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/*
**create by wangqi
*/
#import <LocalAuthentication/LocalAuthentication.h>

//指纹解锁
-(void)touchChage:(UISwitch *)sw
{
    if(sw.on == YES)
    {
        //0打开指纹验证
        if([UIDevice currentDevice].systemVersion.floatValue < 8.0)
        {
            //1
            UIAlertController * alert = [UIAlertController
            alertControllerWithTitle:@"提示" message:@"您的系统版本过低"
            preferredStyle:UIAlertControllerStyleAlert];
            [alert addAction:[UIAlertAction actionWithTitle:@"确定"
            style:UIAlertActionStyleDefault handler:^(UIAlertAction * _Nonnull action) {
                sw.on = NO;
            }]];
            [self presentViewController:alert animated:YES completion:nil];

            //1
        }
        else
        {
            //2版本适合
            LAContext * ctext = [[LAContext alloc] init];
            ctext.localizedFallbackTitle = @"“”"; //这个是去掉输入密码那个按钮，但是如果指纹验证失败三次 也会跳转到密码输入的界面，这是我们操作不了的
            ctext.maxBiometryFailures = @(2); //设置成两次
            if(![ctext
            canEvaluatePolicy:LAPolicyDeviceOwnerAuthenticationWithBiometrics
            error:NULL])
            {
                //3设备无指纹功能
                UIAlertController * alert = [UIAlertController
                alertControllerWithTitle:@"提示" message:@"您的设备不支持"
                preferredStyle:UIAlertControllerStyleAlert];
                [alert addAction:[UIAlertAction actionWithTitle:@"确定"
                style:UIAlertActionStyleDefault handler:^(UIAlertAction * _Nonnull action) {
                    dispatch_async(dispatch_get_main_queue(), ^{
                        sw.on = NO;
                    }]);
            }
            }
            [self presentViewController:alert animated:YES completion:nil];
        }
    }
}

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    }//3
    else
    {
        //支持
        [ccontext
evaluatePolicy:LAPolicyDeviceOwnerAuthenticationWithBiometrics
localizedReason:@"指纹解锁" reply:^(BOOL success, NSError * _Nullable error)
{
    if(success)
    {
        //5
        LockBackView * lockView = [LockBackView sharelock];
        lockView.strBool = NO;
        //将偏好设置存储
        NSUserDefaults * defaults = [NSUserDefaults
standardUserDefaults];
        [defaults setBool:YES forKey:@"touchBool"];
        [defaults setObject:@"touch" forKey:@"touchLock"];

    }//5
    else
    {
        //6指纹设置是在分线程进行的 所以开关的状态变化要放在主线程 否则
        会有延迟

        if(error.code == kLAErrorTouchIDNotAvailable)
        {
            //7
            dispatch_async(dispatch_get_main_queue(), ^{
                sw.on = NO;
                [[FFcbwClass managerFFcbw] ShowlabelAlert:@"未打开指
纹验证设置" withView:self.view];
            });

            //验证失败的error还有几个状态 可以点进去看 也可以从网上搜 很
            容易就懂得

        }else
        {
            dispatch_async(dispatch_get_main_queue(), ^{
                sw.on = NO;
                [[FFcbwClass managerFFcbw] ShowlabelAlert:@"需验证通过
才能操作" withView:self.view];
            });
            // NSLog(@"用户取消授权");
        }
    }
    else if (error.code == kLAErrorTouchIDLockout)
    {

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NSLog(@"被锁");
dispatch_async(dispatch_get_main_queue(), ^{
    sw.on = NO;
    [FFcbw ShowlabelAlert:@"指纹验证被锁" withView:self.view];
});
dispatch_async(dispatch_get_main_queue(), ^{
    [ccontext evaluatePolicy:LAPolicyDeviceOwnerAuthentication
localizedReason:@"需要输入密码才可开启TouchID" reply:^(BOOL success,
NSError * _Nullable error) {
        if(success)
        {
            //5
            [self touchChage:_touch];
            LockBackView * lockView = [LockBackView sharelock];
            lockView.strBool = NO;
            //将偏好设置存储
            NSUserDefaults * defaults = [NSUserDefaults
standardUserDefaults];

            [defaults setObject:_gloc.userid forKey:@"lockUserId"];
            [defaults setBool:YES forKey:@"touchBool"];
            [defaults setObject:@"touch" forKey:@"touchLock"];
            return ;
        }
        //5

        else
        {
            dispatch_async(dispatch_get_main_queue(), ^{
                sw.on = NO;
            });
        }
    }
});
}
else
{
    NSLog(@"未知错误");
    dispatch_async(dispatch_get_main_queue(), ^{
        sw.on = NO;
        [FFcbw ShowlabelAlert:@"验证未通过" withView:self.view];
    });
}
}
}
//6
};

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        }//4
    }//2

    }//0
    else
    {
        //关闭指纹验证
        LockBackView * lockView = [LockBackView sharelock]; //lockView是我自己
        加的蒙版 也就是说解锁失败了的话，就会出现一个蒙版 什么都操作不了 只有再次
        点击蒙版触发验证操作 如有其它什么好的方式 还请多多指教
        LAContext * ctext = [[LAContext alloc] init];
        ctext.localizedFallbackTitle = @"";
        ctext.maxBiometryFailures = @(2);
        //支持
        [ctest evaluatePolicy:LAPolicyDeviceOwnerAuthenticationWithBiometrics
        localizedReason:@"指纹解锁" reply:^(BOOL success, NSError * _Nullable error)
        {
            if(success)
            {
                if(lockView.strBool == YES)
                {
                    dispatch_async(dispatch_get_main_queue(), ^{
                        [lockView removeFromSuperview];
                    });
                    lockView.strBool = NO;
                }

                //将偏好设置存储
                NSUserDefaults * defaults = [NSUserDefaults standardUserDefaults];
                [defaults removeObjectForKey:@"touchBool"];
            }
            else
            {
                if (error.code == kLAErrorTouchIDLockout)
                {
                    //这个地方就是强制将其推到输入密码界面
                    dispatch_async(dispatch_get_main_queue(), ^{
                        [ctest evaluatePolicy:LAPolicyDeviceOwnerAuthentication
                        localizedReason:@"需要输入密码才可开启TouchID" reply:^(BOOL success,
                        NSError * _Nullable error) {
                            if(success)
                            {
                                }//5
                                if(lockView.strBool == YES)
                                {
                                    dispatch_async(dispatch_get_main_queue(), ^{
                                        [lockView removeFromSuperview];
                                    });
                                }
                            }
                        }
                    });
                }
            }
        }
    }

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        lockView.strBool = NO;
    }

    //将偏好设置存储
    NSUserDefaults * defaults = [NSUserDefaults
standardUserDefaults];
    [defaults removeObjectForKey:@"touchBool"];
    return ;

} //5

else
{
    dispatch_async(dispatch_get_main_queue(), ^{
        sw.on = YES;
    });
}

}];
});

}

else
{
    //关闭失败时 指纹验证失败 开关仍然要改成开启状态
    dispatch_async(dispatch_get_main_queue(), ^{
        [self.view addSubview:FFcbw.hud];
        [FFcbw ShowlabelAlert:@"验证通过才可操作" withView:self.view];
        sw.on = YES;
    });
}

}

}
}];
}

}
}

```