

World's First Blockchain-based
COVID-19 Vaccination Verification System



User Manual



About COOV

Complete Privacy Protection

COOV perfectly protects users' privacy by utilizing the blockchain technology to provide immutable digital credentials and to verify them without a traceable server.

Cross-Verification of Digital Credentials

Users can present their digital credentials to interested parties, and also verify someone else's credentials by scanning their QR code.

Multi-purpose Credential Verification

Aside from their COVID-19 vaccination credentials, users can also provide additional information (name, date of birth, nationality, passport number, photo, etc.) to interested parties.

National Vaccination Credential System

In addition to providing vaccination credentials for COVID-19, COOV can also provide vaccination credentials for all vaccines received.

Available for governments & organizations around the world

PASS-INFRA, the global vaccination verification and management solution that COOV is based on, is available for governments and institutions around the world to use for free. Because of PASS-INFRA's international compatibility, COOV users' COVID-19 vaccination credentials can be verified in other countries as well.

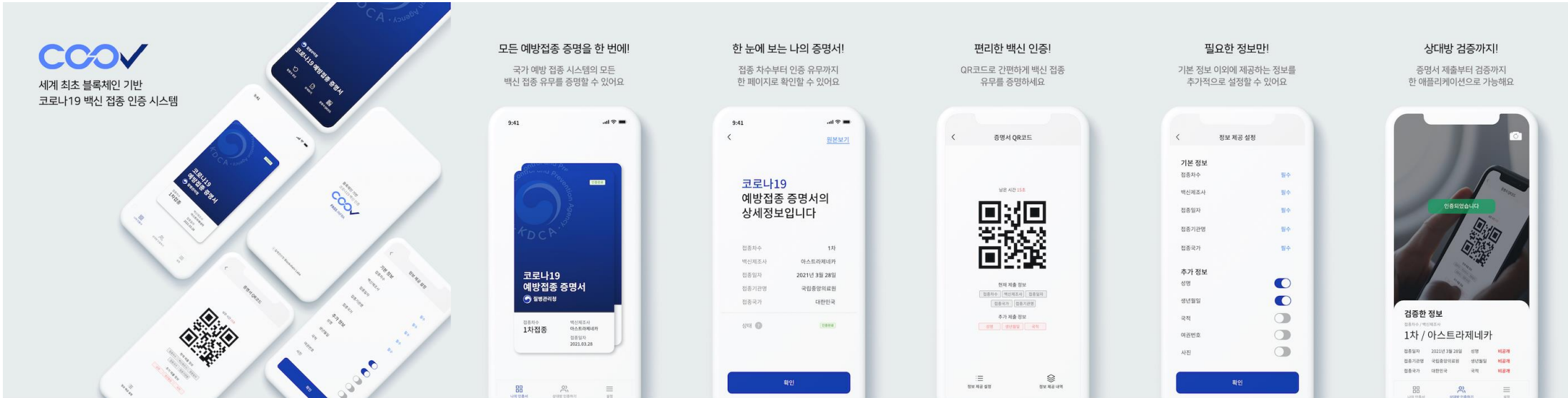
COOV App Scenario

1. COOV App Download
2. User Consent Prior to Credential Issuance
3. Credential Issuance Process
4. Credential Presentation Process
5. Credential Verification Process
6. App Settings

COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > Settings

COOV app can be downloaded from Google Play Store or Apple App Store.



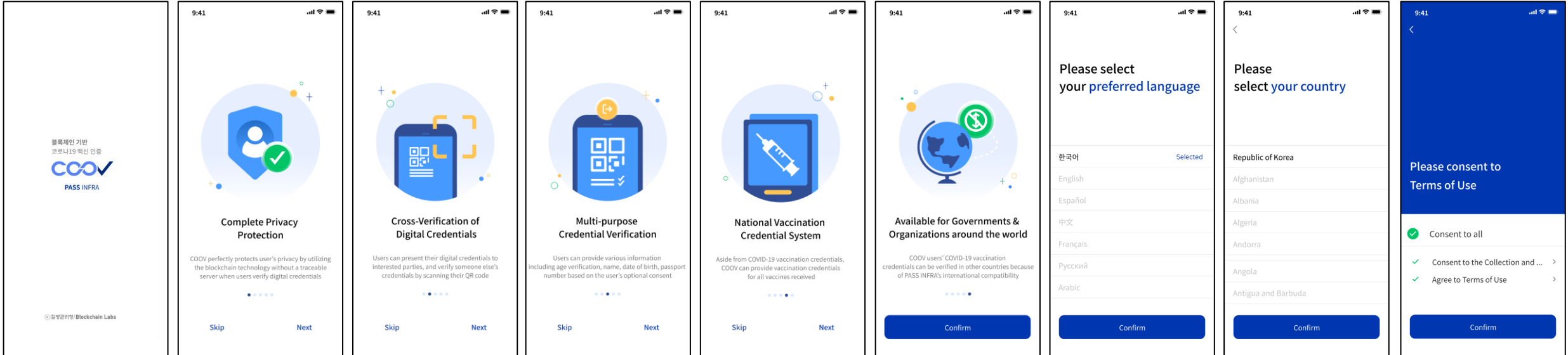
1. Open Play Store (for Android) or App Store (for iOS).
2. Search for 'COOV'.
3. Select 'Install'.
4. COOV app installation complete.

COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > Settings

In this first step of using COOV, you can read about COOV's features.

You must select your preferred language and region, and also provide consent to personal data collection & terms of use, to start using COOV app.



This is the first page after launching COOV app.

There are 5 descriptions about COOV. Pressing 'Next' will show the next characteristic description, and pressing 'Skip' will show the language selection screen.

You can select a language to use in the app. After selecting your preferred language, press 'Confirm' to go to the next step.

*Korean and English are offered first, and more languages will be added with future updates.

You can select the country that you are in. After selecting a country, press 'Confirm' to go to the next step.

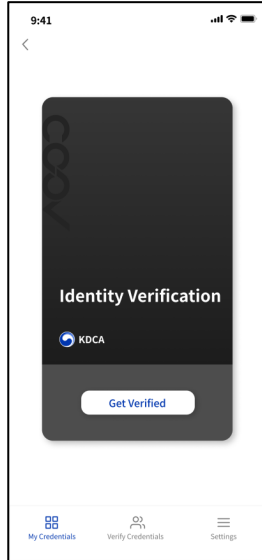
You can press the arrows on the right side of each consent form to review the details. Pressing 'Consent to All' and then 'Confirm' will go to the next screen for identity verification.

COOV Application Scenario

Download > User Consent (Pre-Issuance) > **Issuance** > Presentation > Verification > Settings

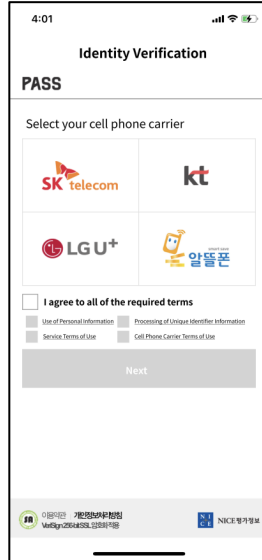
By using the self verification service provided by your cell phone carrier (PASS or SMS verification), you can successfully verify your identity and receive your identity credential upon the completion of the verification.

In order to use PASS for your verification, you must have PASS app downloaded on your device. SMS verification can be done without PASS app.

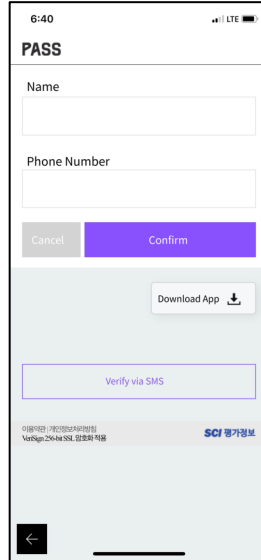


This screen is to start your identity verification. Pressing the 'Get Verified' button on the card will take you to the identity verification step.

Even without getting your identity verified, you can still use 'Verify Credentials' and 'Settings' features.



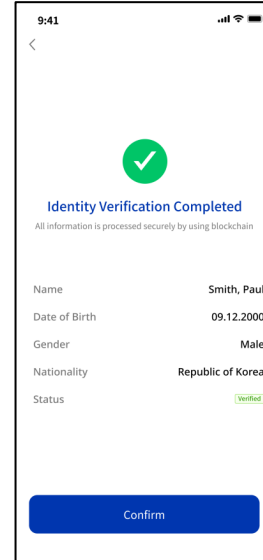
You must select your cell phone carrier and provide consent to the terms of use, in order to proceed. After the selections, press 'Next' to proceed to the next step.



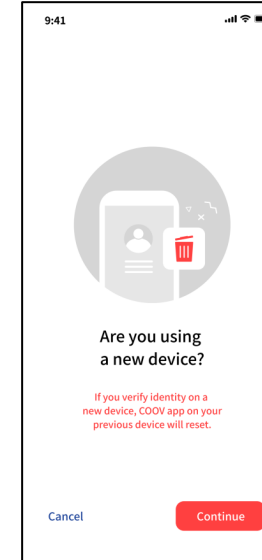
If you already have the carrier's PASS app installed on your device, pressing 'Confirm' after entering your name and phone number will automatically verify your identity by using PASS app. If you don't have PASS app installed, you can press 'Verify via SMS' button.



To verify your identity without PASS app, enter your name, first 7 digits of your SSN, your phone number, and the security text, and then press 'Confirm'. After receiving your verification code, enter the code and press 'Confirm' again.



After successfully verifying your identity, press 'Confirm' to complete the verification.



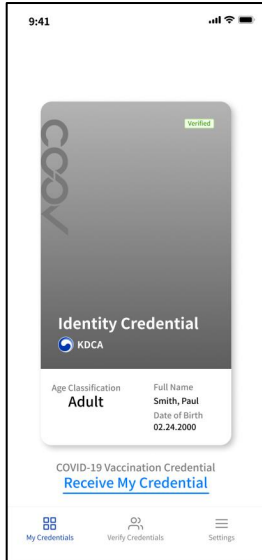
If you have already verified your identity on another device

If you have previously downloaded COOV app and completed your identity verification on another device, you will receive "Are you using a new device?" message. Pressing 'Continue' button will complete the identity verification process and automatically resets COOV app installed on another device.

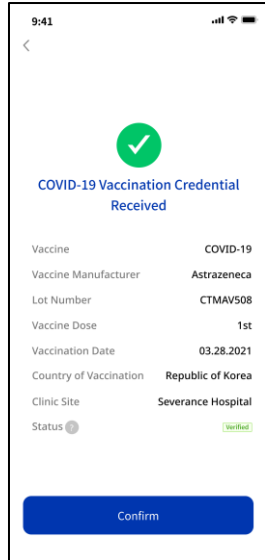
COOV Application Scenario

Download > User Consent (Pre-Issuance) > **Issuance** > Presentation > Verification > Settings

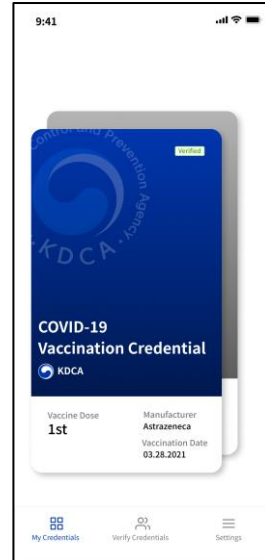
After completing your identity verification, you can receive your COVID-19 vaccination credential.



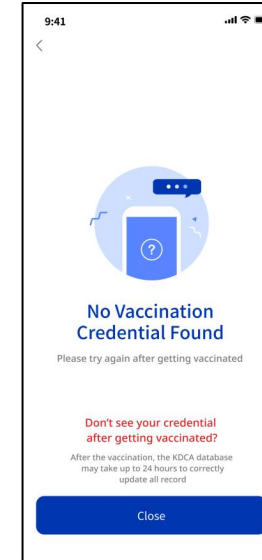
This is the first screen you see after completing your identity verification. 'Identity Credential' can also be used to verify your age classification. To receive your COVID-19 vaccination credential, press 'Receive My Credential' button.



If you have received your COVID-19 vaccine, your vaccination credential will appear on the screen. Review the information on your credential, and press 'Confirm'.



Once issued, your COVID-19 vaccination credential will appear as a card on your 'My Credentials' tab.



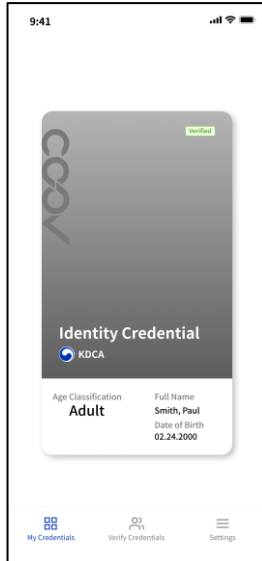
If the credential is not automatically received:

If you have not been vaccinated yet, or if your vaccination record cannot be found in KDCA's database, you will see the message "No Vaccination Credential Found". You may not be able to receive your vaccination credential for **up to 24 hours** after your vaccination.

COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > **Presentation** > Verification > Settings

You can present your Identity Credential. Select your Identity Credential card and then present its QR code to the recipient.



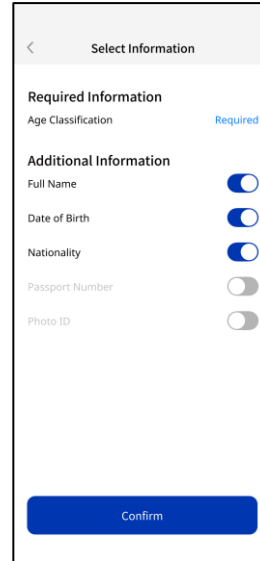
You can select which credential card to present. If you want to present 'Identity Credential', press the 'Identity Credential' card to proceed.



This is a detailed Identity Credential card. Pressing the 'Credential QR code' button located on the bottom will generate a one-time QR code that includes the information that you are sharing.

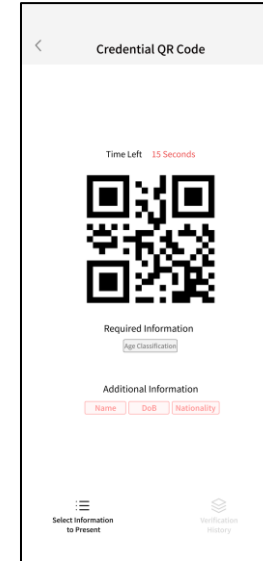


One-time QR code will renew every 15 seconds. A same QR code cannot be reused. **Required Information** and **Additional Information** that you are presenting will be displayed below the QR code. You can select which **Additional Information** to present by pressing 'Select Information to Present'.

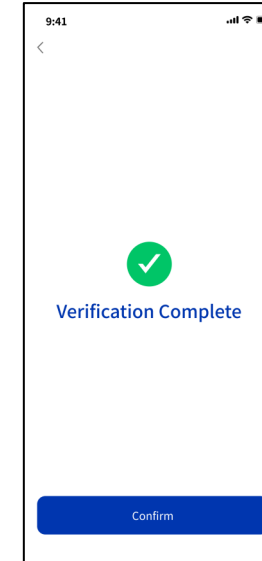


On 'Select Information' screen, you can activate the buttons for **Additional Information**, such as Name, Date of Birth, Nationality, etc. Pressing 'Confirm' will generate a QR code that includes the selected **Additional Information**.

*Some information, such as Passport Number and Photo ID, is not yet available.



Present your QR code for your recipient to scan.

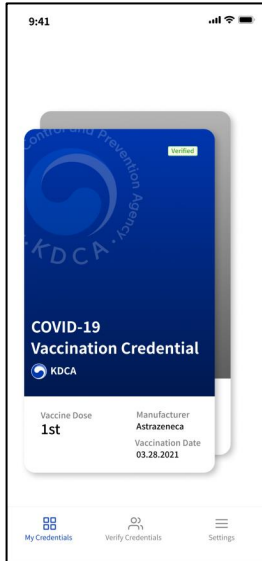


If your credential has been successfully delivered to the recipient, "Verification Complete" message will appear on the screen. Press 'Close' to return to the main screen.

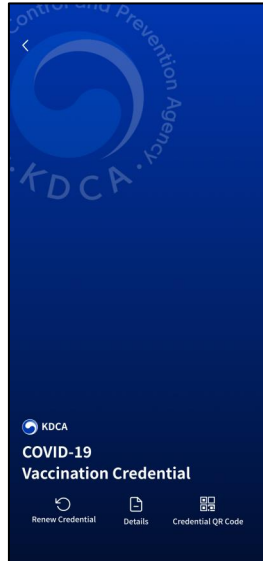
COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > **Presentation** > Verification > Settings

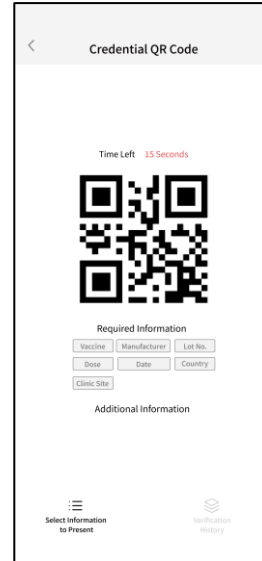
You can present your vaccination credential. Select your vaccination credential card press 'Credential QR Code' to present your vaccination credential QR code. In addition to the *required information*, you can selectively choose *additional information* to present to your recipient.



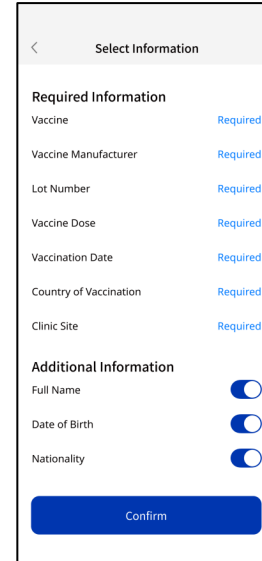
Select the credential card you want to present. For example, by pressing the COVID-19 Vaccination Credential card, you will open the credential's detailed page.



This is a detailed page of the COVID-19 Vaccination Credential. You can press 'Credential QR Code' located on the bottom-right corner to create a QR code that will be used to present your information.



The *Required Information* for presenting a vaccination credential are Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Country of Vaccination, Clinic Site, Vaccine's Lot Number. If you want to present *Additional Information*, you can press 'Select Information to Present'.

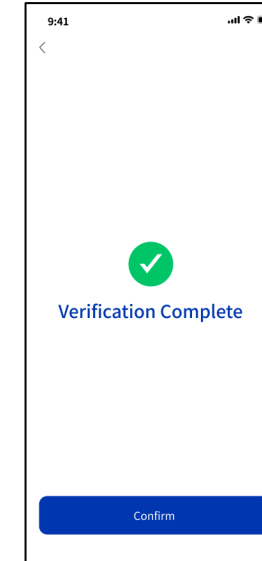


This is a screen for selecting which information to present. In addition to the *Required Information*, you can activate the buttons next to Name, D.o.B., Nationality, etc. By pressing 'Confirm', the activated information will also be presented.

*Some information, such as Passport Number and Photo ID, is not yet available.



This screen shows your QR code that includes *additional information* to present, which are highlighted in a red color.

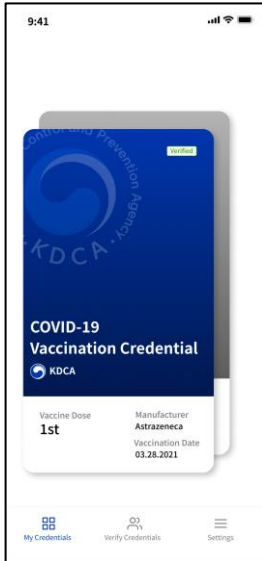


If your credential has been successfully delivered to the recipient, "Verification Complete" message will appear on the screen. Press 'Close' to return to the main screen.

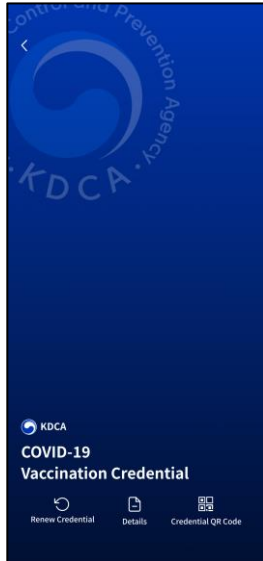
COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > **Presentation** > Verification > Settings

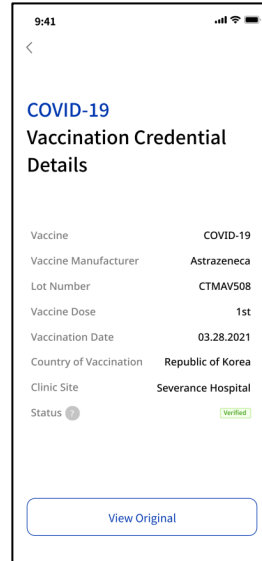
You can view your vaccination credential details, and also the original Certificate of Immunization issued by KDCA.



If you need to view your vaccination credential details or the original Certificate of Immunization, you must first press the credential card to view its detailed page.



This is a detailed page of the COVID-19 Vaccination Credential. You can press 'Details' located on the bottom of the screen to view your vaccination credential details.



This is a credential 'Details' screen. You can check the vaccination information, such as Vaccine Dose, Vaccine Manufacturer, Vaccination Date, etc.

If you want to view the original Certificate of Immunization issued by KDCA, press 'View Original' button located on the bottom.

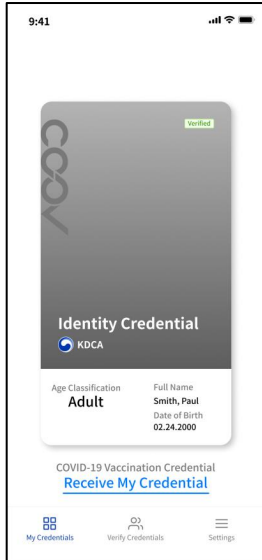


This is the Certificate of Immunization issued by KDCA.

COOV Application Scenario

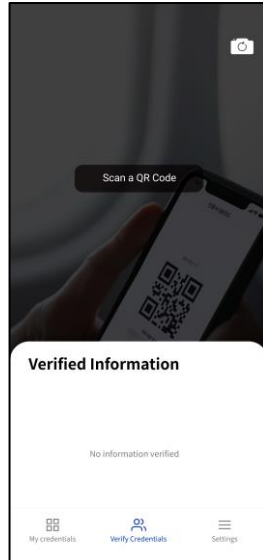
Download > User Consent (Pre-Issuance) > Issuance > Presentation > **Verification** > Settings

You can verify someone else's credentials by scanning his/her QR code. You will see *required information* and any *additional information* that he/she chose to present. If you are verifying someone's identity credential, you will also be able to see his/her age classification.



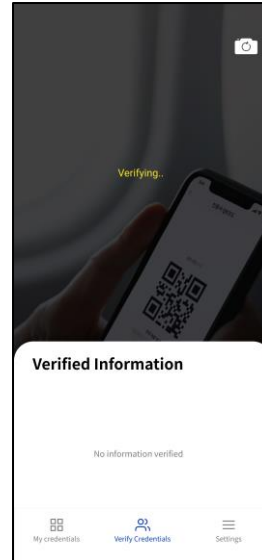
Even if you have not received your credential, you can still verify someone else's credentials.

Pressing 'Verify Credentials' button will activate your phone's camera to scan the presenter's QR code.

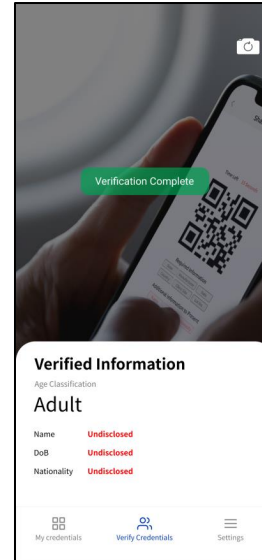


This is a screen where you can scan someone else's QR code, using your device's camera.

If your camera doesn't work, please check if the camera access permission (in your device settings) is enabled for COOV App.



This screen will be visible for a brief moment (~ 1 second) while the app is reading the scanned QR code.



If the verification is successfully completed, you will see "Verification Complete" message.

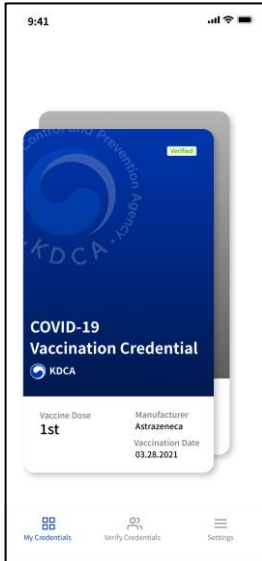
Displayed 'Verified Information' will be different depending on the type of credential provided.

For example, if the presenter provided his/her identity credential, you will be able to determine whether he/she is an adult or a minor.

COOV Application Scenario

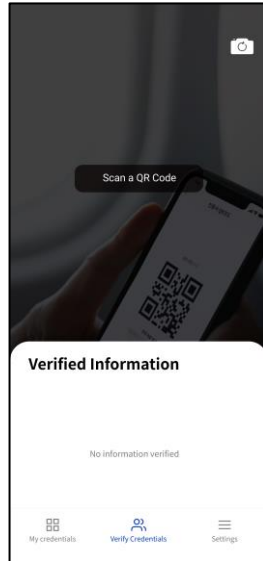
Download > User Consent (Pre-Issuance) > Issuance > Presentation > **Verification** > Settings

You can verify someone else's credentials by scanning his/her QR code. You will see *required information* and any *additional information* that he/she chose to present. If you are verifying a vaccination credential, you will be able to see the details of presented vaccination information.



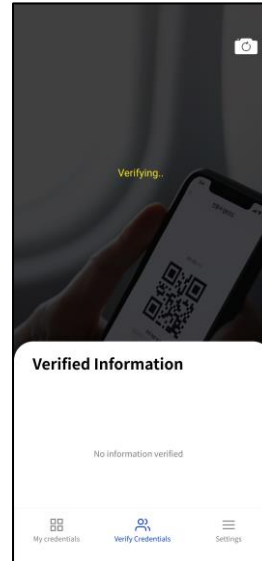
Even if you have not received your credential, you can still verify someone else's credentials.

Pressing 'Verify Credentials' button will activate your phone's camera to scan the presenter's QR code.

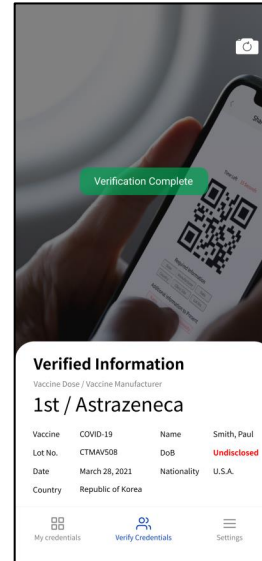


This is a screen where you can scan someone else's QR code, using your device's camera.

If your camera doesn't work, please check if the camera access permission (in your device settings) is enabled for COOV App.



This screen will be visible for a brief moment (~ 1 second) while the app is reading the scanned QR code.



If the verification is successfully completed, you will see "Verification Complete" message.

Displayed 'Verified Information' will be different depending on the type of credential provided. For example, if the presenter provided his/her vaccination credential, you will be able to see *required information* and any *additional information* he/she chose to present.

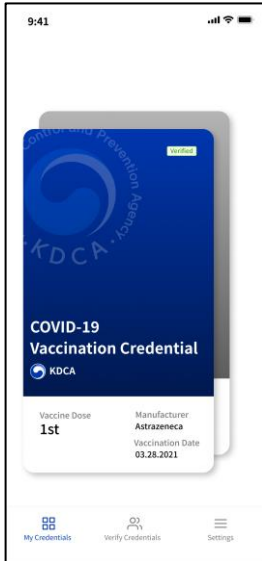
Verified Information
Vaccine Dose / Vaccine Manufacturer
1st / Astrazeneca

Vaccine	COVID-19	Name	Smith, Paul
Lot No.	CTMAV508	DoB	Undisclosed
Date	March 28, 2021	Nationality	U.S.A.
Country	Republic of Korea		

COOV Application Scenario

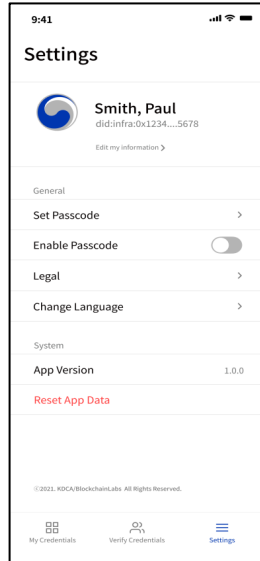
Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > **Settings**

You can set or change a passcode, and also enable or disable the use of a passcode for COOV App.

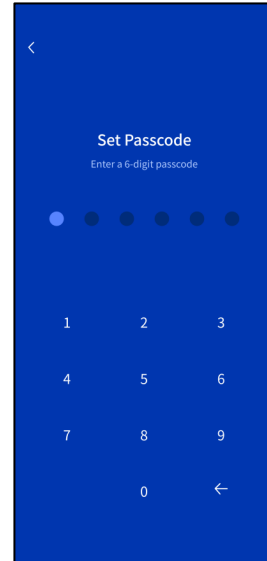


By pressing 'Settings' button located on the bottom-right corner, you will open COOV app's settings.

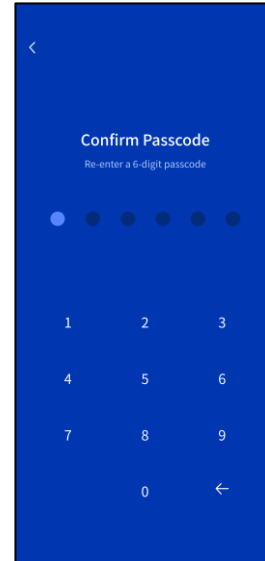
In 'Settings', you can check your account information, set or change a passcode, review the service Terms of Use and Privacy Policy, change app's language, etc.



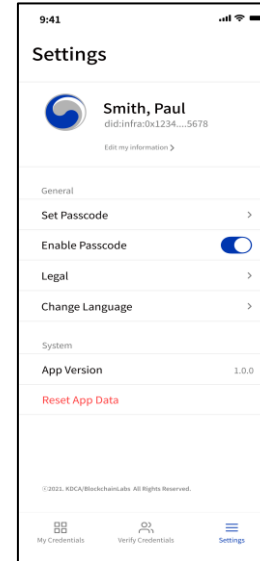
This is the 'Settings' page. You must first set a passcode before enabling it. You can do it by pressing 'Set Passcode' button.



You can set a 6-digit numeric passcode. After entering 6 digits, the app will ask you to confirm the passcode.



You can re-enter the 6-digit passcode to confirm it. If the re-entry matches the passcode set during the previous step, the app will go back to the 'Settings' page. If the re-entry does not match the passcode, you will receive "Passcode Does Not Match" message.



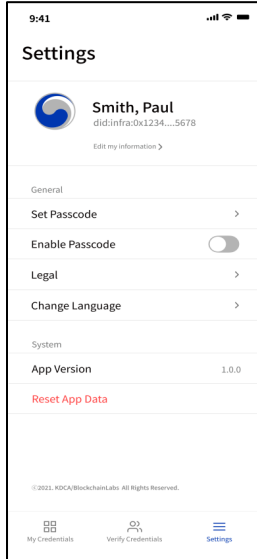
After setting a passcode, you can enable its use by pressing 'Enable Passcode' button.

Once passcode is enabled, pressing on any of the credential cards on the main page will prompt a passcode verification to ensure security.

COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > Settings

You can review the app's privacy policy that you gave consent to during the account set up process.

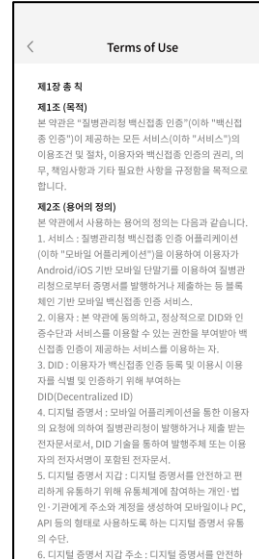
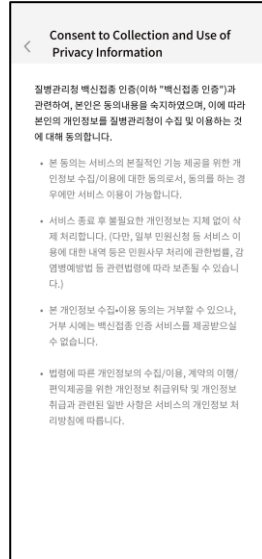


You can review the app's Terms of Use and Privacy Policy by pressing 'Legal' button in the Settings page.



Legal page includes the consent forms required for the use of COOV app.

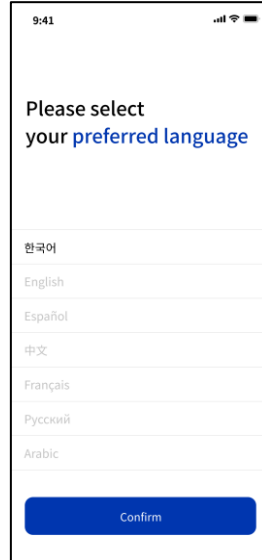
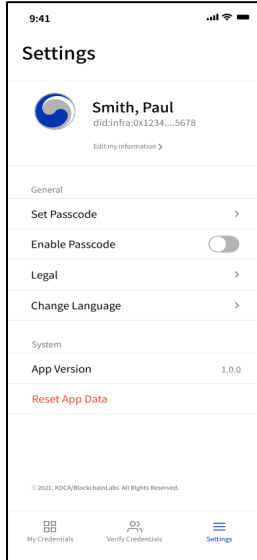
You can review the details of each consent form by pressing their buttons.



COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > **Settings**

You can change the language used in COOV app. COOV app offers Korean and 6 official languages of the United Nations (Russian, Spanish, Arabic, English, Chinese, French). Languages other than Korean and English will be available with future updates.



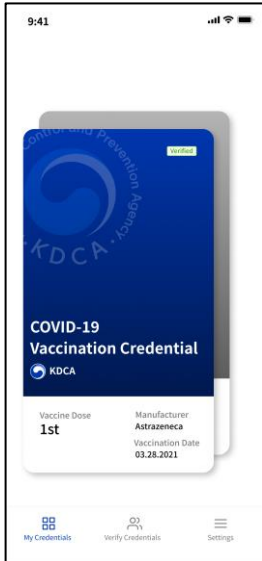
You can change the language used in COOV app by pressing 'Change Language' in the Settings.

Select the language you want to use, and then press 'Confirm' button. The change will take effect immediately.

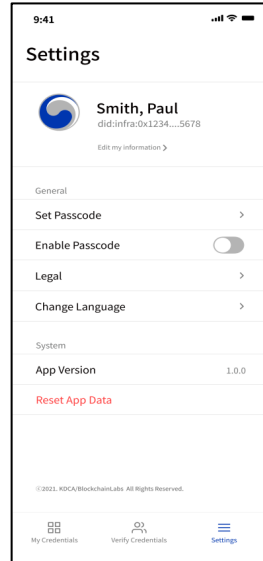
COOV Application Scenario

Download > User Consent (Pre-Issuance) > Issuance > Presentation > Verification > **Settings**

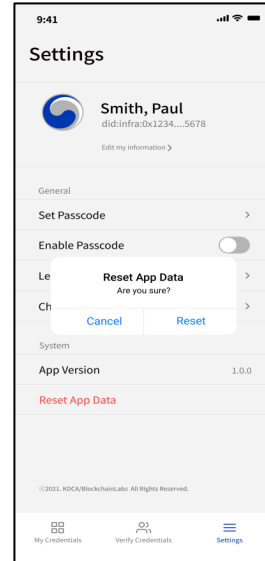
You can reset COOV app. By doing so, all of the credentials you've received and the personal settings will be lost.



Press 'Settings' located on the bottom-right corner.



Select 'Reset App Data'.



A confirmation message will appear on the screen.

Pressing 'Reset' will reset all app data, and all credentials and personal settings will be lost. Please proceed with caution.

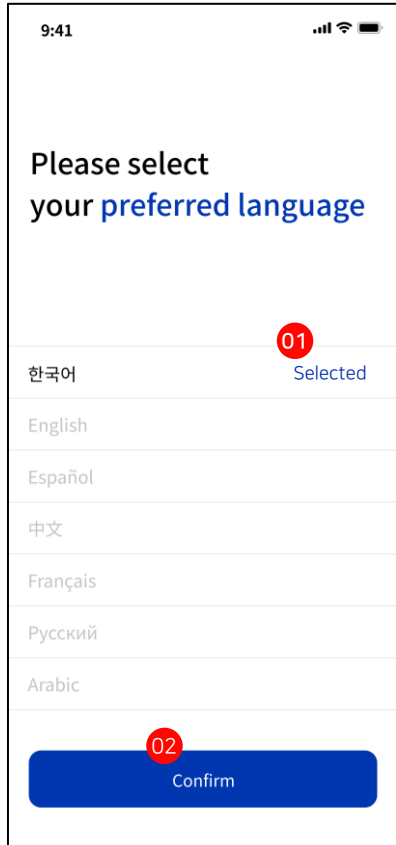
COOV App Screen Details

1. Credential Issuance Process
2. Credential Presentation Process
3. Credential Verification Process
4. App Settings

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Open COOV app > COOV Introduction > **Select Language**



1. Select Language

Select a language to use in COOV app.

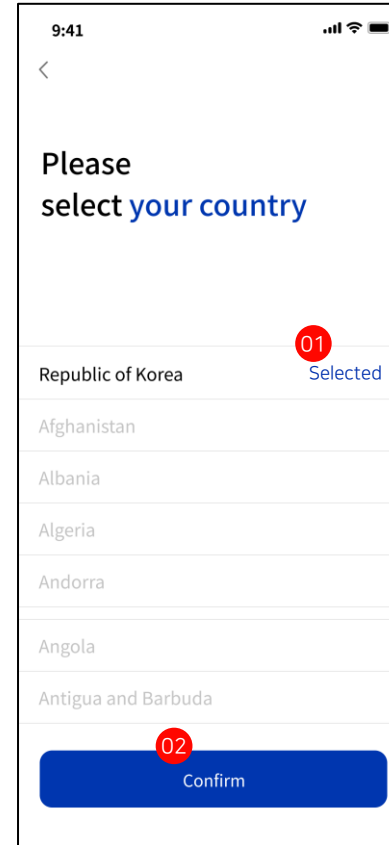
COOV app offers Korean and 6 official languages of the United Nations (Russian, Spanish, Arabic, English, Chinese, French).

* Languages other than Korean and English will be available with future updates.

2. Confirm

After selecting a language to use, press 'Confirm' to proceed to Select Region.

Open COOV app > COOV Introduction > Select Language > **Select Country**



1. Select Country

Select your Country

*Currently, only Republic of Korea is available for use; with future updates, we plan on making COOV available in all countries.

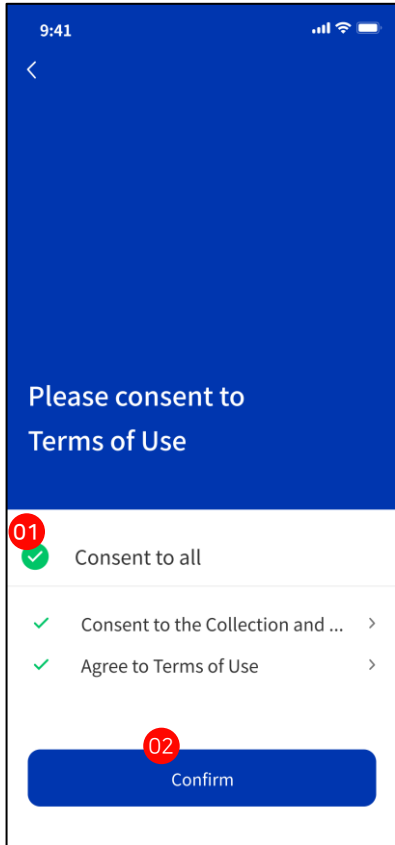
2. Confirm

After selecting your region, press 'Confirm' to proceed to the Consent to the Collection and the Use of Privacy Information page.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Select Language > Select Country > Consent Forms



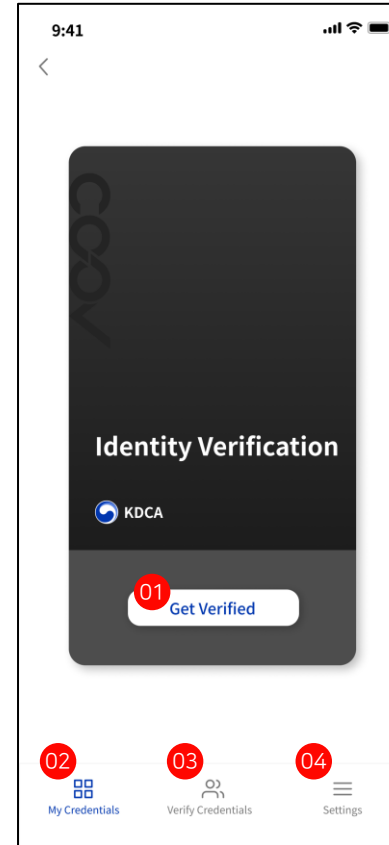
1. Consent to all

This consent form is to collect required information to use COOV app. Pressing the arrows next to 'Consent to the Collection and the Use of Privacy Information' and 'Agree to Terms of Use' will show their details. COOV app users must agree to all consent forms before they can start using the app.

2. Confirm

After providing consents to the forms, you can press 'Confirm' to proceed to the next step. You must provide consent to all forms in order to proceed.

Select Language > Select Country > Consent Forms > Identity Verification



1. Get Verified

This is a pre-ID verification screen. Identity Verification is required to retrieve your immunization record from KDCA's database. Pressing 'Get Verified' button will ask you to verify your identity using either cell phone carrier's PASS app or SMS.

2. My Credentials

At this time, because your Identity Credential has not been verified, you cannot access 'My Credentials'.

3. Verify Credentials

You can still verify someone else's credentials even if your identity credential has not been verified yet. Pressing this button will activate your device's camera, which will be able to scan the presenter's QR code and verify his/her credential.

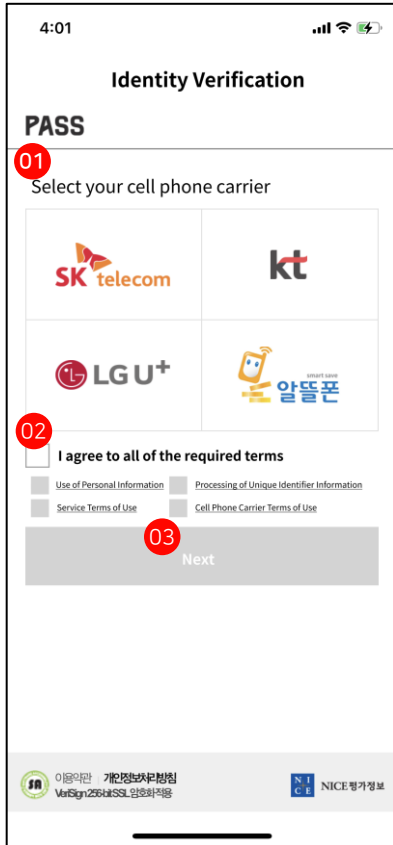
4. Settings

You can edit your personal information, change passcode and language, etc. You can also check for the version of the app, as well as review the consent forms.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Consent Forms > Identity Verification > **Carrier Verification**



1. Select Your Cell Phone Carrier

Select the cell phone carrier that you are currently using.

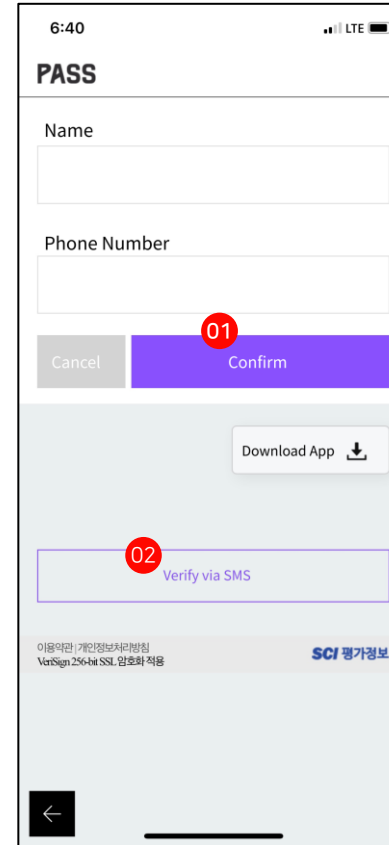
2. Agree to all required terms for identity verification

You must agree to the terms and policy that the cell phone carrier requires for identity verification. If you do not agree to all, you cannot proceed to the next step.

3. Start Your Identity Verification

Pressing 'Start' button after agreeing to all terms will take you to your carrier's PASS app to begin your identity verification process.

Consent Forms > Identity Verification > Carrier Verification > **PASS verification**



1. Cell Phone Carrier PASS Verification

If you have your phone carrier's PASS app installed, you can enter your name and your phone number, and then press 'Confirm'. You will be automatically taken to PASS app's verification page.

2. SMS Verification

If you do not have your phone carrier's PASS app installed, you can alternatively press 'Verify via SMS' button to proceed.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Consent Forms > Identity Verification > **SMS Verification**

4:02

Identity Verification

PASS

KT휴대폰결제 목표달성 프로모션 PASS BY KT

즉시할인혜택받았나, 봄

Name

Social Security Number

Phone Number

Security Text

9064

01 Confirm

이동통신사업자별 개인정보처리방침 VerSign 256bit SSL 암호화 적용 NICE 평가정보

1. SMS Verification

If you do not have your phone carrier's PASS app installed, you can alternatively use SMS verification.

Enter your name, first 7 digits of your social security number, and your phone number, and then press 'Confirm' to receive your verification code.

Enter the received verification code and press 'Confirm' again to complete the verification.

Consent Forms > ID Verification > Carrier Verification > **Check for Duplicated Uses**

9:41

Are you using a new device?

If you verify identity on a new device, COOV app on your previous device will reset.

Cancel Continue

01 02

1. Check for Duplicated Uses in Other Devices

If you have previously completed your identity verification on another device, you will receive "Are you using a new device?" message. No individual may use COOV app from multiple devices.

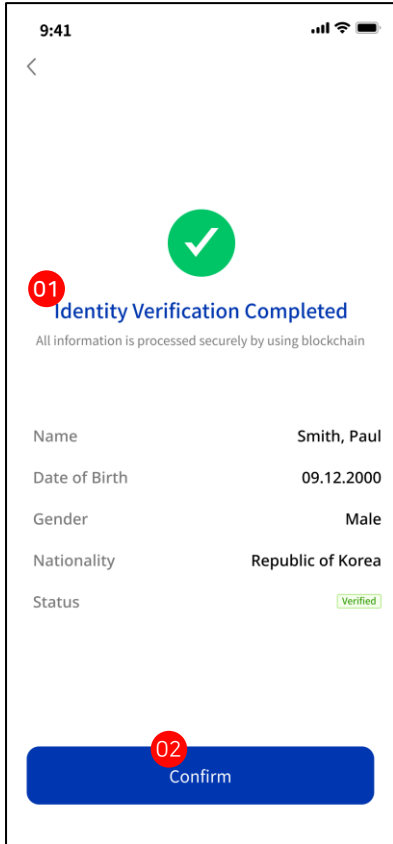
2. Continue

Press 'Continue' button to complete your identity verification process and get your vaccination credentials reissued. COOV app installed on your previous device is automatically reset.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Consent Forms > Identity Verification > Carrier Verification > **Verification Complete**



1. Identity Verification Complete

If you successfully complete your identity verification by using the phone carrier's PASS app or via SMS, you will receive "Identity Verification Complete" message.

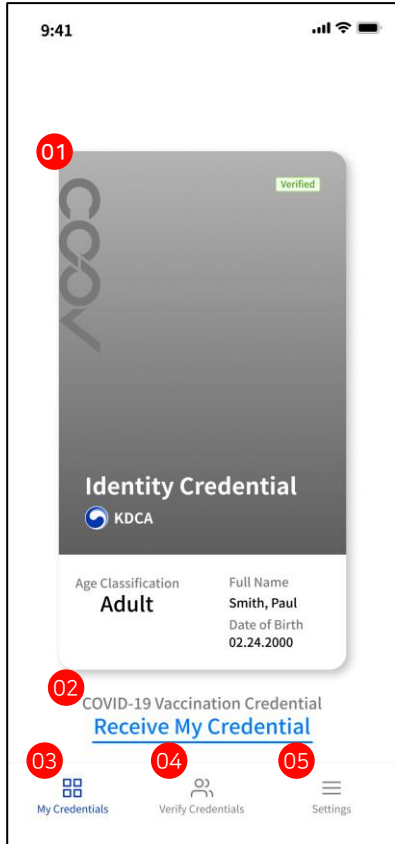
2. Confirm

After completing your identity verification, press 'Confirm' to get your 'Identity Credential' issued.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Carrier Verification > Verification Complete > **Vaccination Credential Issuance**



1. Identity Credential Card

Identity Credential is displayed in a form of a card. On the bottom of the card, your age classification (based on your D.o.B). Pressing the card will show the credential details page.

2. Receive Your Vaccination Credential

Press 'Receive My Credential' button to retrieve your vaccination information from KDCA database. If your COVID-19 vaccination record is found in the database, you will see "COVID-19 Vaccination Credential Received" message.

3. My Credentials

This button shows the current page, where you can see your identity credential card.

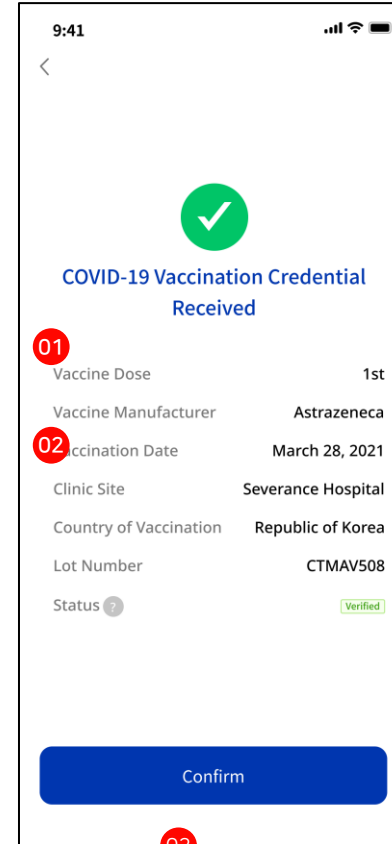
4. Verify Credentials

Pressing this button will activate your device's camera, enabling you to scan someone else's QR code and verify his/her presented credential.

5. Settings

You can edit your personal information, change passcode and language, etc. You can also check for the version of the app, as well as review the consent forms.

Carrier Verification > Verification Complete > V.C. Issuance > **Issue Complete**



1. COVID-19 Vaccination Credential Received

If your vaccination record is found in KDCA database, you will see "COVID-19 Vaccination Credential Received" message and get your vaccination credential issued.

2. Vaccination Information

Your vaccination information (retrieved from KDCA database) is displayed here.

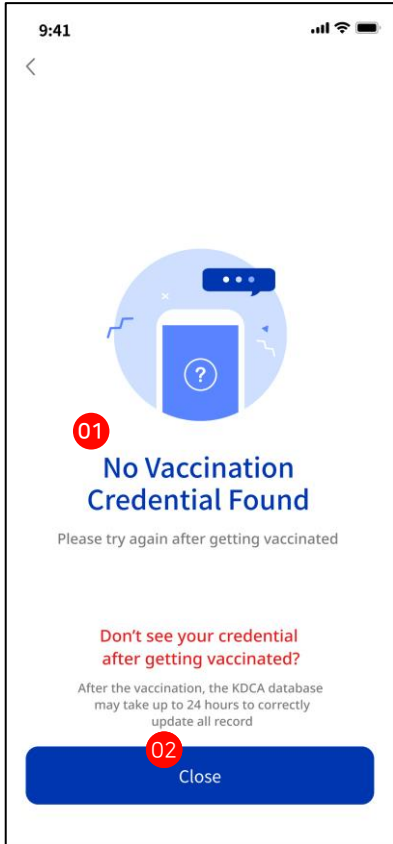
3. Confirm

Press 'Confirm' to get your digital vaccination credential issued.

COOV App Screen Details

(Identity/Vaccination) Credential Issuance > Presentation > Verification > App Settings

Carrier Verification > Verification Complete > V.C. Issuance > **No Credential**



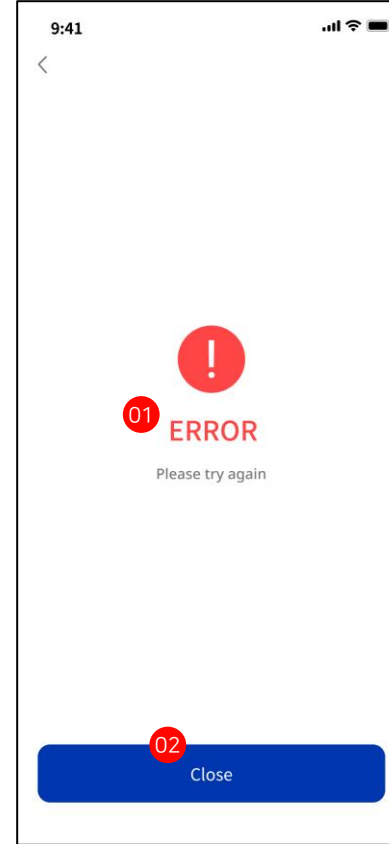
1. No Vaccination Credential Found.

If you have not been vaccinated yet, you will receive “No Vaccination Credential Found” message. Even after getting vaccinated, the database may take **up to 24 hours** to update, which may prevent immediate issuance of the vaccination credential after getting vaccinated.

2. Close

Pressing the ‘Close’ button will return the screen to the page with the Identity Credential card.

Carrier Verification > Verification Complete > V.C. Issuance > **Error**



1. Error

If there are too much network traffic to KDCA database, an error may occur and prevent the retrieval of vaccination information.

2. Close

Pressing the ‘Close’ button will return the screen to the page with the Identity Credential card. You may try pressing ‘Receive My Credential’ button again to continue. If the problem persists, please try again later.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Phone Carrier ID Verification > Verification Complete > **Identity Credential**

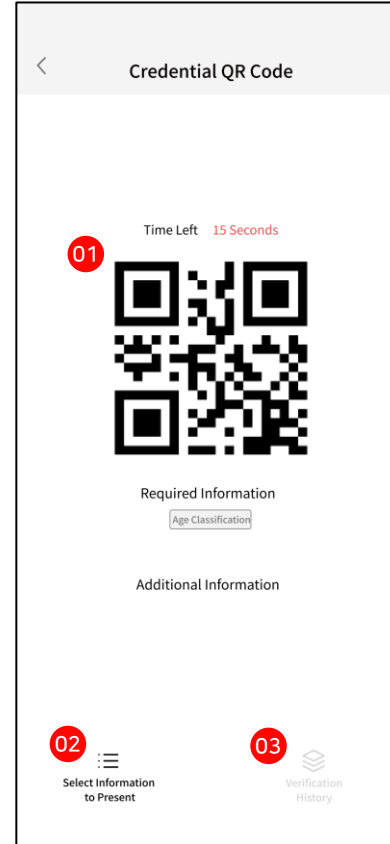


1. Credential QR Code

Once you get your identity verified and receive your identity credential, you can present it to provide a proof that you are an adult (old enough to pass the minor-check).

Press your Identity Credential card and then press the 'Credential QR Code' to generate a QR code that includes your age classification.

Phone Carrier ID Verification > Verification Complete > Identity Credential > **Credential QR Code**



1. Credential QR Code

You can use your Identity Credential to indicate whether you are an adult or a minor. Your 'Credential QR Code' can be presented to verify your age classification, without revealing other personal information.

2. Select Information to Present

Press this button to choose which information you want to present to the verifier.

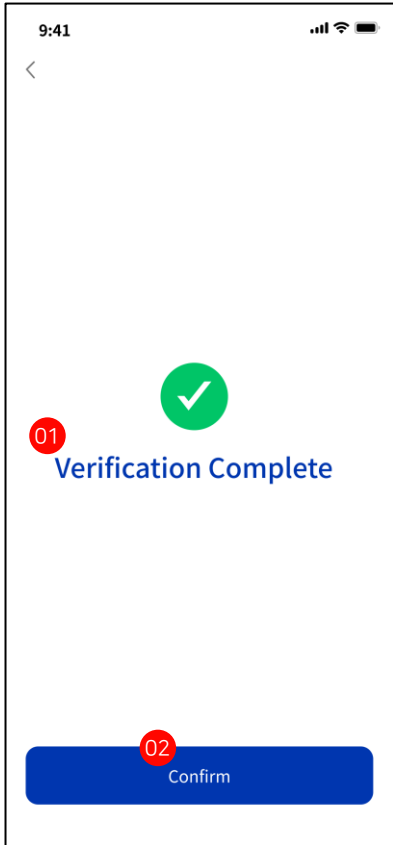
3. Verification History

You can check your QR Code's presentation history. This feature is currently unavailable.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Carrier ID Verification > Verification Complete > Identity Credential > Credential QR Code > **Presentation Complete**



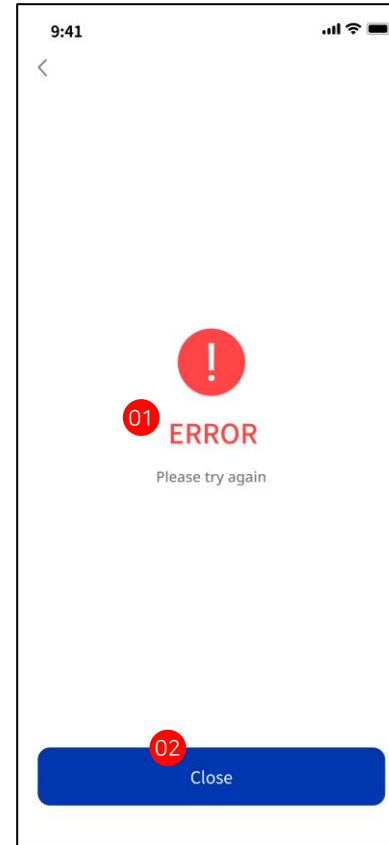
1. Verification Complete

If the information on your QR code was successfully presented to the recipient, you will receive "Verification Complete" message on your screen.

2. Close

Pressing 'Close' button will take you to the main page.

Carrier ID Verification > Verification Complete > Identity Credential > Credential QR Code > **Presentation Failed**



1. Error

If the information on your QR code was not presented successfully because of a network issue during the scan, you will receive "Error" message.

Press 'Close' button to close the message and try presenting again.

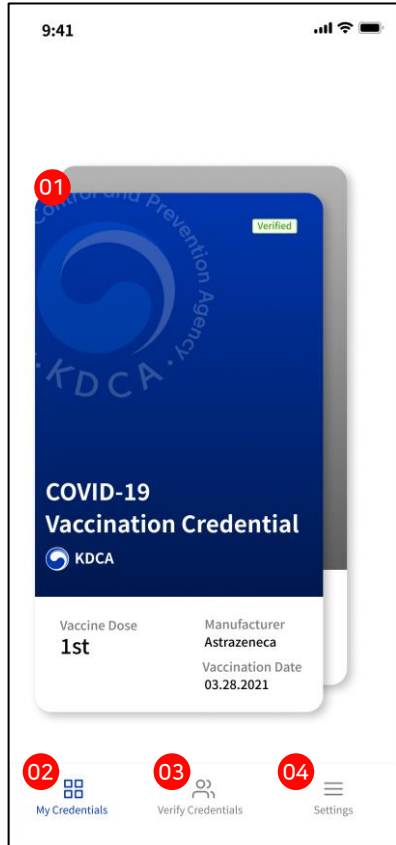
2. Close

Pressing the 'Close' button will take you back to the main page. You can start the presentation process over from pressing your Identity Credential card.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Main Screen



1. Vaccination Credential Card

Your vaccination credential is shown as a card form within COOV app. A logo of the issuing agency is located on the upper-left corner of the card, and a simplified vaccination information is displayed at the bottom of the card.

Pressing the card will show the detailed menu of the card, such as 'Renew Credential', 'Details', and 'Credential QR Code'.

2. My Credentials

This button will show you the main screen where you can view all of your credentials. You can navigate and select the credential that you wish to present.

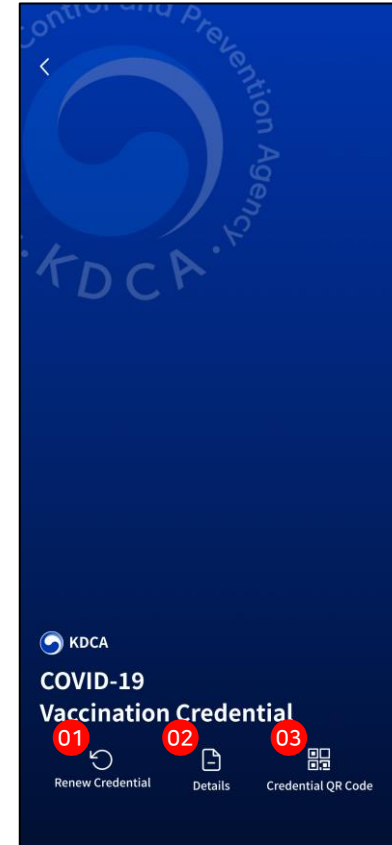
3. Verify Credentials

Pressing this button will activate your device's camera, enabling you to scan someone else's QR code and verify his/her presented credential.

4. Settings

You can set and/or change your account settings, such as personal information, passcode, language, etc. You can also view 'Legal' information about the app and check the version of the app.

Main Screen > Vaccination Credential Card



1. Renew Credential

If you receive additional doses of the vaccine, you can press this button to receive your updated vaccination credential. You can review the updated information under 'Details' menu.

2. Details

Pressing this button will take you a screen where you can see the Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Clinic Site, and Country of Vaccination. You will also be able to view the original Certificate of Immunization.

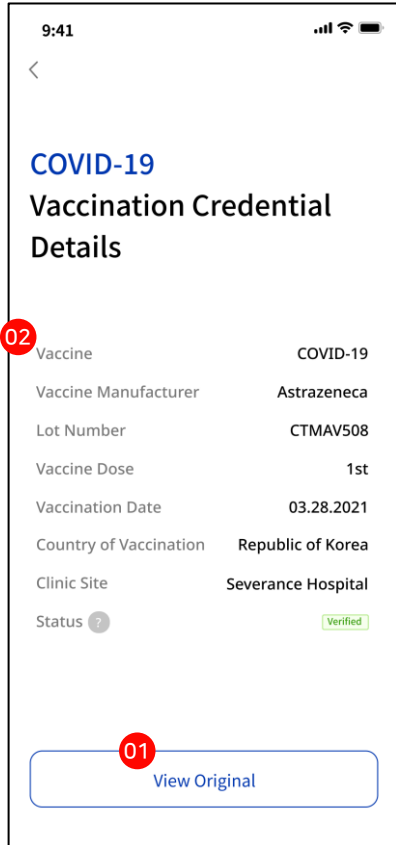
3. Credential QR Code

Pressing this button will show the QR code for the selected credential that you can present to a verifier.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Main Screen > Vaccination Credential Card > **Details**



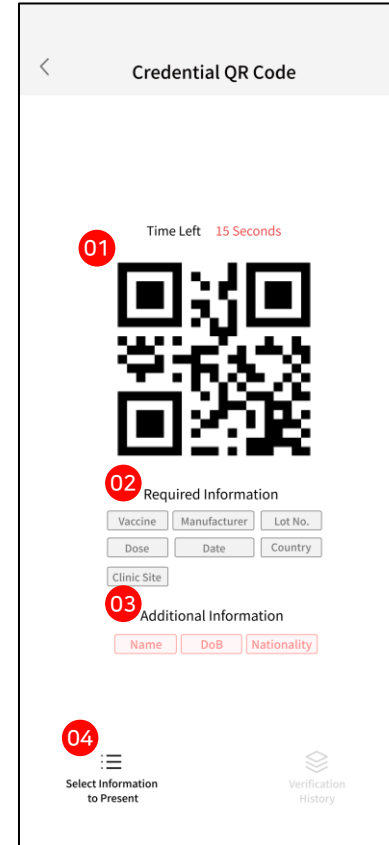
1. View Original

By pressing 'View Original' button, you can see the original Certificate of Immunization issued by KDCA.

2. Vaccination Information

You can see your vaccination information. Details about your vaccination information, such as Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Clinic Site, Country of Vaccination, etc., are displayed.

Main Screen > Vaccination Credential Card > **Credential QR Code**



1. QR Code

This is a one-time-use QR code that includes the information you are presenting. Same QR code cannot be used multiple times in verification process. A QR code automatically refreshes every 15 seconds.

2. Required Information

Required Information that you are presenting to a recipient are displayed below. *Required Information* are Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Clinic Site, Country of Vaccination, and Vaccine Lot Number. Recipient (verifier) can review these information during the verification process.

3. Additional Information

In addition to *Required Information*, you can select other information to present. If you choose not to present any *Additional Information*, you will not see any list under the title. You can make your selection by pressing 'Select Information to Present' button.

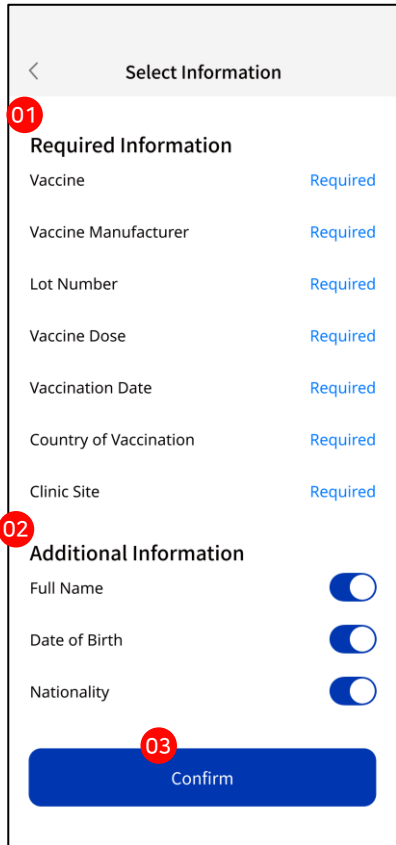
4. Select Information to Present

By pressing this button you will be able to modify which information you are presenting to your recipient.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Main Screen > Vaccination Credential Card > Credential QR Code > **Select Information to Present**



1. Required Information

These are the list of required information that you must present for a vaccination verification. They are: Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Clinic Site, Country of Vaccination, and Vaccine Lot Number.

2. Additional Information

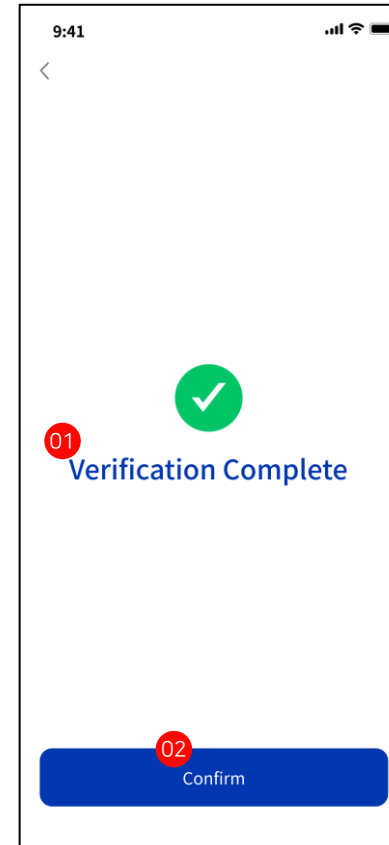
You can activate the buttons of the information you wish to present. The recipient (verifier) can view activated information along with the *Required Information*. The buttons of activated *Additional Information* have blue band.

*Activating Passport Number and Photo ID will be made available after receiving consent from the related government agency.

3. Confirm

Press 'Confirm' button to return to Credential QR Code screen.

Main Screen > Vaccination Credential Card > Credential QR Code > QR Scan > **Presentation Complete**



1. Verification Complete

If the information on your QR code was successfully presented to the recipient, you will receive "Verification Complete" message on your screen.

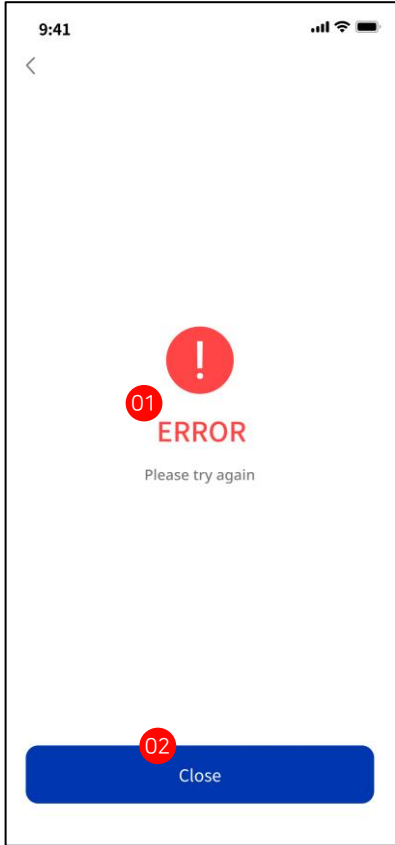
2. Close

Pressing 'Close' button will take you to the main page.

COOV App Screen Details

Issuance > (Identity/Vaccination) Credential Presentation > Verification > App Settings

Main Screen > Vaccination Credential Card > Credential QR Code > QR Scan > **Presentation Failed**



1. Error

If the information on your QR code was not presented successfully because of a network issue during the scan, you will receive "Error" message.

Press 'Close' button to close the message and try presenting again.

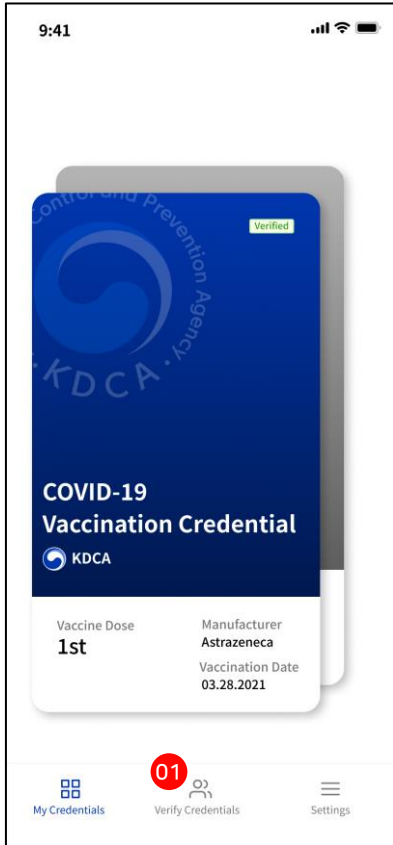
2. Close

Pressing the 'Close' button will take you back to the main page. You can start the presentation process over from pressing your Identity Credential card.

COOV App Screen Details

Issuance > Presentation > (Identity/Vaccination) Credential Verification > App Settings

Main Screen > **Verify Credentials**



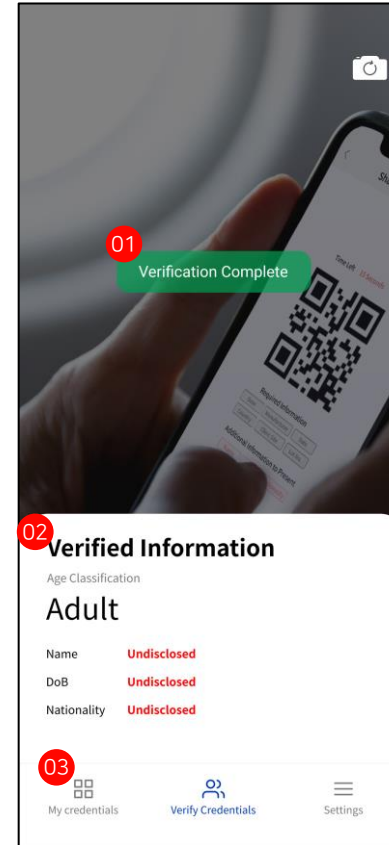
1. Verify Credentials

Pressing this button will activate your device's camera, enabling you to scan someone else's QR code and verify his/her presented credential.

If you receive "Please allow Camera access in your device's Settings" message when you press 'Verify Credentials', you need to allow COOV app to access Camera in your device's Settings.

*'Verify Credentials' can be used at any time regardless of your vaccination credential status.

Main Screen > Verify Credentials > **Verification Complete**



1. Verification Complete

If you have successfully read the presenter's information from the QR scan, you will see "Verification Complete" message on the screen.

2. Verified Information

If the presenter presented his/her Identity Credential, the age classification is shown by default. If he/she is a minor, it will show 'Underage'; if he/she is not a minor, it will show 'Adult'. If the presenter also included *Additional Information*, they will be displayed here as well.

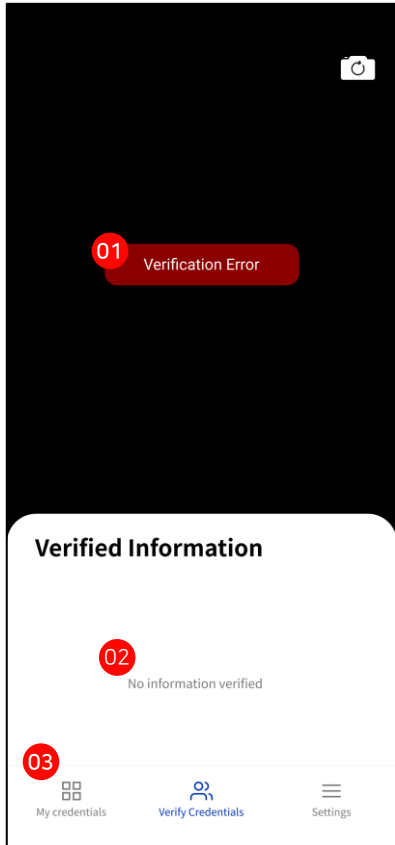
3. My Credentials

After the verification process is completed, you can press 'My Credentials' button to return to the main screen.

COOV App Screen Details

Issuance > Presentation > (Identity/Vaccination) Credential Verification > App Settings

Main Screen > Verify Credentials > **Verification Failed**



1. Verification Error

QR codes generated in COOV app are compliant with the standard DID specs. When the presenter's QR code is standard-DID compliant, COOV app verifies the validity of the included data. If the presented data is invalid, you will see "Verification Error" message.

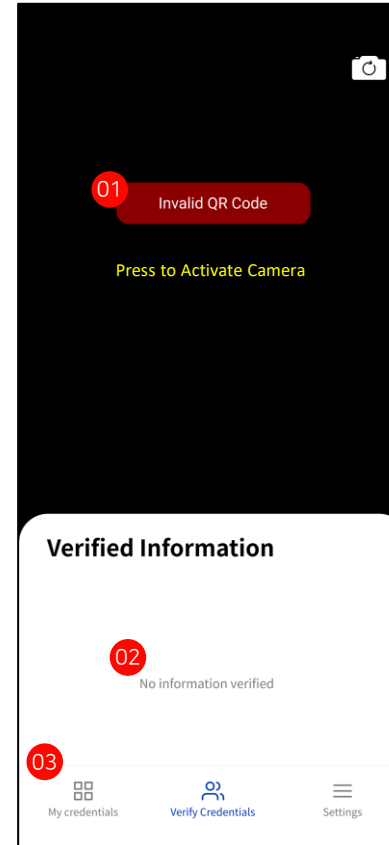
2. Verified Information

Unless you receive "Verification Complete" message, you will only see "No information verified" message under the 'Verified Information' section.

3. My Credentials

You can press 'My Credentials' button to return to the main screen.

Main Screen > Verify Credentials > **Verification Failed**



1. Invalid QR Code

If the presenter scans QR codes that are generated by a third-party application (Kakao QR, Naver QR, etc.), you will receive "Invalid QR Code" message.

2. Verified Information

Unless you receive "Verification Complete" message, you will only see "No information verified" message under the 'Verified Information' section.

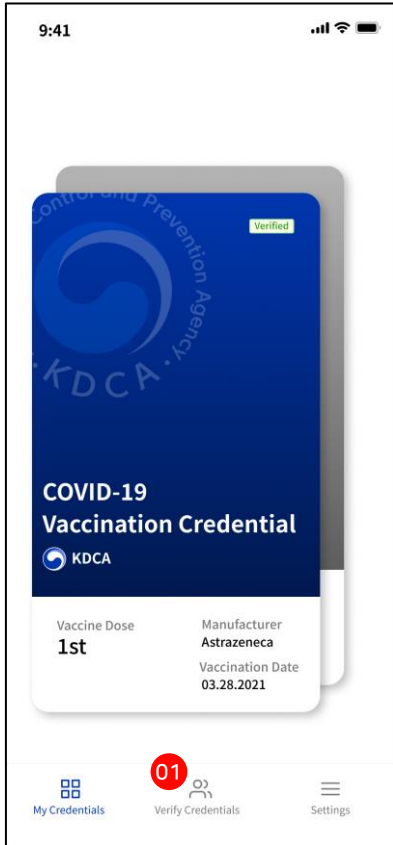
3. My Credentials

You can press 'My Credentials' button to return to the main screen.

COOV App Screen Details

Issuance > Presentation > (Identity/Vaccination) Credential Verification > App Settings

Main Screen > **Verify Credentials**

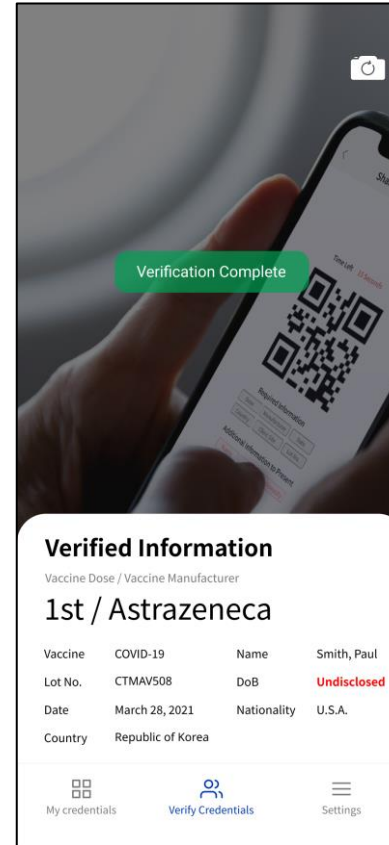


1. Verify Credentials

Pressing this button will activate your device's camera, enabling you to scan someone else's QR code and verify his/her presented credential.

If you receive "Please allow Camera access in your device's Settings" message when you press 'Verify Credentials', you need to allow COOV app to access Camera in your device's Settings.

Main Screen > Verify Credentials > **Verification Complete**



1. Verification Complete

If you have successfully read the presenter's information from the QR scan, you will see "Verification Complete" message on the screen.

2. Verified Information

If the presenter presents a QR code for his/her vaccination credential you will be able to see his/her vaccination information, which will include Vaccine Dose, Vaccine Manufacturer, Vaccination Date, Clinic Site, Country of Vaccination, and Vaccine Lot Number by default. If the presenter chooses to include any *Additional Information* in the presentation, they will be displayed here as well.

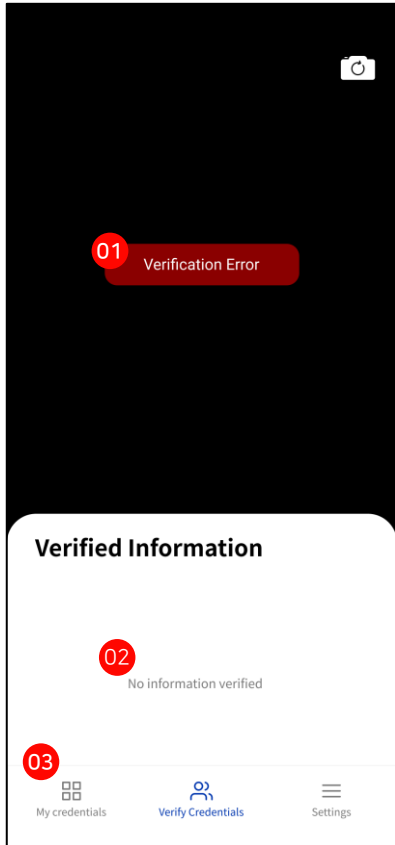
3. My Credentials

After the verification process is completed, you can press 'My Credentials' button to return to the main screen.

COOV App Screen Details

Issuance > Presentation > (Identity/Vaccination) Credential Verification > App Settings

Main Screen > Verify Credentials > **Verification Failed**



1. Verification Error

QR codes generated in COOV app are compliant with the standard DID specs. When the presenter's QR code is standard-DID compliant, COOV app verifies the validity of the included data. If the presented data is invalid, you will see "Verification Error" message.

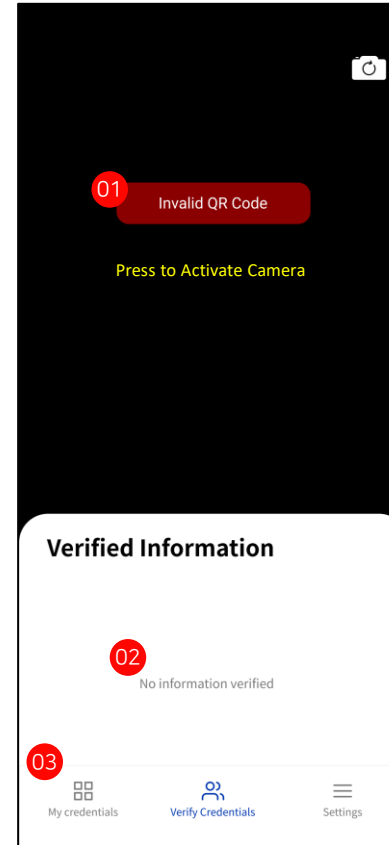
2. Verified Information

Unless you receive "Verification Complete" message, you will only see "No information verified" message under the 'Verified Information' section.

3. My Credentials

You can press 'My Credentials' button to return to the main screen.

Main Screen > Verify Credentials > **Verification Failed**



1. Invalid QR Code

If the presenter scans QR codes that are generated by a third-party application (Kakao QR, Naver QR, etc.), you will receive "Invalid QR Code" message.

2. Verified Information

Unless you receive "Verification Complete" message, you will only see "No information verified" message under the 'Verified Information' section.

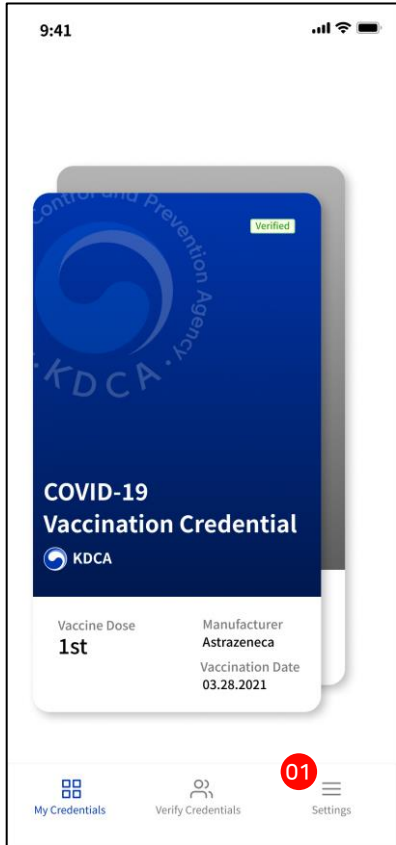
3. My Credentials

You can press 'My Credentials' button to return to the main screen.

COOV App Screen Details

Issuance > Presentation > Verification > App Settings

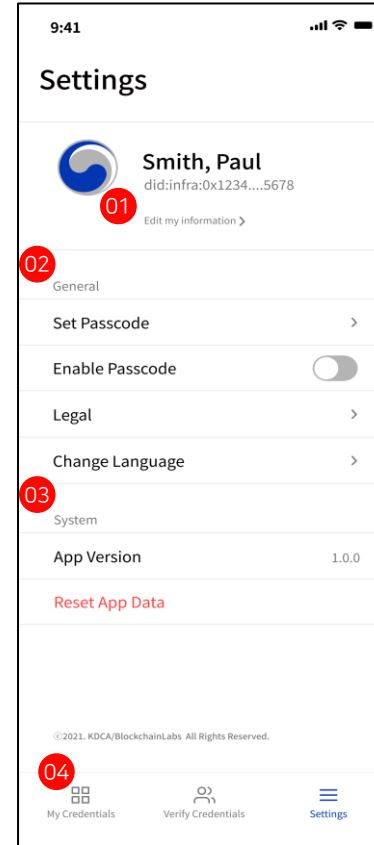
Main Screen > **Settings**



1. Settings

Pressing 'Settings' on the main screen will take you to the COOV App Settings screen, where you can set or edit personal information, passcode, language, etc.

Main Screen > Settings > **Settings Menu**



1. Edit My Information

By pressing this button, you can edit your personal information. Your information includes your name, nationality, and your DID by default.

*DID(Decentralized ID) is a unique digital ID issued to each user. It ensures safe presentation and verification of information while protecting your privacy.

2. General Settings

You can set or change passcode, enable the use of passcode, review legal information, and change language.

3. App Version and Reset App Data

To provide better service, COOV app will continue to be updated. In order to use the new/updated features correctly, we recommend that you use the newest version of the app. If the device setting prevents automatic update of the app, you can manually update the app.

By pressing 'Reset App Data', you can delete all data and reset COOV app. Please be aware that all of your credentials and account settings will be lost once you reset

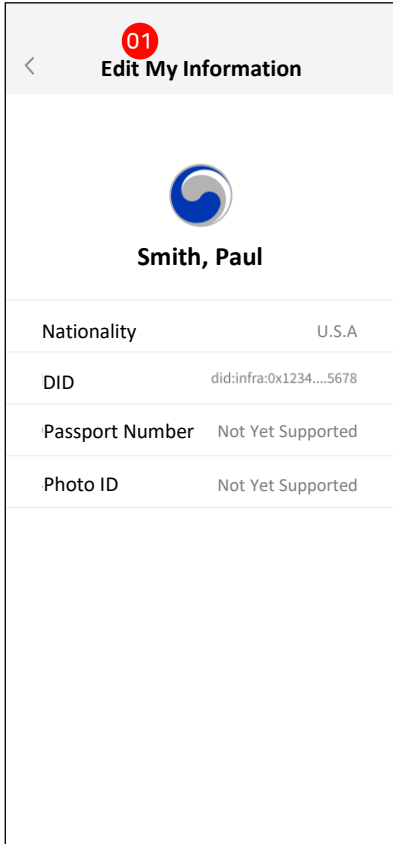
4. My Credentials

You can press 'My Credentials' button to return to the main screen.

COOV App Screen Details

Issuance > Presentation > Verification > App Settings

Main Screen > Settings > **Edit My Information**

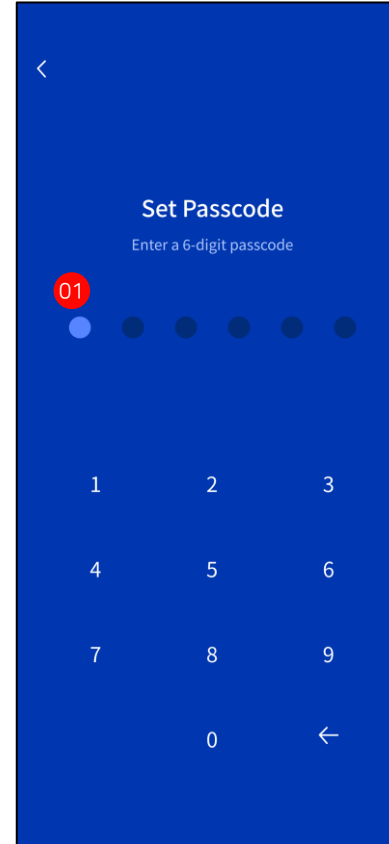


1. Edit My Information

You can check the required information for the use of COOV app (Name, Nationality, DID), and also add more information such as Passport Number and Photo ID

*Activating Passport Number and Photo ID will be made available after receiving consent from the related government agency.

Main Screen > Settings > **Set Passcode**



1. Set Passcode

You can set a 6-digit numeric passcode. After entering 6 digits, the app will ask you to confirm the passcode.

After setting the passcode, you need to press 'Enable Passcode' button to activate it

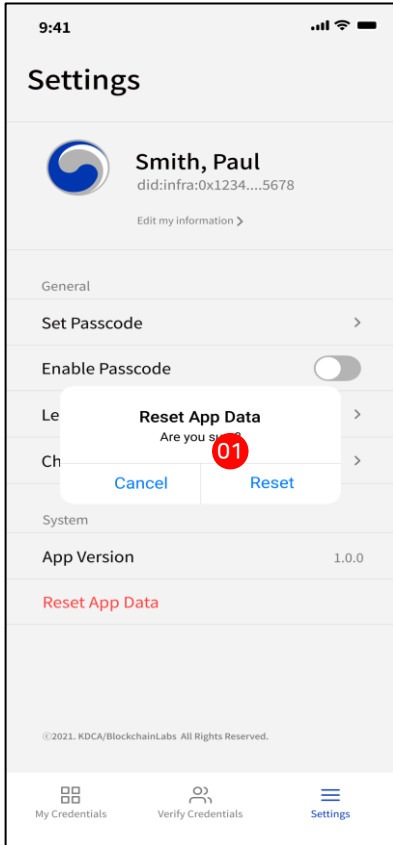


You can change your passcode by pressing 'Set Passcode' again.

COOV App Screen Details

Issuance > Presentation > Verification > App Settings

Main Screen > Settings > **Edit My Information**



1. Reset App Data

Pressing 'Reset App Data' button will prompt a confirmation message on your screen. You can press 'Reset' button to proceed.

Please note that all of your credentials and personal settings will be lost and cannot be recovered. You will need to start over from the beginning after resetting the app data.