JUGAAD s.r.l. unipersonale
RadaeePDF global services

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

RadaeePDF SDK Master for iOS - v 1.x

How to build my first application

Document version: 1.0
Document date: 08/Apr/2021
Author: K.Z.

Reference SDK: RadaeePDF for iOS 4.4.1

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

How to include RadaeePDF SDK in your project

Create a folder in your project called “PDFViewer”.

Copy these folders and files from demo’s PDFViewer folder into your new PDFViewer folder with:

- `PDFLayout`
- `PDFLib` (without ios(sign) folder if present)
- `PDFPages`
- `PDFReader`
- `PDFRes`
- `PDFView`
- `DOCXLayout`
- `DOCXReader`
- `ASIHttpRequest`
- `RDMenu.h`
- `RDMenu.m`
- `RDPlugin`
- `RDSignature`
- `RDTreeTableViewController`
- `UILElement.h`
- `UILElement.m`
- `UILShadowView.h`
- `UILShadowView.m`
- `UINavigationController+autoRotate.h`
- `UINavigationController+autoRotate.m`

Drag your PDFViewer folder with the “Create groups” option selected **except PDFRes folder**.
Drag PDFRes folder into your project with “Create folder references” option.

Delete if present in PDFViewer/PDFLib:

- `PDFObjc.1.h`
- `PDFObjc.1.m`

Delete if present in PDFViewer

- `main.m`

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

Add these lines in your prefix.pch file:

```
#ifdef __OBJC__
   #import <UIKit/UIKit.h>
   #import <Foundation/Foundation.h>
   #import "UINavigationController+autoRotate.h"
#endif
#import "RDUtils.h"
```

If you don't have any prefix.pch file in your project you could copy PDFViewer-Prefix.pch from Radaee demo project in your project folder and set its path as prefix header in Build Setting/Prefix Header.

In Build Phases/Link Binary With Libraries:

- Add QuartzCore framework
- Add CoreGraphics framework
- Add libc++ lib
- Add libRDPDFLib.a (if it isn't already added)

Add `-fno-objc-arc` to the following files in Build Phases/Compile Sources:

- ASIInputStream.m
- ASIDownloadCache.m
- ASIDataDecompressor.m
- ASIFormDataRequest.m
- ASIHTTPRequest.m
- ASIAuthenticationDialog.m
- ASINetworkQueue.m
- ASIDataCompressor.m
- Reachability.m

Add `-lz` and `-lstdc++` in Other Linker Flags of Build Settings tab

The building process may throw an error while building the project for iOS Simulator and linking in object file built for ARM64 architecture iOS, for architecture arm64:

- Add arm64 in Build Settings/excluded Architectures debug.

In General/Bundle Identifier replace your Bundle Identifier with "com.radaee.reader"

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

How to open your first PDF file

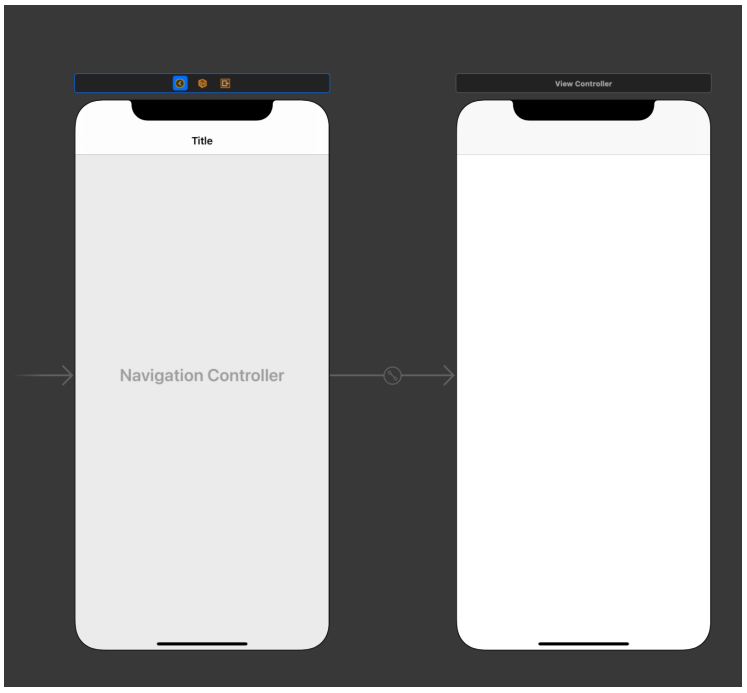
Import `RDVGlobal.h` in your `AppDelegate.h`

Add :

```
-       g_serial =
@"6E144148DADC533988DD903E71B804A179EAC7E5409AAE3FCCF4449F37FB9ADD7BDD4614AB573BFB33
A420BB39FA78E7";
-       [RDVGlobal Init];
```

in - (BOOL)application:(UIApplication *)application
didFinishLaunchingWithOptions:(NSDictionary *)launchOptions

Add a Navigation controller in Main.storyboard, delete the Root View Controller, put a root view controller segue from your Navigation Controller to your View Controller and apply “Is Initial View Controller” to the Navigation Controller.



Import PDFReaderCtrl.h and RDUtils.h in your ViewController.h and create NSMutableArray *m_files and PDFReaderCtrl *m_pdf:

```
#import <UIKit/UIKit.h>
#import "PDFReaderCtrl.h"
#import "RDUtils.h"
```

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

```
@interface ViewController : UIViewController
{
        NSMutableArray *m_files;
        PDFReaderCtrl *m_pdf;
}
```

Add these functions to your ViewController.m:

```
- (void)refreshDocuments
{
    NSArray *paths = NSSearchPathForDirectoriesInDomains(NSDocumentDirectory, NSUserDomainMask, YES);
    NSString *dpath = [paths objectAtIndex:0];
    NSFileManager *fm = [NSFileManager defaultManager];
    m_files = [[NSMutableArray alloc] init];
    [self addPDFs:dpath :@"" :fm :0];
    [self copyDocumentsFromAssets:dpath];
}

- (void)addPDFs:(NSString *)dpath :(NSString *)subdir :(NSFileManager *)fm :(int)level
{
    NSString *path = [dpath stringByAppendingFormat:@"/%@", subdir];
    NSDirectoryEnumerator *fenum = [fm enumeratorAtPath:path];
    NSString *fName;
    while(fName = [fenum nextObject])
    {
        BOOL dir;
        NSString *dst = [path stringByAppendingFormat:@"%@",fName];
        if( [fm fileExistsAtPath:dst isDirectory:&dir] )
        {
            if( dir )
            {
                [self addPDFs:dpath :dst :fm :level+1];
            }
            else if( [dst hasSuffix:@".pdf"] )
            {
                NSString *dis = [subdir stringByAppendingFormat:@"%@",fName];//display name
                RDFileItem *item = [[RDFileItem alloc] init:dis :dst :level];
                [m_files addObject:item];
            }
        }
```

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

```
    }
}

- (void)copyDocumentsFromAssets :(NSString *)dpath
{
    NSString *hf = [[NSBundle mainBundle] pathForResource:@"PDFRes" ofType:nil];
    for (NSString *fpath in [[NSFileManager defaultManager] contentsOfDirectoryAtPath:hf error:nil]) {
        if([fpath.pathExtension isEqualToString:@"pdf"] || [fpath.pathExtension isEqualToString:@"PDF"]) {
            NSString *documentPath = [hf stringByAppendingPathComponent:fpath];
            NSString *destPath = [dpath stringByAppendingPathComponent:fpath];
            if(![[NSFileManager defaultManager] fileExistsAtPath:destPath]) {
                [[NSFileManager defaultManager] copyItemAtPath:documentPath toPath:destPath error:nil];
                RDFileItem *item = [[RDFileItem alloc] init:[fpath stringByDeletingPathExtension] :destPath :0];
                [m_files addObject:item];
            }
        }
    }
}
- (void)pdf_open_path:(RDFileItem *)item :(NSString *)pswd
{
    //Open PDF file
    PDFDoc *doc = [[PDFDoc alloc] init];
    [item.locker lock];
    int result = [doc open:item.path :pswd];
    [item.locker unlock];
    if(result == 0)//succeeded
    {
        m_pdf = [[UIStoryboard storyboardWithName:@"PDFReaderCtrl" bundle:nil]
instantiateViewControllerWithIdentifier:@"rdpdfreader"];
        [m_pdf setDoc:doc];
        m_pdf.hidesBottomBarWhenPushed = YES;
        GLOBAL.g_pdf_name = [NSMutableString stringWithString:[item.path lastPathComponent]];
        [self.navigationController pushViewController:m_pdf animated:YES];
    }
    else if(result == 2)//require password
    {
        [self pdf_show_pwd_error:^(NSString *pwd) {
            [self pdf_open_path:item :pwd];
        }];
    }
    else//error
```

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

```
    {
        [self showOpenErrorAlertController];
    }
}

- (void)pdf_show_pwd_error:(void (^)(NSString *pwd))success
{
    NSString *title = NSLocalizedString(@"Please Enter PassWord", @"Localizable");
    UIAlertController *pwdAlert = [UIAlertController alertControllerWithTitle:title message:nil
preferredStyle:UIAlertControllerStyleAlert];
    [pwdAlert addTextFieldWithConfigurationHandler:^(UITextField *textField)
     {
         textField.placeholder = NSLocalizedString(@"PassWord", @"Localizable");
         textField.secureTextEntry = YES;
     }];
    UIAlertAction *okAction = [UIAlertAction actionWithTitle:NSLocalizedString(@"OK", @"Localizable")
style:UIAlertActionStyleDestructive handler:^(UIAlertAction * _Nonnull action) {
        UITextField *password = pwdAlert.textFields.firstObject;
        success(password.text);
    }];
    UIAlertAction *cancel = [UIAlertAction actionWithTitle:NSLocalizedString(@"Cancel", @"Localizable")
style:UIAlertActionStyleCancel handler:nil];

    [pwdAlert addAction:okAction];
    [pwdAlert addAction:cancel];
    [self presentViewController:pwdAlert animated:YES completion:nil];
}

- (void)showOpenErrorAlertController
{
    NSString *str1 = NSLocalizedString(@"Alert", @"Localizable");
    NSString *str2 = NSLocalizedString(@"Error Document,Can't open", @"Localizable");
    NSString *str3 = NSLocalizedString(@"OK", @"Localizable");
    UIAlertController* alert = [UIAlertController alertControllerWithTitle:str1 message:str2
preferredStyle:UIAlertControllerStyleAlert];
    UIAlertAction *okAction = [UIAlertAction actionWithTitle:str3 style:UIAlertActionStyleDefault handler:nil];
    [alert addAction:okAction];
    [self presentViewController:alert animated:YES completion:nil];
}
```

add :

Via Girondola, 37 - 42025 - Cavriago (RE)
Tel. +39 329 2225182 e-mail amministrazione@jugaad.digital
P.IVA 02905570350 - SDI M5UXCR1

```
[self refreshDocuments];
```

in `- (void)viewDidLoad`

Create a method to open a pdf:

```
-(void)openPDF
{
    for(int i = 0; i <[m_files count]; i++)
    {
        RDFileItem *item = [m_files objectAtIndex:i];
        NSString *fName = item.help;
        if([fName isEqualToString:@"test.pdf"])
        {
            [self pdf_open_path:item :nil];
        }
    }
}
```