailField.text!)

}

}

} **else** {

**let** alert = UIAlertController(title: "Email or password were not entered", message: "Try Again", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

**self**.present(alert, animated: **true**)

}

}

**@IBAction** **func** dismissKeyboard(**\_** sender: **Any**) {

**self**.resignFirstResponder()

}

**private** **func** handleLoginError (**\_** error:Error) {

//Creating alert

**let** alert = UIAlertController(title: "Unknown Error", message: "Try Again", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

//Checking error codes

**switch** error.\_code {

**case** 17007, 17008, 17011: //emailAlreadyInUse, invalideEmailFormat, userNotFound

alert.title = "Enter a different email" //Changing alert title to inform user what the problem was

**if** error.\_code == 17007 {

alert.message = "The email you entered is already being used"

} **else** **if** error.\_code == 17008 {

alert.message = alert.title

alert.title = "Invalid email format"

} **else** {

alert.message = alert.title

alert.title = "User not found"

}

**self**.present(alert, animated: **true**)

**case** 17009: //wrongPassword

alert.title = "Enter different password"

alert.message = "The password you entered was incorrect"

**self**.present(alert, animated: **true**)

**case** 17005: //accountDisabled

alert.title = "Error"

alert.message = "Account is Disabled"

**self**.present(alert, animated: **true**)

**case** 17026: //weakPassword

alert.title = "Enter a different password"

alert.message = "The password you chose was too weak"

**self**.present(alert, animated: **true**)

**default**:

alert.title = "Unknown error"

alert.message = "\(error.localizedDescription), \(error.\_code)"

**self**.present(alert, animated: **true**)

}

}

}

MainTabController.swift

//

// MainTabController.swift

//Class is used for navigation between the main pages

**import** Foundation

**import** UIKit

**class** MainTabController : UITabBarController {

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

}

}

CameraViewController.swift

//

// CameraViewController.swift

//Tabscanner URl: https://api.tabscanner.com/{api\_key}/process

//Tabscanner API Key: xQngF5pQoxXOC0tM1PGJaFVCkrmiWpfJO721MvoNlSFYjlTQ7atZe3747bQIMLti

**import** Foundation

**import** UIKit

**import** Photos

**import** Firebase

**class** CameraViewController : UIViewController, UIImagePickerControllerDelegate, UINavigationControllerDelegate {

//MARK: **Properties**

**@IBOutlet** **weak** **var** imageDisplay: UIImageView!

**let** pickerController = UIImagePickerController() // UIImagePickerController is a view controller that lets a user pick media from their photo library.

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

pickerController.delegate = **self** //Make sure CameraViewController is notified when the user picks an image.

pickerController.allowsEditing = **false**

pickerController.mediaTypes = ["public.image"]

checkPermission()

}

//MARK: **checkPermissions**

**private** **func** checkPermission() {

**let** photoAuthorizationStatus = PHPhotoLibrary.authorizationStatus()

**switch** photoAuthorizationStatus {

**case** .authorized:

print("Access granted by user")

**case** .notDetermined:

print("Not Determined") //THIS IS WHAT HAPPENS

PHPhotoLibrary.requestAuthorization({ (newStatus) **in**

**if** (newStatus == PHAuthorizationStatus.authorized) {

print("Access granted by user")

} **else** {

print("Access denied by user")

}

})

**case** .restricted:

print("restrictted")

**case** .denied:

print("denied")

**@unknown** **default**:

print("unknown")

}

}

//MARK: **Actions**

**@IBAction** **func** photosTapped(**\_** sender: **Any**) {

pickerController.sourceType = .photoLibrary //Only photos picked from photolibrary

**self**.present(pickerController, animated : **true**, completion : **nil**)

}

**@IBAction** **func** cameraTapped(**\_** sender: **Any**) {

pickerController.sourceType = .camera //Only photos taken from camera

**self**.present(pickerController, animated : **true**, completion : **nil**)

}

**@objc** **func** imagePickerControllerDidCancel(**\_** picker: UIImagePickerController) {

//Dismiss the picker if the user canceled

dismiss(animated: **true**, completion: **nil**)

}

**@objc** **func** imagePickerController(**\_** pickerController: UIImagePickerController, didFinishPickingMediaWithInfo info: [UIImagePickerController.InfoKey : **Any**]) {

**guard** **let** chosenImage = info[UIImagePickerController.InfoKey.originalImage] **as**? UIImage **else** {

fatalError("Expected a dictionary containing an image, but was provided the following: \(info)")

}

**self**.imageDisplay.contentMode = .scaleAspectFit

**self**.imageDisplay.image = chosenImage

pickerController.dismiss(animated: **true**, completion: **nil**)

post(with: chosenImage)

}

**private** **func** post(with image: UIImage) {

**var** parsedUpload: [String:**Any**] = ["":""]

**var** receiptUploadToken: String = ""

**var** duplicate: Bool = **false**

**var** uploadComponents = URLComponents() //Create url components

uploadComponents.scheme = "https"

uploadComponents.host = "api.tabscanner.com"

uploadComponents.path = "/xQngF5pQoxXOC0tM1PGJaFVCkrmiWpfJO721MvoNlSFYjlTQ7atZe3747bQIMLti/process"

**guard** **let** uploadUrlToExecute = uploadComponents.url **else** {

**return**

}

//Parameters of the upload

**let** parameters = [

"decimalPlaces": 2,

] **as** [String : **Any**]

//Calling upload function from networking client

//Everything inside closure because upload is asynchronous

NetworkingClient.uploadForOCR(image: image, to: uploadUrlToExecute, params: parameters) { (jsonData) **in**

//Create Receipt object containing this data

parsedUpload = NetworkingClient.parseJson(parse: jsonData!)

//checking if JSONSerialization failed

**if** parsedUpload["serializationStatus"] **as**! Int == 1 {

print("JSONSerialization error – retake photo")

} //else do nothing

//checking API's upload response codes

**switch** parsedUpload["code"] **as**! Int {

**case** 200:

print("Image uploaded successfully")

**case** 300:

print("Image uploaded, but did not meet the recommended dimension of 720x1280 (WxH)")

**case** 403:

print("No file detected") //should never happen

**case** 407:

print("Unsupported file extension – reupload")

**default**:

print(parsedUpload["code"]!)

}

**if** (parsedUpload["duplicateToken"] **as**? String) != **nil** {

receiptUploadToken = parsedUpload["duplicateToken"] **as**! String

duplicate = **true**

} **else** {

receiptUploadToken = parsedUpload["token"] **as**! String

}

//Getting upload result

**var** getComponents = URLComponents() //Create url components for upload (path changes)

getComponents.scheme = "https"

getComponents.host = "api.tabscanner.com"

getComponents.path = "/xQngF5pQoxXOC0tM1PGJaFVCkrmiWpfJO721MvoNlSFYjlTQ7atZe3747bQIMLti/result/\(receiptUploadToken)"

**guard** **let** getURL = getComponents.url **else** {

print("Invalid")

**return**

}

**self**.get(from: getURL, using: image, isduplicate: duplicate, withToken: receiptUploadToken)

}

}

**private** **func** get(from getURL:URL, using image:UIImage, isduplicate duplicate:Bool, withToken receiptUploadToken:String) {

**var** parsedGET: [String:**Any**] = ["":""]

//Takes about 5.0s for upload to be processed

DispatchQueue.main.asyncAfter(deadline: .now() + 5.0) {

NetworkingClient.getOCRData(to: getURL) { (receiptJSON) **in**

parsedGET = NetworkingClient.parseJson(parse: receiptJSON!)

//checking if JSONSerialization failed

**if** parsedGET["serializationStatus"] **as**! Int == 1 {

**let** alert = UIAlertController(title: "Upload faile", message: "Try Again", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

**self**.present(alert, animated: **true**)

} //else do nothing

//checking API's get response codes

**switch** parsedGET["code"] **as**! Int {

**case** 202:

**let** destinationViewController = **self**.storyboard?.instantiateViewController(withIdentifier: "ConfirmReceiptViewController") **as**! ConfirmReceiptViewController //Segueing to ConfirmReceiptViewController

**let** receipt = Receipt(uploadResponse: parsedGET, uploadToken: receiptUploadToken, hasBeenUploaded: duplicate)

destinationViewController.passData(withReceipt: receipt)

**self**.navigationController?.pushViewController(destinationViewController, animated: **true**)

**case** 301:

//Result not yet available

**self**.get(from: getURL, using: image, isduplicate: duplicate, withToken: receiptUploadToken)

**case** 401:

print("Not enough credit")

**case** 402:

print("Token not found")

**default**:

print(parsedGET["code"]!)

}

}

}

}

//Logout

**@IBAction** **func** logOutTapped(**\_** sender: **Any**) {

**try**! Auth.auth().signOut()

}

}

ConfirmReceiptsViewController.swift

//

// LoadingViewController.swift

**import** Foundation

**import** UIKit

**class** ConfirmReceiptViewController : UIViewController{

//MARK: **Properties**

**@IBOutlet** **weak** **var** dateTextField: UITextField!

**@IBOutlet** **weak** **var** totalTextField: UITextField!

**@IBOutlet** **weak** **var** buyerTextField: UITextField!

**@IBOutlet** **weak** **var** lineItemsView: UITableView!

**@IBOutlet** **weak** **var** addingItemTextField: UITextField!

**@IBOutlet** **weak** **var** addingPriceTextField: UITextField!

**@IBOutlet** **weak** **var** addingQtyTextField: UITextField!

**@IBOutlet** **weak** **var** categoryPickerView: UIPickerView!

**@IBOutlet** **weak** **var** duplicateReceiptLabel: UILabel!

**@IBOutlet** **weak** **var** verifyReceiptButton: UIButton!

**var** receipt: Receipt! //Always not-nil

**var** lineItems: [[String:**Any**]]!

**private** **let** categories = ["Miscellaneous", "Groceries", "Lifestyle", "Personal & Discretionary", "Transportation"] //Array of all categories of receipts

**var** preUploaded = **false**

//MARK: **Actions**

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

showData()

lineItemsView.delegate = **self**

lineItemsView.dataSource = **self**

lineItemsView.tableFooterView = UIView(frame: CGRect.zero)

categoryPickerView.delegate = **self**

categoryPickerView.dataSource = **self**

}

**func** passData(withReceipt createdReceipt: Receipt, hasBeenUploaded uploaded:Bool = **false**) {

preUploaded = uploaded

receipt = createdReceipt

lineItems = receipt.getLineItems()

}

**private** **func** showData() {

//setting text field values

dateTextField.text = receipt.getDate()

totalTextField.text = "\(receipt.getTotal())"

buyerTextField.text = receipt.getBuyer()

//If receipt is downloaded from firebase, user should not be able to edit it

**if** preUploaded {

duplicateReceiptLabel.isHidden = **true**

verifyReceiptButton.isHidden = **true**

} **else** {

duplicateReceiptLabel.isHidden = !receipt.isDuplicate()

verifyReceiptButton.isHidden = **false**

}

}

//If user edits the OCR data, the receipt object data is updated

**@IBAction** **func** verifyReceiptTapped(**\_** sender: **Any**) {

receipt.setBuyer(as: buyerTextField.text!)

receipt.setLineItems(to: lineItems)

receipt.setDate(to: dateTextField.text!)

receipt.setCategory(to: categories[categoryPickerView.selectedRow(inComponent: 0)])

receipt.setTotal(to: totalTextField.text!)

FirebaseHandler.uploadReceipt(thisreceipt: receipt)

verifyReceiptButton.isHidden = **true**

}

**@IBAction** **func** AddLineItem(**\_** sender: **Any**) {

//Validating that textFields are not empty

**if** addingItemTextField.text != "" && Double(addingPriceTextField.text!) != **nil** && Double(addingQtyTextField.text!) != **nil** {

lineItems.append(["desc":addingItemTextField.text!, "lineTotal":addingPriceTextField.text!, "qty":addingQtyTextField.text!]) //Adding item the user wants to add to the receipt

**let** indexPath = IndexPath(row: lineItems.count - 1, section: 0)

lineItemsView.beginUpdates()

lineItemsView.insertRows(at: [indexPath], with: .automatic)

lineItemsView.endUpdates()

//Adding the lineItem to the table view

addingItemTextField.text = ""

addingPriceTextField.text = ""

addingQtyTextField.text = ""

view.endEditing(**true**)

} **else** {

//UIAlert

**let** alert = UIAlertController(title: "Wrong Format", message: "Enter item name, and use only numbers for price and quantity", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

**self**.present(alert, animated: **true**)

}

}

}

**extension** ConfirmReceiptViewController: UITableViewDataSource, UITableViewDelegate, UIPickerViewDelegate, UIPickerViewDataSource {

//MARK: **UITableView Protocols**

**func** tableView(**\_** tableView: UITableView, numberOfRowsInSection section: Int) -> Int {

**return** lineItems.count

}

**func** tableView(**\_** tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {

**let** lineItem: [String:**Any**] = lineItems[indexPath.row]

**let** cell = tableView.dequeueReusableCell(withIdentifier: "LineItemsCell") **as**! LineItemsCell

cell.setLineItem(lineItem: lineItem)

**return** cell

}

**func** tableView(**\_** tableView: UITableView, canEditRowAt indexPath: IndexPath) -> Bool {

**return** **true**

}

**func** tableView(**\_** tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt indexPath: IndexPath) {

**if** editingStyle == .delete {

lineItems.remove(at: indexPath.row)

lineItemsView.beginUpdates()

lineItemsView.deleteRows(at: [indexPath], with: .automatic)

lineItemsView.endUpdates()

}

}

//MARK:**UIPickerView Protocols**

**func** numberOfComponents(in pickerView: UIPickerView) -> Int {

**return** 1

}

**func** pickerView(**\_** pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {

**return** categories.count

}

**func** pickerView(**\_** pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {

**return** categories[row]

}

}

LineItemsCell.swift

//

// LineItemsCell.swift

**import** UIKit

**class** LineItemsCell: UITableViewCell {

**@IBOutlet** **weak** **var** itemTextField: UITextField!

**@IBOutlet** **weak** **var** qtyTextField: UITextField!

**@IBOutlet** **weak** **var** priceTextField: UITextField!

**func** setLineItem(lineItem: [String:**Any**]) {

//Setting each cells data correctly

itemTextField.text = (lineItem["desc"] **as**! String)

priceTextField.text = "\(lineItem["lineTotal"] ?? "unknown")"

qtyTextField.text = "\(lineItem["qty"] ?? "unknown")"

}

}

ExpenditureViewController.swift

//

// ExpenditureViewController.swift

**import** Foundation

**import** UIKit

**class** ExpenditureViewController : UIViewController,UIPickerViewDataSource,UIPickerViewDelegate {

**private** **var** pickerMonthsYear:[String] = [""] //Add more months & years from firebase

//TODO: Should get from firebase class

**@IBOutlet** **weak** **var** monthPickerView: UIPickerView! //Need to have multiple components – month and year

**@IBOutlet** **weak** **var** totalExpenditureLabel: UILabel!

**@IBOutlet** **weak** **var** groceryExpenditureLabel: UILabel!

**@IBOutlet** **weak** **var** lifestyleExpenditureLabel: UILabel!

**@IBOutlet** **weak** **var** personalExpenditureLabel: UILabel!

**@IBOutlet** **weak** **var** transportExpenditureLabel: UILabel!

**@IBOutlet** **weak** **var** miscExpenditureLabel: UILabel!

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

FirebaseHandler.downloadUserDates { (downloadedDates) **in**

**self**.pickerMonthsYear = downloadedDates

//Setting pickerView data

**self**.monthPickerView.delegate = **self**

**self**.monthPickerView.dataSource = **self**

**self**.viewExpenditureTapped(**self**)

}

}

//Downloading expedniture from database

**@IBAction** **func** viewExpenditureTapped(**\_** sender: **Any**) {

FirebaseHandler.getExpenditure(for: pickerMonthsYear[monthPickerView.selectedRow(inComponent: 0)]) { (expenditure) **in**

**self**.totalExpenditureLabel.text = "$" + expenditure["total"]!

**self**.groceryExpenditureLabel.text = "$" + expenditure["groceryTotal"]!

**self**.lifestyleExpenditureLabel.text = "$" + expenditure["lifestyleTotal"]!

**self**.personalExpenditureLabel.text = "$" + expenditure["personalTotal"]!

**self**.transportExpenditureLabel.text = "$" + expenditure["transportTotal"]!

**self**.miscExpenditureLabel.text = "$" + expenditure["miscellaneousTotal"]!

}

}

//MARK: **Conforming to pickerview protocols**

//Month and year --> 2 components

**func** numberOfComponents(in pickerView: UIPickerView) -> Int {

**return** 1

}

**func** pickerView(**\_** pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {

**return** pickerMonthsYear.count

}

**func** pickerView(**\_** pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {

**return** pickerMonthsYear[row]

}

}

ManageViewController.swift

//

// ManageViewController.swift

**import** Foundation

**import** UIKit

**class** ManageViewController : UIViewController {

**@IBOutlet** **weak** **var** monthCategoryPickerView: UIPickerView!

**@IBOutlet** **weak** **var** receiptsTableView: UITableView!

**private** **var** pickerData:[[String]] = [[],["All", "Groceries", "Lifestyle", "Personal & Discretionary", "Transportation", "Miscellaneous"]]

**private** **var** receipts:[[String:**Any**]] = []

**override** **func** viewDidLoad() {

**super**.viewDidLoad()

//Setting table view to show the data

receiptsTableView.delegate = **self**

receiptsTableView.dataSource = **self**

receiptsTableView.tableFooterView = UIView(frame: CGRect.zero)

//downloading user dates from database to hold in pickerData. Shown in the pickerview

FirebaseHandler.downloadUserDates { (downloadedDates) **in**

**self**.pickerData[0] = downloadedDates

**self**.monthCategoryPickerView.delegate = **self**

**self**.monthCategoryPickerView.dataSource = **self**

}

}

//User wants to see the receipts

**@IBAction** **func** viewReceiptsTapped(**\_** sender: **Any**) {

**let** dateSelected = pickerData[0][monthCategoryPickerView.selectedRow(inComponent: 0)]

**let** categorySelected = pickerData[1][monthCategoryPickerView.selectedRow(inComponent: 1)]

**if** categorySelected.elementsEqual("All") {

//Use download all receipts for date

FirebaseHandler.downloadReceipts(for: dateSelected) { (downloadedReceipts) **in**

**self**.receipts = downloadedReceipts

**self**.receiptsTableView.reloadData() //reloading table view

}

} **else** {

//Use download receipts for date & category

//Check if no receipts

FirebaseHandler.downloadReceipts(for: dateSelected, in: categorySelected) { (downloadedReceipts) **in**

**if** downloadedReceipts.isEmpty {

//Send UI Alert that users have no receipts in this category

**let** alert = UIAlertController(title: "No Receipts", message: "There are no receipts in this category. Choose a different category", preferredStyle: .alert)

alert.addAction(UIAlertAction(title: "Ok", style: .cancel, handler: **nil**))

**self**.present(alert, animated: **true**)

**self**.receipts = []

} **else** {

**self**.receipts = downloadedReceipts

}

**self**.receiptsTableView.reloadData()

}

}

}

}

**extension** ManageViewController: UITableViewDataSource, UITableViewDelegate, UIPickerViewDelegate, UIPickerViewDataSource {

//Conforming to pickerview and tableview protocols

**func** numberOfComponents(in pickerView: UIPickerView) -> Int {

**return** 2

}

**func** pickerView(**\_** pickerView: UIPickerView, numberOfRowsInComponent component: Int) -> Int {

**if** component == 0 {

**return** pickerData[0].count

} **else** {

**return** pickerData[1].count

}

}

**func** pickerView(**\_** pickerView: UIPickerView, titleForRow row: Int, forComponent component: Int) -> String? {

**if** component == 0 {

**return** pickerData[0][row]

} **else** {

**return** pickerData[1][row]

}

}

**func** tableView(**\_** tableView: UITableView, numberOfRowsInSection section: Int) -> Int {

**return** receipts.count

}

**func** tableView(**\_** tableView: UITableView, cellForRowAt indexPath: IndexPath) -> UITableViewCell {

**let** receiptData: [String:**Any**] = receipts[indexPath.row]

**let** cell = tableView.dequeueReusableCell(withIdentifier: "ReceiptsCell") **as**! ReceiptsCell

cell.setReceipt(receipt: receiptData)

**return** cell

}

**func** tableView(**\_** tableView: UITableView, canEditRowAt indexPath: IndexPath) -> Bool {

**return** **true**

}

**func** tableView(**\_** tableView: UITableView, commit editingStyle: UITableViewCell.EditingStyle, forRowAt indexPath: IndexPath) {

**if** editingStyle == .delete {

FirebaseHandler.deleteReceipt(receipts[indexPath.row])

receipts.remove(at: indexPath.row)

receiptsTableView.beginUpdates()

receiptsTableView.deleteRows(at: [indexPath], with: .automatic)

receiptsTableView.endUpdates()

}

}

**func** tableView(**\_** tableView: UITableView, didSelectRowAt indexPath: IndexPath) {

tableView.deselectRow(at: indexPath, animated: **true**)

**let** destinationDetailViewController = **self**.storyboard?.instantiateViewController(withIdentifier: "ConfirmReceiptViewController") **as**! ConfirmReceiptViewController

//Everything from here on happens inside closure from FirebaseHandlerFunction

//call passData on destinationDetailViewController

FirebaseHandler.getFullReceiptData(fromReceipt: receipts[indexPath.row]) { (receiptData) **in**

destinationDetailViewController.passData(withReceipt: receiptData, hasBeenUploaded: **true**)

**self**.navigationController?.pushViewController(destinationDetailViewController, animated: **true**)

}

}

}

ReceiptsCell.swift

//

// ReceiptsCell.swift

**import** UIKit

**import** Foundation

**class** ReceiptsCell: UITableViewCell {

**@IBOutlet** **weak** **var** categoryLabel: UILabel!

**@IBOutlet** **weak** **var** totalLabel: UILabel!

**@IBOutlet** **weak** **var** buyerLabelValue: UILabel!

**@IBOutlet** **weak** **var** dateLabel: UILabel!

**@IBOutlet** **weak** **var** totalLabelValue: UILabel!

**@IBOutlet** **weak** **var** buyerLabel: UILabel!

**@IBOutlet** **weak** **var** dateLabelValue: UILabel!

**func** setReceipt(receipt:[String:**Any**]) {

//setting data for each cell

**let** shortData = receipt[Array(receipt.keys)[0]] **as**? [String:String]

buyerLabelValue.text! = shortData!["buyer"]!

totalLabelValue.text! = "$" + shortData!["total"]!

dateLabelValue.text! = shortData!["date"]!

categoryLabel.text! = shortData!["category"]!

}

}

Receipt.swift

//

// Receipt.swift

/\* This class is used for uploading receipt images to TabScanner, and then downloading the ocr

result in a JSON encoded format.

Result will then be uploaded to firebase database using a class which will be created called DatabaseClient

DatabaseClient needs to look through the existing database and put the corresponding items from the receipt

being uploaded into their corresponding categories – – and who bought the items (user or friend)

\*/

**import** Foundation

**import** UIKit

**import** Alamofire

/\* From parsedUpload; use: duplicate:boolean(1 or 0)–use to tell if user has reuploaded, token:String

From parsedGet; use: lineItems:Array of objects, totalConfidence:float, (sub)total:float, date:String (if nil-use phone upload date)

lineItem object; use: lineTotal:float, desc:String –contains words on same line as lineTotal, descClean:String —may contain weight (e.g 500G/GM or 0.84x12.90/KG, qty:int (defaults to 0), unit:float –may contain weight

\*/

//TODO: Use static variable for getting data array from Firebase

**final** **class** Receipt {

//MARK: **Properties**

//private var receiptPic: UIImage //Contains picture of receipt (required?)

**private** **var** boughtBy: String //"User" or "<name of friend>"

//private var uploadResponse: [String:Any] //Dictionary that contains complete response from GET result to Tabscanner (required?)

//private var receiptOCR: [String:Any] //OCR Data of receipt in form of a dictionary (required?)

**private** **var** token: String //Token of receipt on Tabscanner

**private** **var** lineItems: [[String:**Any**]] //Array for all the line items

**private** **var** date: String //Date of receipt

**private** **var** duplicate: Bool //Checking if receipt has been uploaded 2+ times by user

**private** **var** category: String //Category of the receipt

**private** **var** total: String

//MARK: **Initialization from camera view controller**

**init**(boughtBy buyer:String = "me", uploadResponse response:[String:**Any**], uploadToken tokenID: String, hasBeenUploaded duplicateUpload: Bool = **false**, ofCategory receiptCategory:String = "Miscellaneous") {

boughtBy = buyer

**let** receiptOCR = response["result"] **as**! [String:**Any**]

token = tokenID

total = receiptOCR["total"] **as**! String

lineItems = receiptOCR["lineItems"] **as**! [[String:**Any**]]

//Removing unecessary data in lineItems

**for** i **in** 0 ..< lineItems.count {

lineItems[i].removeValue(forKey: "descClean")

lineItems[i].removeValue(forKey: "discount")

lineItems[i].removeValue(forKey: "lineType")

lineItems[i].removeValue(forKey: "productCode")

lineItems[i].removeValue(forKey: "symbols")

lineItems[i].removeValue(forKey: "price")

lineItems[i].removeValue(forKey: "unit")

lineItems[i].removeValue(forKey: "customFields")

lineItems[i].removeValue(forKey: "supplementaryLineItems")

}

date = receiptOCR["date"] **as**! String

//Checking if date is not empty

**if** date.isEmpty {

**let** defaultDate = Date()

**let** format = DateFormatter()

format.timeZone = .current

format.dateFormat = "yyyy-MM-dd HH:mm:ss"

date = format.string(from: defaultDate)

}

duplicate = duplicateUpload

category = receiptCategory

}

//MARK: **Second initialiser used FirebaseHandler**

**init**(boughtBy buyer:String = "me", uploadToken tokenID: String, hasBeenUploaded duplicateUpload: Bool = **false**, ofCategory receiptCategory:String = "Miscellaneous", onDate thisDate:String, withItems items:[[String:**Any**]], ofTotal totalSpent:String) {

boughtBy = buyer

token = tokenID

date = thisDate

duplicate = duplicateUpload

category = receiptCategory

total = totalSpent

lineItems = items

}

//MARK: **Accessor methods**

**func** getBuyer() -> String {

**return** boughtBy

}

**func** getToken() -> String {

**return** token

} //Token is given by Tabscanner… can't be changed; therefore, no mutator method

**func** getLineItems() -> [[String:**Any**]] {

**return** lineItems

}

**func** getDate() -> String {

**return** date

}

**func** getCategory() -> String {

**return** category

}

**func** isDuplicate() -> Bool {

**return** duplicate

} //Has no mutator method because is determined only by upload to Tabscanner

**func** getTotal() -> String {

**return** total

}

//MARK: **Mutator methods**

**func** setBuyer(as buyer:String) {

boughtBy = buyer

}

**func** setLineItems(to newLine:[[String:**Any**]]) {

lineItems = newLine

}

**func** setDate(to newDate:String) {

date = newDate

}

**func** setCategory(to newCategory:String) {

category = newCategory

}

**func** setTotal(to newTotal:String) {

total = newTotal

}

}

NetworkingClient.swift

//

// NetworkingClient.swift

**import** Foundation

**import** Alamofire //Using Alamofire library to manage networking requests

**class** NetworkingClient {

//MARK: **POST/GET to TabScanner**

**static** **func** uploadForOCR(image: UIImage, to url: URL, params: [String: **Any**], uploadCompletion: **@escaping** (Data?) -> Void) {

//AF.upload(multipartFormData: <#T##(MultipartFormData) -> Void#>, to: <#T##URLConvertible#>) – function being used

//convert image:UIImage to type Data for the .append function to use:

**let** imageJpeg = image.jpegData(compressionQuality: 0.8)! //compression is 0.8 for high quality

//Using multipartFormData as required by api

AF.upload(multipartFormData: { multiPart **in**

**for** (key, value) **in** params {

**if** **let** temp = value **as**? String {

multiPart.append(temp.data(using: .utf8)!, withName: key)

}

**if** **let** temp = value **as**? Int {

multiPart.append("\(temp)".data(using: .utf8)!, withName: key)

}

}

multiPart.append(imageJpeg, withName: "file", fileName: "file.png", mimeType: "image/png")

}, to: url **as** URLConvertible)

.uploadProgress(queue: .main, closure: { progress **in**

//Current upload progress of file

})

.responseData(completionHandler: { responseData **in**

//Do what ever you want to do with response

//responseData is AF DataResponse<Any> object

//.data returns a Data?

//Check data is not nil with guard let then return

uploadCompletion(responseData.data) //Closure called when function ends

})

}

**static** **func** getOCRData(to url: URL, getCompletion: **@escaping** (Data?) -> Void) {

//this function is called before upload is done

//using Alamofire's request method – method is get by default

AF.request(url).uploadProgress(queue: .main, closure: { progress **in**

//Current upload progress of file

})

.responseData(completionHandler: { responseData **in**

//Do what ever you want to do with response

//responseData is AF DataResponse<Any> object

//.data returns a Data?

getCompletion(responseData.data) //Closure called when function ends

})

}

**static** **func** parseJson(parse data: Data) -> [String:**Any**] {

**var** serializationStatus = 0

**var** jsonReturn: [String:**Any**] = [:]

**do** {

//JSONSerialization is a library in swift

//JSONSerialization library imported within import Foundation

//Converts type Data? to [String:Any] dictionary

**if** **let** json = **try** JSONSerialization.jsonObject(with: data, options: []) **as**? [String:**Any**] {

jsonReturn = json

}

} **catch** **let** error {

print(error.localizedDescription)

serializationStatus = 1

}

jsonReturn["serializationStatus"] = serializationStatus

**return** jsonReturn

}

}

FirebaseHandler.swift

//

// FirebaseHandler.swift

**import** Foundation

**import** Firebase

**class** FirebaseHandler {

**private** **static** **let** databaseRef = Database.database().reference()

**private** **static** **let** user = Auth.auth().currentUser!

**private** **static** **var** userDates:[String] = [] //Holds downloaded years from firebase user profile

**private** **static** **var** userExpenditure = ["Total":"", "Groceries":"", "Lifestyle":"", "Personal":"", "Transport": "", "Miscellaneous":""] //Dictionary of different expenditures for each month

**private** **static** **var** receiptsForMonth = [Receipt]()

**static** **func** downloadUserDates(getDates complete: **@escaping**([String]) -> Void) {

databaseRef.child("users").child(user.uid).child("months").observe(.value) { (snapshot) **in**

userDates.removeAll()

//For ordering cast as NSDictionary

**if** **let** datesForUser = snapshot.value **as**? NSDictionary {

**for** date **in** datesForUser.allKeys {

userDates.append(date **as**! String)

}

}

//datesForUser is a [String:[String:String]] where first string is the date and the dictionary of strings is the expenditure totals

complete(userDates)

}

}

**static** **func** getExpenditure(for date: String, complete: **@escaping**([String:String]) -> Void) {

//Call calculate expenditure function which is escaping

databaseRef.child("users").child(user.uid).child("months").child(date).removeAllObservers()

databaseRef.child("users").child(user.uid).child("months").child(date).observe(.value) { (snapshot) **in**

**if** **let** expenditureDict = snapshot.value **as**? [String:String] {

complete(expenditureDict)

}

}

//Called from ExpenditureViewController

}

**static** **func** downloadReceipts(for date: String, when complete: **@escaping**([[String:**Any**]]) -> Void) {

//Called from ManageViewController when category == "All"

**var** receiptsBriefArray:[[String:**Any**]] = []

//Creating array to hold all receipts

**let** categories = ["Groceries", "Lifestyle", "Personal & Discretionary", "Transportation", "Miscellaneous"]

**let** allCategoriesRef = databaseRef.child("month").child(date).child(user.uid)

//Querying database to get receipts

allCategoriesRef.observeSingleEvent(of: .value) { (snapshot) **in**

**for** category **in** categories {

**if** **let** receiptHeldDict = snapshot.childSnapshot(forPath: "\(category)/receipts").value **as**? [String:**Any**] {

//Copying receipts from each category into array

**for** (token, briefData) **in** receiptHeldDict {

receiptsBriefArray.append([token:briefData])

}

}

}

complete(receiptsBriefArray)

}

}

**static** **func** downloadReceipts(for date: String, in category: String, when complete: **@escaping**([[String:**Any**]]) -> Void) {

//Called from ManageViewController when category != "All"

**var** receiptsBriefArray:[[String:**Any**]] = []

**let** categoryRef = databaseRef.child("month").child(date).child(user.uid).child(category)

categoryRef.observeSingleEvent(of: .value) { (snapshot) **in**

**if** **let** receiptHeldDict = snapshot.childSnapshot(forPath: "receipts").value **as**? [String:**Any**] {

**for** (token, briefData) **in** receiptHeldDict {

receiptsBriefArray.append([token:briefData])

}

}

complete(receiptsBriefArray)

}

}

**static** **func** uploadReceipt(thisreceipt receipt:Receipt) {

//Called from confirmReceiptsViewController

//Changes database

databaseRef.child("month").child(String(receipt.getDate().prefix(7))).child(user.uid).child(receipt.getCategory()).child("receipts").child(receipt.getToken()).setValue(["total":receipt.getTotal(), "date":receipt.getDate(), "buyer":receipt.getBuyer(), "category":receipt.getCategory()]) { (err1, ref1) **in**

//Call databaseChanged

databaseChanged(at: "month/\(String(receipt.getDate().prefix(7)))/\(user.uid)", in: String(receipt.getDate().prefix(7)))

}

//if duplicate receipt uploaded data in .child("month") does not change if the month is different then original or if category is different to original

//Check if month or category is different

//month or month & category different: go to og month and deleteReceipt(receipt) in og category

//if category different go to .child("month").child(String(receipt.getDate().prefix(7))) and og category and delete

//update duplicate receipt in .child("receipts")

//Adding receipt to month

//Need check for if receipt is duplicate

//If duplicate then the data in .child("receipts") changes automatically

databaseRef.child("receipts").child(receipt.getToken()).setValue(["date":receipt.getDate(), "total":receipt.getTotal(), "category":receipt.getCategory(), "buyer":receipt.getBuyer(), "duplicate":receipt.isDuplicate()]) { (error, ref) **in**

**let** lineItemsRef = databaseRef.child("receipts").child(receipt.getToken()).child("lineItems")

lineItemsRef.setValue(receipt.getLineItems(), withCompletionBlock: { (err2, ref2) **in**

//Handle error

})

}

//Add to array of receipts

//Upload to firebase with token as ID (check if duplicate & ask if need update)

//Add receipt token + buyer + total + date to correct month/year with correct user and correct category

//Add month/year to user profile

}

**static** **func** deleteReceipt(**\_** receipt:[String:**Any**]) {

//Called from ManageViewController

//delete receipt in database (opposite of upload function

**let** receiptToDeleteData = receipt[Array(receipt.keys)[0]] **as**! [String:String]

**let** tokenToDelete = Array(receipt.keys)[0]

//1. Deleting receipt from database child receipts

databaseRef.child("receipts").child(tokenToDelete).removeValue()

//2. Deleting receipt from database child month

databaseRef.child("month").child(String(receiptToDeleteData["date"]!.prefix(7))).child(user.uid).child(receiptToDeleteData["category"]!).child("receipts").child(tokenToDelete).removeValue { (err, ref) **in**

//3. Checking if there are no receipts in that month for that user (user.uid doesn't exist in that month)

//updating database child users months

databaseRef.child("month").child(String(receiptToDeleteData["date"]!.prefix(7))).observeSingleEvent(of: .value, with: { (snapshotFindingUID) **in**

**if** !snapshotFindingUID.hasChild(user.uid) {

//edit user profile for months

databaseRef.child("users").child(user.uid).child("months").child(String(receiptToDeleteData["date"]!.prefix(7))).removeValue()

} **else** {

databaseChanged(at: "month/\(String(receiptToDeleteData["date"]!.prefix(7)))/\(user.uid)", in: String(receiptToDeleteData["date"]!.prefix(7)))

}

})

}

}

//Function recalculates all totals for the changes made to that month for that user

**private** **static** **func** databaseChanged(at path:String, in month:String) {

//Recalculate total for that category in that month for that user (in user profile)

//Update total for user for specific month by adding categories again

**var** recalculatedTotals:[String:Double] = ["total":0, "Groceries":0, "Lifestyle":0, "Personal & Discretionary":0, "Transportation":0, "Miscellaneous":0]

databaseRef.child(path).observeSingleEvent(of: .value) { (snapshot) **in**

**if** **let** categoryDictionary = snapshot.value **as**? [String:**Any**] {

**for** category **in** categoryDictionary.keys {

//Calculating category total

**if** **let** receiptDataDictionary = snapshot.childSnapshot(forPath: "\(category)/receipts").value **as**? [String:**Any**] {

**for** (token, data) **in** receiptDataDictionary {

**if** **let** receiptInfo = data **as**? [String:String] {

recalculatedTotals[category] = recalculatedTotals[category]! + Double(receiptInfo["total"]!)!

}

}

}

}

}

recalculatedTotals["total"] = recalculatedTotals["Groceries"]! + recalculatedTotals["Lifestyle"]! + recalculatedTotals["Personal & Discretionary"]! + recalculatedTotals["Transportation"]! + recalculatedTotals["Miscellaneous"]!

// Converting into a [String:String]

**let** recalculatedTotalsStringDict = ["total": "\(String(describing: recalculatedTotals["total"]!))", "groceryTotal": "\(String(describing: recalculatedTotals["Groceries"]!))", "lifestyleTotal": "\(String(describing: recalculatedTotals["Lifestyle"]!))", "personalTotal":"\(String(describing: recalculatedTotals["Personal & Discretionary"]!))", "transportTotal":"\(String(describing: recalculatedTotals["Transportation"]!))", "miscellaneousTotal":"\(String(describing: recalculatedTotals["Miscellaneous"]!))"]

databaseRef.child("users").child(user.uid).child("months").child(month).setValue(recalculatedTotalsStringDict)

}

}

**static** **func** getFullReceiptData(fromReceipt receiptBriefData:[String:**Any**], when complete: **@escaping**(Receipt) -> Void) {

//Called from ManageViewController when passing data to ConfirmReceiptViewController

//Creates a Receipt object after downloading data from Firebase

**let** token = Array(receiptBriefData.keys)[0]

databaseRef.child("receipts").child(token).observeSingleEvent(of: .value) { (snapshot) **in**

**if** **let** receiptData = snapshot.value **as**? [String:**Any**] {

**let** buyer = receiptData["buyer"] **as**! String

**let** category = receiptData["category"] **as**! String

**let** date = receiptData["date"] **as**! String

**let** total = receiptData["total"] **as**! String

**let** lineItems = receiptData["lineItems"] **as**! NSArray **as**! [[String:**Any**]]

**let** receipt:Receipt = Receipt(boughtBy: buyer, uploadToken: token, hasBeenUploaded: **true**, ofCategory: category, onDate: date, withItems: lineItems, ofTotal: total)

complete(receipt)

}

}

}

}

Storyboard

**<?xml version=**"1.0" **encoding=**"UTF-8"**?>**

**<document** type**=**"com.apple.InterfaceBuilder3.CocoaTouch.Storyboard.XIB"version**=**"3.0"toolsVersion**=**"14490.70"targetRuntime**=**"iOS.CocoaTouch"propertyAccessControl**=**"none"useAutolayout**=**"YES"useTraitCollections**=**"YES"useSafeAreas**=**"YES"colorMatched**=**"YES"initialViewController**=**"BYZ-38-t0r"**>**

**<device** id**=**"retina4\_7"orientation**=**"portrait"**>**

**<adaptation** id**=**"fullscreen"**/>**

**</device>**

**<dependencies>**

**<deployment** identifier**=**"iOS"**/>**

**<plugIn** identifier**=**"com.apple.InterfaceBuilder.IBCocoaTouchPlugin"version**=**"14490.49"**/>**

**<capability** name**=**"Safe area layout guides"minToolsVersion**=**"9.0"**/>**

**<capability** name**=**"documents saved in the Xcode 8 format"minToolsVersion**=**"8.0"**/>**

**</dependencies>**

**<scenes>**

<!--Login View Controller-->

**<scene** sceneID**=**"tne-QT-ifu"**>**

**<objects>**

**<viewController** storyboardIdentifier**=**"LoginViewController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"BYZ-38-t0r"customClass**=**"LoginViewController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<view** key**=**"view"contentMode**=**"scaleToFill"id**=**"8bC-Xf-vdC"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"667"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**<subviews>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"alignment**=**"center"spacing**=**"70"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"fWu-9x-fJY"userLabel**=**"LoginSV"**>**

**<rect** key**=**"frame"x**=**"35.5"y**=**"288.5"width**=**"304.5"height**=**"90"**/>**

**<subviews>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"alignment**=**"top"spacing**=**"30"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"PnC-BZ-2rt"userLabel**=**"EmailPasswordSV"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"9.5"width**=**"78.5"height**=**"71"**/>**

**<subviews>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Email:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"GCc-5e-EbT"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"45.5"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Password:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"WBK-Sz-29z"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"50.5"width**=**"78.5"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**</stackView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"spacing**=**"30"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"rnf-WD-E4B"userLabel**=**"TextBoxEntrySV"**>**

**<rect** key**=**"frame"x**=**"148.5"y**=**"0.0"width**=**"156"height**=**"90"**/>**

**<subviews>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"placeholder**=**"Enter Email Here"textAlignment**=**"natural"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"Oo4-W5-Kdp"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"156"height**=**"30"**/>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"returnKeyType**=**"done"enablesReturnKeyAutomatically**=**"YES"**/>**

**<connections>**

**<action** selector**=**"dismissKeyboard:"destination**=**"BYZ-38-t0r"eventType**=**"editingDidEndOnExit"id**=**"70D-RH-csj"**/>**

**</connections>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"placeholder**=**"Enter Password Here"textAlignment**=**"natural"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"Nls-65-esb"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"60"width**=**"156"height**=**"30"**/>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"returnKeyType**=**"done"enablesReturnKeyAutomatically**=**"YES"secureTextEntry**=**"YES"**/>**

**<connections>**

**<action** selector**=**"dismissKeyboard:"destination**=**"BYZ-38-t0r"eventType**=**"editingDidEndOnExit"id**=**"W3D-3P-7Q2"**/>**

**</connections>**

**</textField>**

**</subviews>**

**</stackView>**

**</subviews>**

**</stackView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"spacing**=**"215"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"cjS-wO-Uyk"userLabel**=**"ButtonsSV"**>**

**<rect** key**=**"frame"x**=**"34"y**=**"408.5"width**=**"307"height**=**"30"**/>**

**<subviews>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"BrK-Uq-r7B"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"54"height**=**"30"**/>**

**<state** key**=**"normal"title**=**"Sign Up"**/>**

**<connections>**

**<action** selector**=**"SignUpTapped:"destination**=**"BYZ-38-t0r"eventType**=**"touchUpInside"id**=**"Mjd-K9-WvS"**/>**

**</connections>**

**</button>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"ImH-HB-apb"**>**

**<rect** key**=**"frame"x**=**"269"y**=**"0.0"width**=**"38"height**=**"30"**/>**

**<state** key**=**"normal"title**=**"Login"**/>**

**<connections>**

**<action** selector**=**"loginTapped:"destination**=**"BYZ-38-t0r"eventType**=**"touchUpInside"id**=**"6ef-hg-Pua"**/>**

**</connections>**

**</button>**

**</subviews>**

**</stackView>**

**</subviews>**

**<color** key**=**"backgroundColor"red**=**"1"green**=**"1"blue**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"sRGB"**/>**

**<constraints>**

**<constraint** firstItem**=**"fWu-9x-fJY"firstAttribute**=**"centerY"secondItem**=**"8bC-Xf-vdC"secondAttribute**=**"centerY"id**=**"I8U-S6-A8v"**/>**

**<constraint** firstItem**=**"cjS-wO-Uyk"firstAttribute**=**"top"secondItem**=**"fWu-9x-fJY"secondAttribute**=**"bottom"constant**=**"30"id**=**"Uc2-bo-geu"**/>**

**<constraint** firstItem**=**"cjS-wO-Uyk"firstAttribute**=**"centerX"secondItem**=**"8bC-Xf-vdC"secondAttribute**=**"centerX"id**=**"b7R-Gz-Inj"**/>**

**<constraint** firstItem**=**"fWu-9x-fJY"firstAttribute**=**"centerX"secondItem**=**"8bC-Xf-vdC"secondAttribute**=**"centerX"id**=**"twG-z8-5gW"**/>**

**</constraints>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"6Tk-OE-BBY"**/>**

**</view>**

**<connections>**

**<outlet** property**=**"emailField"destination**=**"Oo4-W5-Kdp"id**=**"lZs-DO-0uh"**/>**

**<outlet** property**=**"passwordField"destination**=**"Nls-65-esb"id**=**"vwh-zM-nok"**/>**

**</connections>**

**</viewController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"dkx-z0-nzr"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"96"y**=**"90"**/>**

**</scene>**

<!--Camera View Controller-->

**<scene** sceneID**=**"yS1-yX-TpD"**>**

**<objects>**

**<viewController** storyboardIdentifier**=**"CameraViewController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"ief-C1-gAl"userLabel**=**"Camera View Controller"customClass**=**"CameraViewController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<view** key**=**"view"contentMode**=**"scaleToFill"id**=**"EMJ-wp-ITv"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"667"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**<subviews>**

**<imageView** clipsSubviews**=**"YES"userInteractionEnabled**=**"NO"contentMode**=**"scaleAspectFit"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"placeholderIntrinsicWidth**=**"374"placeholderIntrinsicHeight**=**"704"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"C3s-pu-noy"userLabel**=**"Image Display"**>**

**<rect** key**=**"frame"x**=**"20"y**=**"84"width**=**"335"height**=**"469"**/>**

**</imageView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"spacing**=**"100"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"3fK-rS-jdH"**>**

**<rect** key**=**"frame"x**=**"86.5"y**=**"573"width**=**"202"height**=**"30"**/>**

**<subviews>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"SxW-J1-VuF"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"48"height**=**"30"**/>**

**<state** key**=**"normal"title**=**"Photos"**/>**

**<connections>**

**<action** selector**=**"photosTapped:"destination**=**"ief-C1-gAl"eventType**=**"touchUpInside"id**=**"kCp-36-tJO"**/>**

**</connections>**

**</button>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"oPB-0b-v9y"**>**

**<rect** key**=**"frame"x**=**"148"y**=**"0.0"width**=**"54"height**=**"30"**/>**

**<state** key**=**"normal"title**=**"Camera"**/>**

**<connections>**

**<action** selector**=**"cameraTapped:"destination**=**"ief-C1-gAl"eventType**=**"touchUpInside"id**=**"7jI-uM-sen"**/>**

**</connections>**

**</button>**

**</subviews>**

**</stackView>**

**</subviews>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<constraints>**

**<constraint** firstItem**=**"C3s-pu-noy"firstAttribute**=**"leading"secondItem**=**"wXa-ne-Ixd"secondAttribute**=**"leading"constant**=**"20"id**=**"BtA-I2-sgv"**/>**

**<constraint** firstItem**=**"3fK-rS-jdH"firstAttribute**=**"top"secondItem**=**"C3s-pu-noy"secondAttribute**=**"bottom"constant**=**"20"id**=**"F1G-Xm-5xj"**/>**

**<constraint** firstItem**=**"3fK-rS-jdH"firstAttribute**=**"centerX"secondItem**=**"EMJ-wp-ITv"secondAttribute**=**"centerX"id**=**"I53-L6-xpe"**/>**

**<constraint** firstItem**=**"wXa-ne-Ixd"firstAttribute**=**"trailing"secondItem**=**"C3s-pu-noy"secondAttribute**=**"trailing"constant**=**"20"id**=**"IV1-1C-eyt"**/>**

**<constraint** firstItem**=**"C3s-pu-noy"firstAttribute**=**"top"secondItem**=**"wXa-ne-Ixd"secondAttribute**=**"top"constant**=**"20"id**=**"Q1x-G3-ZOG"**/>**

**<constraint** firstItem**=**"wXa-ne-Ixd"firstAttribute**=**"bottom"secondItem**=**"3fK-rS-jdH"secondAttribute**=**"bottom"constant**=**"15"id**=**"RPI-0z-yew"**/>**

**</constraints>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"wXa-ne-Ixd"**/>**

**</view>**

**<navigationItem** key**=**"navigationItem"id**=**"pIU-HJ-i2y"**>**

**<barButtonItem** key**=**"rightBarButtonItem"title**=**"Log Out"id**=**"6qd-nj-k2y"**>**

**<connections>**

**<action** selector**=**"logOutTapped:"destination**=**"ief-C1-gAl"id**=**"RGC-6i-PtG"**/>**

**</connections>**

**</barButtonItem>**

**</navigationItem>**

**<connections>**

**<outlet** property**=**"imageDisplay"destination**=**"C3s-pu-noy"id**=**"uIe-rX-N9i"**/>**

**</connections>**

**</viewController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"J50-Si-W8P"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**<view** contentMode**=**"scaleToFill"id**=**"dfg-uj-4ea"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"401"height**=**"691"**/>**

**<autoresizingMask** key**=**"autoresizingMask"flexibleMaxX**=**"YES"flexibleMaxY**=**"YES"**/>**

**<subviews>**

**<imageView** clipsSubviews**=**"YES"userInteractionEnabled**=**"NO"contentMode**=**"scaleAspectFit"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"fixedFrame**=**"YES"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"7uW-ki-ngy"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"401"height**=**"691"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**</imageView>**

**</subviews>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"oqe-FI-Zq3"**/>**

**</view>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"5060"y**=**"1101.4992503748126"**/>**

**</scene>**

<!--ManageViewController-->

**<scene** sceneID**=**"vZJ-S1-0zM"**>**

**<objects>**

**<viewController** storyboardIdentifier**=**"ManageViewController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"P8N-0w-nw2"userLabel**=**"ManageViewController"customClass**=**"ManageViewController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<view** key**=**"view"contentMode**=**"scaleToFill"id**=**"qr7-ft-td4"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"667"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**<subviews>**

**<pickerView** tag**=**"1"contentMode**=**"scaleToFill"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"eWt-Xh-EWi"userLabel**=**"MonthCategoryPickerView"**>**

**<rect** key**=**"frame"x**=**"-0.5"y**=**"101"width**=**"376"height**=**"75"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"376"id**=**"9pA-aT-ZrX"**/>**

**<constraint** firstAttribute**=**"height"constant**=**"75"id**=**"yis-tT-nIi"**/>**

**</constraints>**

**</pickerView>**

**<tableView** clipsSubviews**=**"YES"contentMode**=**"scaleToFill"alwaysBounceVertical**=**"YES"dataMode**=**"prototypes"style**=**"plain"separatorStyle**=**"default"rowHeight**=**"-1"estimatedRowHeight**=**"-1"sectionHeaderHeight**=**"28"sectionFooterHeight**=**"28"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"kXL-BB-WWa"userLabel**=**"ReceiptsTableView"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"184"width**=**"375"height**=**"351"**/>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<prototypes>**

**<tableViewCell** clipsSubviews**=**"YES"contentMode**=**"scaleToFill"preservesSuperviewLayoutMargins**=**"YES"selectionStyle**=**"default"indentationWidth**=**"10"reuseIdentifier**=**"ReceiptsCell"rowHeight**=**"122"id**=**"Osh-iS-mLK"userLabel**=**"ReceiptsCell"customClass**=**"ReceiptsCell"customModule**=**"CS\_IA"customModuleProvider**=**"target"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"28"width**=**"375"height**=**"122"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**<tableViewCellContentView** key**=**"contentView"opaque**=**"NO"clipsSubviews**=**"YES"multipleTouchEnabled**=**"YES"contentMode**=**"center"preservesSuperviewLayoutMargins**=**"YES"insetsLayoutMarginsFromSafeArea**=**"NO"tableViewCell**=**"Osh-iS-mLK"id**=**"nNN-PP-iOA"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"121.5"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**<subviews>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Label"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"RTG-5y-T1R"userLabel**=**"CategoryLabel"**>**

**<rect** key**=**"frame"x**=**"15"y**=**"11.5"width**=**"50"height**=**"26.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Total: "textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"XHP-kW-JRt"userLabel**=**"TotalLabel"**>**

**<rect** key**=**"frame"x**=**"15"y**=**"86"width**=**"54"height**=**"26"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"height"constant**=**"26"id**=**"CRB-4b-60h"**/>**

**<constraint** firstAttribute**=**"width"constant**=**"54"id**=**"pz4-1Y-7tX"**/>**

**</constraints>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Label"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"HVG-ew-0Jx"userLabel**=**"BuyerLabelValue"**>**

**<rect** key**=**"frame"x**=**"310"y**=**"11.5"width**=**"50"height**=**"26"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Date:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"4r0-Ud-Kbh"userLabel**=**"DateLabel"**>**

**<rect** key**=**"frame"x**=**"15"y**=**"49"width**=**"49"height**=**"26"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"49"id**=**"8JH-5A-a26"**/>**

**<constraint** firstAttribute**=**"height"constant**=**"26"id**=**"xen-T1-y1j"**/>**

**</constraints>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Label"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"wpE-kP-n5t"userLabel**=**"TotalLabelValue"**>**

**<rect** key**=**"frame"x**=**"77"y**=**"85.5"width**=**"50"height**=**"26.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Buyer:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"qaJ-h5-fsP"userLabel**=**"BuyerLabel"**>**

**<rect** key**=**"frame"x**=**"243"y**=**"11.5"width**=**"59"height**=**"26"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"59"id**=**"hgL-WE-eit"**/>**

**<constraint** firstAttribute**=**"height"constant**=**"26"id**=**"jlr-dN-qP9"**/>**

**</constraints>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"yyyy/mm/dd HH:mm:ss"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"TVe-vg-oC0"userLabel**=**"DateLabelValue"**>**

**<rect** key**=**"frame"x**=**"72"y**=**"48.5"width**=**"215"height**=**"26"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**<constraints>**

**<constraint** firstItem**=**"HVG-ew-0Jx"firstAttribute**=**"trailing"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"trailingMargin"id**=**"1LB-iZ-XvO"**/>**

**<constraint** firstItem**=**"4r0-Ud-Kbh"firstAttribute**=**"top"secondItem**=**"RTG-5y-T1R"secondAttribute**=**"bottom"constant**=**"11"id**=**"1nZ-xe-9Er"**/>**

**<constraint** firstItem**=**"TVe-vg-oC0"firstAttribute**=**"leading"secondItem**=**"4r0-Ud-Kbh"secondAttribute**=**"trailing"constant**=**"8"id**=**"Bcn-7K-TCl"**/>**

**<constraint** firstItem**=**"TVe-vg-oC0"firstAttribute**=**"top"secondItem**=**"qaJ-h5-fsP"secondAttribute**=**"bottom"constant**=**"11"id**=**"CCw-3P-lL2"**/>**

**<constraint** firstItem**=**"XHP-kW-JRt"firstAttribute**=**"leading"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"leadingMargin"id**=**"Cuw-9q-RhN"**/>**

**<constraint** firstItem**=**"RTG-5y-T1R"firstAttribute**=**"top"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"topMargin"id**=**"F81-QI-vzq"**/>**

**<constraint** firstItem**=**"4r0-Ud-Kbh"firstAttribute**=**"leading"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"leadingMargin"id**=**"JvF-pp-Qij"**/>**

**<constraint** firstItem**=**"qaJ-h5-fsP"firstAttribute**=**"top"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"topMargin"id**=**"TU5-8W-s2q"**/>**

**<constraint** firstItem**=**"wpE-kP-n5t"firstAttribute**=**"top"secondItem**=**"TVe-vg-oC0"secondAttribute**=**"bottom"constant**=**"11"id**=**"VrB-zf-wqB"**/>**

**<constraint** firstItem**=**"wpE-kP-n5t"firstAttribute**=**"bottom"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"bottomMargin"id**=**"ccy-5F-aYG"**/>**

**<constraint** firstItem**=**"4r0-Ud-Kbh"firstAttribute**=**"centerY"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"centerY"id**=**"eOP-Os-j4p"**/>**

**<constraint** firstItem**=**"wpE-kP-n5t"firstAttribute**=**"leading"secondItem**=**"XHP-kW-JRt"secondAttribute**=**"trailing"constant**=**"8"id**=**"gyP-Yq-Qnp"**/>**

**<constraint** firstItem**=**"XHP-kW-JRt"firstAttribute**=**"top"secondItem**=**"4r0-Ud-Kbh"secondAttribute**=**"bottom"constant**=**"11"id**=**"kgA-hi-l01"**/>**

**<constraint** firstItem**=**"TVe-vg-oC0"firstAttribute**=**"centerY"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"centerY"id**=**"nI3-iv-wCV"**/>**

**<constraint** firstItem**=**"RTG-5y-T1R"firstAttribute**=**"leading"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"leadingMargin"id**=**"oNJ-9p-E8a"**/>**

**<constraint** firstItem**=**"HVG-ew-0Jx"firstAttribute**=**"leading"secondItem**=**"qaJ-h5-fsP"secondAttribute**=**"trailing"constant**=**"8"id**=**"pGP-ki-yoB"**/>**

**<constraint** firstItem**=**"HVG-ew-0Jx"firstAttribute**=**"top"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"topMargin"id**=**"tgc-Xg-O2d"**/>**

**<constraint** firstItem**=**"XHP-kW-JRt"firstAttribute**=**"bottom"secondItem**=**"nNN-PP-iOA"secondAttribute**=**"bottomMargin"id**=**"vqA-b8-mIE"**/>**

**</constraints>**

**</tableViewCellContentView>**

**<connections>**

**<outlet** property**=**"buyerLabel"destination**=**"qaJ-h5-fsP"id**=**"KBO-bG-xpg"**/>**

**<outlet** property**=**"buyerLabelValue"destination**=**"HVG-ew-0Jx"id**=**"oQu-NE-KVi"**/>**

**<outlet** property**=**"categoryLabel"destination**=**"RTG-5y-T1R"id**=**"aga-sN-sSS"**/>**

**<outlet** property**=**"dateLabel"destination**=**"4r0-Ud-Kbh"id**=**"JAl-uZ-PXV"**/>**

**<outlet** property**=**"dateLabelValue"destination**=**"TVe-vg-oC0"id**=**"e0v-de-UcE"**/>**

**<outlet** property**=**"totalLabel"destination**=**"XHP-kW-JRt"id**=**"9xK-ab-YVB"**/>**

**<outlet** property**=**"totalLabelValue"destination**=**"wpE-kP-n5t"id**=**"TFZ-Eo-arg"**/>**

**</connections>**

**</tableViewCell>**

**</prototypes>**

**</tableView>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"dOB-6X-Nmc"userLabel**=**"ViewReceiptsButton"**>**

**<rect** key**=**"frame"x**=**"96.5"y**=**"552.5"width**=**"182"height**=**"48"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"30"**/>**

**<state** key**=**"normal"title**=**"View Receipts"**/>**

**<connections>**

**<action** selector**=**"viewReceiptsTapped:"destination**=**"P8N-0w-nw2"eventType**=**"touchUpInside"id**=**"GcL-DT-Cup"**/>**

**</connections>**

**</button>**

**</subviews>**

**<color** key**=**"backgroundColor"red**=**"0.99999600649999998"green**=**"1"blue**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"sRGB"**/>**

**<constraints>**

**<constraint** firstItem**=**"dOB-6X-Nmc"firstAttribute**=**"top"secondItem**=**"kXL-BB-WWa"secondAttribute**=**"bottom"constant**=**"17.5"id**=**"5xa-3z-0yy"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"top"secondItem**=**"eWt-Xh-EWi"secondAttribute**=**"bottom"constant**=**"8"id**=**"8S7-tC-liw"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"leading"secondItem**=**"qr7-ft-td4"secondAttribute**=**"leading"id**=**"Lrz-sd-JtZ"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"centerX"secondItem**=**"qr7-ft-td4"secondAttribute**=**"centerX"id**=**"NSN-VA-Pj8"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"top"secondItem**=**"eWt-Xh-EWi"secondAttribute**=**"bottom"constant**=**"8"id**=**"RFx-JR-eTI"**/>**

**<constraint** firstItem**=**"eWt-Xh-EWi"firstAttribute**=**"centerX"secondItem**=**"qr7-ft-td4"secondAttribute**=**"centerX"id**=**"SNf-xt-95q"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"top"secondItem**=**"eWt-Xh-EWi"secondAttribute**=**"bottom"constant**=**"8"id**=**"SwX-pw-UGY"**/>**

**<constraint** firstItem**=**"eWt-Xh-EWi"firstAttribute**=**"top"secondItem**=**"m2d-ny-EhE"secondAttribute**=**"top"constant**=**"37"id**=**"YV5-pL-7nX"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"top"secondItem**=**"eWt-Xh-EWi"secondAttribute**=**"bottom"constant**=**"8"id**=**"ZIu-fK-xqU"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"centerX"secondItem**=**"qr7-ft-td4"secondAttribute**=**"centerX"id**=**"cZl-7p-Xf8"**/>**

**<constraint** firstItem**=**"dOB-6X-Nmc"firstAttribute**=**"centerX"secondItem**=**"qr7-ft-td4"secondAttribute**=**"centerX"id**=**"fAF-eJ-ro7"**/>**

**<constraint** firstItem**=**"kXL-BB-WWa"firstAttribute**=**"top"secondItem**=**"eWt-Xh-EWi"secondAttribute**=**"bottom"constant**=**"8"id**=**"gQ8-fs-Gyh"**/>**

**<constraint** firstItem**=**"m2d-ny-EhE"firstAttribute**=**"bottom"secondItem**=**"kXL-BB-WWa"secondAttribute**=**"bottom"constant**=**"83"id**=**"vkX-Uz-Wz3"**/>**

**</constraints>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"m2d-ny-EhE"**/>**

**</view>**

**<navigationItem** key**=**"navigationItem"id**=**"dx3-xm-Jbg"**/>**

**<connections>**

**<outlet** property**=**"monthCategoryPickerView"destination**=**"eWt-Xh-EWi"id**=**"xo9-8h-JQ1"**/>**

**<outlet** property**=**"receiptsTableView"destination**=**"kXL-BB-WWa"id**=**"XUx-JK-ZAH"**/>**

**</connections>**

**</viewController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"tBX-RG-wu3"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"2708"y**=**"1192.3538230884558"**/>**

**</scene>**

<!--Confirm Receipt View Controller-->

**<scene** sceneID**=**"Opd-VQ-PdT"**>**

**<objects>**

**<viewController** storyboardIdentifier**=**"ConfirmReceiptViewController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"X7D-LD-9qn"customClass**=**"ConfirmReceiptViewController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<view** key**=**"view"contentMode**=**"scaleToFill"id**=**"ZNo-ch-8AF"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"667"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**<subviews>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"alignment**=**"top"spacing**=**"25"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"dyP-1F-hnB"userLabel**=**"PropertyStackView"**>**

**<rect** key**=**"frame"x**=**"20"y**=**"95"width**=**"49"height**=**"111.5"**/>**

**<subviews>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Date:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"4F2-yL-ghl"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"41"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Total:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"mhK-zZ-yRg"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"45.5"width**=**"42"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Buyer:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"OP0-vd-OuY"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"91"width**=**"49"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**</stackView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"spacing**=**"15"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"V6i-Mv-Ce7"userLabel**=**"ValueStackView"**>**

**<rect** key**=**"frame"x**=**"330"y**=**"95"width**=**"25"height**=**"120"**/>**

**<subviews>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"LFJ-wz-NhQ"userLabel**=**"DateTextField"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"25"height**=**"30"**/>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"z7L-Wt-Ji6"userLabel**=**"TotalTextField"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"45"width**=**"25"height**=**"30"**/>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"khI-7C-Hy2"userLabel**=**"BuyerTextField"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"90"width**=**"25"height**=**"30"**/>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**</subviews>**

**</stackView>**

**<tableView** clipsSubviews**=**"YES"contentMode**=**"scaleToFill"alwaysBounceVertical**=**"YES"dataMode**=**"prototypes"style**=**"plain"separatorStyle**=**"default"rowHeight**=**"80"estimatedRowHeight**=**"-1"sectionHeaderHeight**=**"28"sectionFooterHeight**=**"28"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"0kE-Ds-5wD"userLabel**=**"LineItemsView"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"338.5"width**=**"375"height**=**"266.5"**/>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<prototypes>**

**<tableViewCell** clipsSubviews**=**"YES"contentMode**=**"scaleToFill"preservesSuperviewLayoutMargins**=**"YES"selectionStyle**=**"default"indentationWidth**=**"10"reuseIdentifier**=**"LineItemsCell"rowHeight**=**"80"id**=**"HbF-ef-h6q"userLabel**=**"LineItemsCell"customClass**=**"LineItemsCell"customModule**=**"CS\_IA"customModuleProvider**=**"target"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"28"width**=**"375"height**=**"80"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**<tableViewCellContentView** key**=**"contentView"opaque**=**"NO"clipsSubviews**=**"YES"multipleTouchEnabled**=**"YES"contentMode**=**"center"preservesSuperviewLayoutMargins**=**"YES"insetsLayoutMarginsFromSafeArea**=**"NO"tableViewCell**=**"HbF-ef-h6q"id**=**"YfK-v2-aHc"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"79.5"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**<subviews>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"hNU-Fp-Dj9"userLabel**=**"ItemTextField"**>**

**<rect** key**=**"frame"x**=**"15"y**=**"25"width**=**"205"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"205"id**=**"pSp-D1-Jnv"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"hnA-zl-2SY"userLabel**=**"QtyTextField"**>**

**<rect** key**=**"frame"x**=**"335"y**=**"25"width**=**"25"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"25"id**=**"XAi-Ik-c73"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"R3j-0q-z9C"userLabel**=**"PriceTextField"**>**

**<rect** key**=**"frame"x**=**"240"y**=**"25"width**=**"75"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"75"id**=**"BXT-KQ-rFY"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**</subviews>**

**<constraints>**

**<constraint** firstItem**=**"hnA-zl-2SY"firstAttribute**=**"leading"secondItem**=**"R3j-0q-z9C"secondAttribute**=**"trailing"constant**=**"20"id**=**"3wC-Mh-Y1o"**/>**

**<constraint** firstAttribute**=**"trailingMargin"secondItem**=**"hnA-zl-2SY"secondAttribute**=**"trailing"id**=**"Kir-sF-rsA"**/>**

**<constraint** firstItem**=**"R3j-0q-z9C"firstAttribute**=**"centerY"secondItem**=**"YfK-v2-aHc"secondAttribute**=**"centerY"id**=**"OPP-LG-EOJ"**/>**

**<constraint** firstItem**=**"R3j-0q-z9C"firstAttribute**=**"leading"secondItem**=**"hNU-Fp-Dj9"secondAttribute**=**"trailing"constant**=**"20"id**=**"YWh-1S-QkV"**/>**

**<constraint** firstItem**=**"hNU-Fp-Dj9"firstAttribute**=**"leading"secondItem**=**"YfK-v2-aHc"secondAttribute**=**"leadingMargin"id**=**"h3A-l4-8S6"**/>**

**<constraint** firstItem**=**"hNU-Fp-Dj9"firstAttribute**=**"centerY"secondItem**=**"YfK-v2-aHc"secondAttribute**=**"centerY"id**=**"hMZ-cs-JMy"**/>**

**<constraint** firstItem**=**"hnA-zl-2SY"firstAttribute**=**"centerY"secondItem**=**"YfK-v2-aHc"secondAttribute**=**"centerY"id**=**"rfZ-eM-Ioy"**/>**

**</constraints>**

**</tableViewCellContentView>**

**<connections>**

**<outlet** property**=**"itemTextField"destination**=**"hNU-Fp-Dj9"id**=**"uRM-VY-ilt"**/>**

**<outlet** property**=**"priceTextField"destination**=**"R3j-0q-z9C"id**=**"PEc-Xe-A9r"**/>**

**<outlet** property**=**"qtyTextField"destination**=**"hnA-zl-2SY"id**=**"c3d-fc-LrX"**/>**

**</connections>**

**</tableViewCell>**

**</prototypes>**

**</tableView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"spacing**=**"19"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"wIy-2r-lro"userLabel**=**"AddingLineItemStackView"**>**

**<rect** key**=**"frame"x**=**"20"y**=**"621"width**=**"335"height**=**"30"**/>**

**<subviews>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"placeholder**=**"Item Name"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"aSI-Mt-ktz"userLabel**=**"AddingItemTextField"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"150"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"150"id**=**"xC9-tj-frN"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"placeholder**=**"Price"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"gvA-bw-qRz"userLabel**=**"AddingPriceTextField"**>**

**<rect** key**=**"frame"x**=**"169"y**=**"0.0"width**=**"75"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"75"id**=**"VyP-09-eFI"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<textField** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"left"contentVerticalAlignment**=**"center"borderStyle**=**"roundedRect"placeholder**=**"Qty"textAlignment**=**"natural"adjustsFontForContentSizeCategory**=**"YES"minimumFontSize**=**"17"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"GyV-eQ-Jby"userLabel**=**"AddingQtyTextField"**>**

**<rect** key**=**"frame"x**=**"263"y**=**"0.0"width**=**"25"height**=**"30"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"25"id**=**"3D1-v7-f4S"**/>**

**</constraints>**

**<nil** key**=**"textColor"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"14"**/>**

**<textInputTraits** key**=**"textInputTraits"**/>**

**</textField>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"15P-Tm-wgu"userLabel**=**"AddLineItemButton"**>**

**<rect** key**=**"frame"x**=**"307"y**=**"0.0"width**=**"28"height**=**"30"**/>**

**<state** key**=**"normal"image**=**"Plus Button"**/>**

**<connections>**

**<action** selector**=**"AddLineItem:"destination**=**"X7D-LD-9qn"eventType**=**"touchUpInside"id**=**"mdg-rt-Cbd"**/>**

**</connections>**

**</button>**

**</subviews>**

**</stackView>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"Xlh-Ho-fSF"userLabel**=**"VerifyReceiptButton"**>**

**<rect** key**=**"frame"x**=**"330"y**=**"40"width**=**"35"height**=**"35"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"height"constant**=**"35"id**=**"5b3-DQ-Fsr"**/>**

**<constraint** firstAttribute**=**"width"constant**=**"35"id**=**"Lzq-nY-3fd"**/>**

**</constraints>**

**<state** key**=**"normal"image**=**"Verify Button"**/>**

**<connections>**

**<action** selector**=**"verifyReceiptTapped:"destination**=**"X7D-LD-9qn"eventType**=**"touchUpInside"id**=**"RkV-bJ-RU6"**/>**

**</connections>**

**</button>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Duplicate Receipt"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"Fv9-IA-Te3"userLabel**=**"DuplicateReceiptLabel"**>**

**<rect** key**=**"frame"x**=**"107.5"y**=**"30"width**=**"160.5"height**=**"25.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"21"**/>**

**<color** key**=**"textColor"red**=**"1"green**=**"0.14913141730000001"blue**=**"0.0"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"sRGB"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<pickerView** contentMode**=**"scaleToFill"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"ZtK-Hb-KMB"userLabel**=**"CategoryPickerView"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"225"width**=**"375"height**=**"75"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"height"constant**=**"75"id**=**"Ei1-iM-HUf"**/>**

**</constraints>**

**</pickerView>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Items:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"89y-Hd-AQV"**>**

**<rect** key**=**"frame"x**=**"20"y**=**"310"width**=**"47"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<constraints>**

**<constraint** firstItem**=**"Xlh-Ho-fSF"firstAttribute**=**"leading"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"leading"constant**=**"330"id**=**"1lC-Hp-74T"**/>**

**<constraint** firstAttribute**=**"trailing"secondItem**=**"0kE-Ds-5wD"secondAttribute**=**"trailing"id**=**"564-5u-qFr"**/>**

**<constraint** firstItem**=**"0kE-Ds-5wD"firstAttribute**=**"leading"secondItem**=**"ZNo-ch-8AF"secondAttribute**=**"leading"id**=**"7Gl-jQ-qZy"**/>**

**<constraint** firstItem**=**"89y-Hd-AQV"firstAttribute**=**"leading"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"leading"constant**=**"20"id**=**"9ZE-Ft-12Y"**/>**

**<constraint** firstItem**=**"Fv9-IA-Te3"firstAttribute**=**"top"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"top"constant**=**"10"id**=**"CvL-fj-X7L"**/>**

**<constraint** firstItem**=**"89y-Hd-AQV"firstAttribute**=**"top"secondItem**=**"ZtK-Hb-KMB"secondAttribute**=**"bottom"constant**=**"10"id**=**"EyS-W2-6Mr"**/>**

**<constraint** firstItem**=**"Xlh-Ho-fSF"firstAttribute**=**"top"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"top"constant**=**"20"id**=**"Lod-Z4-ce8"**/>**

**<constraint** firstItem**=**"dyP-1F-hnB"firstAttribute**=**"leading"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"leading"constant**=**"20"id**=**"O32-IW-sUC"**/>**

**<constraint** firstItem**=**"wuH-Lm-lrp"firstAttribute**=**"bottom"secondItem**=**"wIy-2r-lro"secondAttribute**=**"bottom"constant**=**"16"id**=**"Rwx-VV-EaW"**/>**

**<constraint** firstItem**=**"wIy-2r-lro"firstAttribute**=**"top"secondItem**=**"0kE-Ds-5wD"secondAttribute**=**"bottom"constant**=**"16"id**=**"Sy8-BD-SpE"**/>**

**<constraint** firstItem**=**"wuH-Lm-lrp"firstAttribute**=**"trailing"secondItem**=**"89y-Hd-AQV"secondAttribute**=**"trailing"constant**=**"308"id**=**"UIA-ae-Wo7"**/>**

**<constraint** firstItem**=**"ZtK-Hb-KMB"firstAttribute**=**"trailing"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"trailing"id**=**"UIK-hP-8tQ"**/>**

**<constraint** firstItem**=**"Fv9-IA-Te3"firstAttribute**=**"centerX"secondItem**=**"ZNo-ch-8AF"secondAttribute**=**"centerX"id**=**"Ur3-Ng-6hs"**/>**

**<constraint** firstItem**=**"dyP-1F-hnB"firstAttribute**=**"top"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"top"constant**=**"75"id**=**"dxM-ef-pG7"**/>**

**<constraint** firstItem**=**"V6i-Mv-Ce7"firstAttribute**=**"top"secondItem**=**"Xlh-Ho-fSF"secondAttribute**=**"bottom"constant**=**"20"id**=**"fPJ-Vd-DOu"**/>**

**<constraint** firstItem**=**"wuH-Lm-lrp"firstAttribute**=**"trailing"secondItem**=**"V6i-Mv-Ce7"secondAttribute**=**"trailing"constant**=**"20"id**=**"fPX-fY-CA8"**/>**

**<constraint** firstItem**=**"wIy-2r-lro"firstAttribute**=**"centerX"secondItem**=**"ZNo-ch-8AF"secondAttribute**=**"centerX"id**=**"hdZ-D2-fLh"**/>**

**<constraint** firstItem**=**"wuH-Lm-lrp"firstAttribute**=**"trailing"secondItem**=**"Xlh-Ho-fSF"secondAttribute**=**"trailing"constant**=**"10"id**=**"iGV-Dz-hCD"**/>**

**<constraint** firstItem**=**"ZtK-Hb-KMB"firstAttribute**=**"leading"secondItem**=**"wuH-Lm-lrp"secondAttribute**=**"leading"id**=**"nYQ-TM-1Rf"**/>**

**<constraint** firstItem**=**"0kE-Ds-5wD"firstAttribute**=**"top"secondItem**=**"89y-Hd-AQV"secondAttribute**=**"bottom"constant**=**"8"id**=**"vgU-SH-gWQ"**/>**

**<constraint** firstItem**=**"ZtK-Hb-KMB"firstAttribute**=**"top"secondItem**=**"V6i-Mv-Ce7"secondAttribute**=**"bottom"constant**=**"10"id**=**"zqR-pt-Ejh"**/>**

**</constraints>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"wuH-Lm-lrp"**/>**

**</view>**

**<connections>**

**<outlet** property**=**"addingItemTextField"destination**=**"aSI-Mt-ktz"id**=**"NZ0-GO-kMo"**/>**

**<outlet** property**=**"addingPriceTextField"destination**=**"gvA-bw-qRz"id**=**"UUH-Bc-oTJ"**/>**

**<outlet** property**=**"addingQtyTextField"destination**=**"GyV-eQ-Jby"id**=**"fmx-Kv-kAT"**/>**

**<outlet** property**=**"buyerTextField"destination**=**"khI-7C-Hy2"id**=**"Ieg-hN-2Bq"**/>**

**<outlet** property**=**"categoryPickerView"destination**=**"ZtK-Hb-KMB"id**=**"zEr-Ti-xaX"**/>**

**<outlet** property**=**"dateTextField"destination**=**"LFJ-wz-NhQ"id**=**"yPp-mZ-igU"**/>**

**<outlet** property**=**"duplicateReceiptLabel"destination**=**"Fv9-IA-Te3"id**=**"E1H-04-UTh"**/>**

**<outlet** property**=**"lineItemsView"destination**=**"0kE-Ds-5wD"id**=**"Z0U-VE-kdH"**/>**

**<outlet** property**=**"totalTextField"destination**=**"z7L-Wt-Ji6"id**=**"2S1-g7-DKv"**/>**

**<outlet** property**=**"verifyReceiptButton"destination**=**"Xlh-Ho-fSF"id**=**"22H-aY-8cN"**/>**

**</connections>**

**</viewController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"PMv-l8-nOi"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"5815.1999999999998"y**=**"1101.4992503748126"**/>**

**</scene>**

<!--Main Tab Controller-->

**<scene** sceneID**=**"gmB-0Q-Awd"**>**

**<objects>**

**<tabBarController** storyboardIdentifier**=**"MainTabController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"Oro-6m-1lk"customClass**=**"MainTabController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<tabBar** key**=**"tabBar"contentMode**=**"scaleToFill"insetsLayoutMarginsFromSafeArea**=**"NO"id**=**"UaE-Bl-TDd"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"414"height**=**"49"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**<color** key**=**"backgroundColor"white**=**"0.0"alpha**=**"0.0"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**</tabBar>**

**<connections>**

**<segue** destination**=**"B4G-5c-TqK"kind**=**"relationship"relationship**=**"viewControllers"id**=**"9qs-LS-2NS"**/>**

**<segue** destination**=**"LLK-j0-85g"kind**=**"relationship"relationship**=**"viewControllers"id**=**"wft-Ja-oqo"**/>**

**<segue** destination**=**"5pV-e7-z44"kind**=**"relationship"relationship**=**"viewControllers"id**=**"bpD-vE-RgT"**/>**

**</connections>**

**</tabBarController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"cc6-RV-NXD"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"954"y**=**"90"**/>**

**</scene>**

<!--Expenditure-->

**<scene** sceneID**=**"GE2-aB-8NL"**>**

**<objects>**

**<navigationController** automaticallyAdjustsScrollViewInsets**=**"NO"id**=**"B4G-5c-TqK"sceneMemberID**=**"viewController"**>**

**<tabBarItem** key**=**"tabBarItem"title**=**"Expenditure"image**=**"Totals Tab Controller Image"id**=**"leQ-pI-5X2"**/>**

**<toolbarItems/>**

**<navigationBar** key**=**"navigationBar"contentMode**=**"scaleToFill"insetsLayoutMarginsFromSafeArea**=**"NO"id**=**"Fso-66-Toj"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"20"width**=**"375"height**=**"44"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**</navigationBar>**

**<nil** name**=**"viewControllers"**/>**

**<connections>**

**<segue** destination**=**"0wA-vP-5Mu"kind**=**"relationship"relationship**=**"rootViewController"id**=**"7vC-zk-Ie2"**/>**

**</connections>**

**</navigationController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"y7i-iT-VC9"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"1842.0289855072465"y**=**"-231.02678571428569"**/>**

**</scene>**

<!--Expenditure View Controller-->

**<scene** sceneID**=**"g4b-DD-rHA"**>**

**<objects>**

**<viewController** storyboardIdentifier**=**"ExpenditureViewController"useStoryboardIdentifierAsRestorationIdentifier**=**"YES"id**=**"0wA-vP-5Mu"userLabel**=**"Expenditure View Controller"customClass**=**"ExpenditureViewController"customModule**=**"CS\_IA"customModuleProvider**=**"target"sceneMemberID**=**"viewController"**>**

**<view** key**=**"view"contentMode**=**"scaleToFill"id**=**"Gsn-lP-84T"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"375"height**=**"667"**/>**

**<autoresizingMask** key**=**"autoresizingMask"widthSizable**=**"YES"heightSizable**=**"YES"**/>**

**<subviews>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"spacing**=**"77"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"FKg-PI-3Im"**>**

**<rect** key**=**"frame"x**=**"22.5"y**=**"182"width**=**"330.5"height**=**"303"**/>**

**<subviews>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"alignment**=**"top"spacing**=**"36"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"fYO-gY-4V6"userLabel**=**"ExpenditureLabelsSV"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"192.5"height**=**"303"**/>**

**<subviews>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"text**=**"Total:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"CmE-hj-wdJ"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"42"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Groceries:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"MLW-w5-Hab"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"56.5"width**=**"79"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Lifestyle:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"hSC-LG-zzY"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"113"width**=**"69"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Personal &amp; Discretionary:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"qDK-ra-vBV"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"169.5"width**=**"192.5"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Transportation:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"ifU-1D-kht"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"226"width**=**"117"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Miscellaneous:"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"gXh-VQ-SmK"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"282.5"width**=**"113.5"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**</stackView>**

**<stackView** opaque**=**"NO"contentMode**=**"scaleToFill"axis**=**"vertical"spacing**=**"36"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"cuG-c2-0l6"userLabel**=**"ExpenditureSV"**>**

**<rect** key**=**"frame"x**=**"269.5"y**=**"0.0"width**=**"61"height**=**"303"**/>**

**<subviews>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"nYN-MK-WOj"userLabel**=**"TotalExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"0.0"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"bpy-PG-edu"userLabel**=**"GroceriesExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"56.5"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"aAv-6i-6qd"userLabel**=**"LifestyleExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"113"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"v52-6e-C5r"userLabel**=**"PersonalExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"169.5"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"251"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"OKZ-7J-2aE"userLabel**=**"TransportExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"226"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**<label** opaque**=**"NO"userInteractionEnabled**=**"NO"contentMode**=**"left"horizontalHuggingPriority**=**"251"verticalHuggingPriority**=**"252"text**=**"Loading"textAlignment**=**"natural"lineBreakMode**=**"tailTruncation"baselineAdjustment**=**"alignBaselines"adjustsFontSizeToFit**=**"NO"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"CEm-lB-dNa"userLabel**=**"MiscellaneousExpenditure"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"282.5"width**=**"61"height**=**"20.5"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"17"**/>**

**<nil** key**=**"textColor"**/>**

**<nil** key**=**"highlightedColor"**/>**

**</label>**

**</subviews>**

**</stackView>**

**</subviews>**

**</stackView>**

**<pickerView** contentMode**=**"scaleToFill"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"zCy-gm-1Gm"userLabel**=**"MonthPickerView"**>**

**<rect** key**=**"frame"x**=**"-0.5"y**=**"84"width**=**"376"height**=**"75"**/>**

**<constraints>**

**<constraint** firstAttribute**=**"width"constant**=**"376"id**=**"XsG-5H-NVz"**/>**

**<constraint** firstAttribute**=**"height"constant**=**"75"id**=**"ePa-D2-u1B"**/>**

**</constraints>**

**</pickerView>**

**<button** opaque**=**"NO"contentMode**=**"scaleToFill"contentHorizontalAlignment**=**"center"contentVerticalAlignment**=**"center"buttonType**=**"roundedRect"lineBreakMode**=**"middleTruncation"translatesAutoresizingMaskIntoConstraints**=**"NO"id**=**"X3Q-iT-aNX"**>**

**<rect** key**=**"frame"x**=**"75.5"y**=**"550"width**=**"224"height**=**"48"**/>**

**<fontDescription** key**=**"fontDescription"type**=**"system"pointSize**=**"30"**/>**

**<state** key**=**"normal"title**=**"View Expenditure"**/>**

**<connections>**

**<action** selector**=**"viewExpenditureTapped:"destination**=**"0wA-vP-5Mu"eventType**=**"touchUpInside"id**=**"kgj-UQ-oKB"**/>**

**</connections>**

**</button>**

**</subviews>**

**<color** key**=**"backgroundColor"white**=**"1"alpha**=**"1"colorSpace**=**"custom"customColorSpace**=**"genericGamma22GrayColorSpace"**/>**

**<constraints>**

**<constraint** firstItem**=**"FKg-PI-3Im"firstAttribute**=**"centerX"secondItem**=**"Gsn-lP-84T"secondAttribute**=**"centerX"id**=**"Ckz-pz-Kop"**/>**

**<constraint** firstItem**=**"zCy-gm-1Gm"firstAttribute**=**"top"secondItem**=**"YPy-zk-by1"secondAttribute**=**"top"constant**=**"20"id**=**"FwI-l1-O4G"**/>**

**<constraint** firstItem**=**"X3Q-iT-aNX"firstAttribute**=**"top"secondItem**=**"FKg-PI-3Im"secondAttribute**=**"bottom"constant**=**"65"id**=**"Xle-FA-jQe"**/>**

**<constraint** firstItem**=**"FKg-PI-3Im"firstAttribute**=**"centerY"secondItem**=**"Gsn-lP-84T"secondAttribute**=**"centerY"id**=**"bjU-Yi-k8y"**/>**

**<constraint** firstItem**=**"X3Q-iT-aNX"firstAttribute**=**"centerX"secondItem**=**"Gsn-lP-84T"secondAttribute**=**"centerX"id**=**"neV-vT-iaQ"**/>**

**<constraint** firstItem**=**"zCy-gm-1Gm"firstAttribute**=**"centerX"secondItem**=**"Gsn-lP-84T"secondAttribute**=**"centerX"id**=**"rhN-uv-ldR"**/>**

**</constraints>**

**<viewLayoutGuide** key**=**"safeArea"id**=**"YPy-zk-by1"**/>**

**</view>**

**<navigationItem** key**=**"navigationItem"id**=**"XHT-du-Kvv"**/>**

**<connections>**

**<outlet** property**=**"groceryExpenditureLabel"destination**=**"bpy-PG-edu"id**=**"rTP-Z7-Vp1"**/>**

**<outlet** property**=**"lifestyleExpenditureLabel"destination**=**"aAv-6i-6qd"id**=**"uEI-y9-jac"**/>**

**<outlet** property**=**"miscExpenditureLabel"destination**=**"CEm-lB-dNa"id**=**"rZt-ls-m33"**/>**

**<outlet** property**=**"monthPickerView"destination**=**"zCy-gm-1Gm"id**=**"fwA-Ko-q1n"**/>**

**<outlet** property**=**"personalExpenditureLabel"destination**=**"v52-6e-C5r"id**=**"aBi-yg-Xoo"**/>**

**<outlet** property**=**"totalExpenditureLabel"destination**=**"nYN-MK-WOj"id**=**"gW4-OW-hVX"**/>**

**<outlet** property**=**"transportExpenditureLabel"destination**=**"OKZ-7J-2aE"id**=**"a5k-Fo-fcc"**/>**

**</connections>**

**</viewController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"hZu-wf-vb3"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"2748"y**=**"-224.4377811094453"**/>**

**</scene>**

<!--Photo-->

**<scene** sceneID**=**"gbP-fV-8D6"**>**

**<objects>**

**<navigationController** automaticallyAdjustsScrollViewInsets**=**"NO"id**=**"LLK-j0-85g"sceneMemberID**=**"viewController"**>**

**<tabBarItem** key**=**"tabBarItem"title**=**"Photo"image**=**"Photo Tab Controller Image"id**=**"epS-MA-Mza"userLabel**=**"Photo"**/>**

**<toolbarItems/>**

**<navigationBar** key**=**"navigationBar"contentMode**=**"scaleToFill"insetsLayoutMarginsFromSafeArea**=**"NO"id**=**"0yZ-z6-dzG"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"20"width**=**"375"height**=**"44"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**</navigationBar>**

**<nil** name**=**"viewControllers"**/>**

**<connections>**

**<segue** destination**=**"ief-C1-gAl"kind**=**"relationship"relationship**=**"rootViewController"id**=**"UPM-qg-9hi"**/>**

**</connections>**

**</navigationController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"FYj-eK-m3r"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"4149.6000000000004"y**=**"1102.3988005997003"**/>**

**</scene>**

<!--Manage-->

**<scene** sceneID**=**"6xs-rd-ujB"**>**

**<objects>**

**<navigationController** automaticallyAdjustsScrollViewInsets**=**"NO"id**=**"5pV-e7-z44"sceneMemberID**=**"viewController"**>**

**<tabBarItem** key**=**"tabBarItem"title**=**"Manage"image**=**"Manage Tab Controller Image"id**=**"M77-i8-ekh"**/>**

**<toolbarItems/>**

**<navigationBar** key**=**"navigationBar"contentMode**=**"scaleToFill"insetsLayoutMarginsFromSafeArea**=**"NO"id**=**"rAm-Xu-gUx"**>**

**<rect** key**=**"frame"x**=**"0.0"y**=**"20"width**=**"375"height**=**"44"**/>**

**<autoresizingMask** key**=**"autoresizingMask"**/>**

**</navigationBar>**

**<nil** name**=**"viewControllers"**/>**

**<connections>**

**<segue** destination**=**"P8N-0w-nw2"kind**=**"relationship"relationship**=**"rootViewController"id**=**"Rrn-1c-jIU"**/>**

**</connections>**

**</navigationController>**

**<placeholder** placeholderIdentifier**=**"IBFirstResponder"id**=**"zfn-iY-e0d"userLabel**=**"First Responder"sceneMemberID**=**"firstResponder"**/>**

**</objects>**

**<point** key**=**"canvasLocation"x**=**"1768.8"y**=**"1192.3538230884558"**/>**

**</scene>**

**</scenes>**

**<resources>**

**<image** name**=**"Manage Tab Controller Image"width**=**"28"height**=**"28"**/>**

**<image** name**=**"Photo Tab Controller Image"width**=**"28"height**=**"28"**/>**

**<image** name**=**"Plus Button"width**=**"28"height**=**"28"**/>**

**<image** name**=**"Totals Tab Controller Image"width**=**"28"height**=**"28"**/>**

**<image** name**=**"Verify Button"width**=**"57"height**=**"57"**/>**

**</resources>**

**</document>**