Project Scope of

KREDIT Key

(Native Android and iOS)

# Users Story

As a user, I want to be able to:

* The user need to register with KREDIT to get the QR code for enabling 2-step verification in using KREDIT System
* User scan QR code with **KREDIT Key** APP to get OTP code for using KREDIT System

As a Third Party:

* The third party is able to link to open **KREDIT Key** with their application or their website by URL Schemes

# Business Requirement Functionalities

The following sections are the key functionalities and deliverables KREDIT Key

|  |  |  |
| --- | --- | --- |
| ***No*** | | ***Explanation*** |
| 1 | Lunch Screes | * KREDIT Logo * Version label |
| 2 | Information Screen | Information Screen will be appearing when first-time startup app or OTP list view no data, information Screen the following key contents and elements:   * KREDIT Logo * View the information about how to use 2-step verification (With 2-step verification, whenever you sign in to your KREDIT account you will need your password and a code that this app will generate.) * Button to provide the user to start using the app by scan QR code screen |
| 3 | QR Code Scan Screen | This screen user is able to scan QR code and convert to OTP ULR standard text that provide by KREDIT. |
| 4 | TOTP Screen | This screen will be displays the following key contents and elements:   * View of OTP list by user account that have been register with KREDIT * User is able to delete and copy OTP * User is able to add to new |
| 5 | URL Schemes | KREDIT Key provide the URL schemes that are able to open KREDIT Key from other application or web site by calling URL schemes |
| 6 | Storing and Security | KREDIT Key will store the ciphertext of the **Secret Key** that issue by KREDIT in the local device using AES EBC PAKCS7PADDING. Moreover, the Secret key that receive from QR code is a ciphertext of the **Secret Key** of above encryption method. |

# Back-End & Responsibilities

* Back-end development using Java that provides the QR code to mobile generate 6 digit OTP code for validating with KREDIT System
* The QR Code provide in 3 important elements   
  otpauth://totp/KREDIT:A000000001?secret=P6DWRP7J43XNH5OBMM7MJ3PJ5T3QAI3B&issuer=KREDIT
  + **Secret Key**
  + Issuer
  + KREDIT
* **Secret Key** is the most important element to generate OTP code, to hide from the third person before **Secret Key** is encrypted with AES EBC PAKCS7PADDING and provide the ciphertext in QR form to mobile