Manual testing task

Test case 1. Happy valid test case for the TFA activation

Title: Verify Two-Factor Authentication (TFA) process in the application works as expected **Description:** Positive test case scenario to verify that Two-Factor Authentication (TFA) process works as expected with **valid input**

Test step action	Expected Result
Go navigate to Two-Factor Authentication (TFA) option of your app	Two-Factor Authentication (TFA) option of your app is shown on the screen.
	Two-Factor Authentication (TFA) is not enabled
	(You have not enabled two factor authentication message is displayed)
Click Enable button	Finish enabling two factor authentication message is displayed
	QR code and Setup Key are generated on the screen successfully
Follow the instructions on the page	Account added message is displayed on your phone's Google Authenticator app
Option 1. Add account via QR code Scan the QR code on the screen using your phone's Google Authenticator app Option 2. Add account by using setup key	Random 6-digit code is generated on your phone's Google Authenticator app
Enter the Setup Key placed under the QR code on your phone's Google Authenticator app	
Enter the generated OTP code (Random 6-digit code) from your phone's Google Authenticator app in the Code field and click CONFIRM button	You will be prompt to Confirm Password screen

Enter your password and click CONFIRM	You have enabled two factor
button	authentication message is displayed
	Random Recovery codes are generated
	Red button DISABLE is displayed also (click if
	you want to disable Two-Factor
	Authentication (TFA) option)

Test case 2. Negative, edge test case for the TFA activation

Title: Verify Two-Factor Authentication (TFA) process in the application works as expected when OTP code is **expired**

Description: Negative test case scenario to verify that Two-Factor Authentication (TFA) process works as expected with **expired code**

Test step action	Expected Result
Go navigate to Two-Factor Authentication	Two-Factor Authentication (TFA) option of
(TFA) option of your app	your app is shown on the screen.
	Two-Factor Authentication (TFA) is not enabled
	(You have not enabled two factor
	authentication message is displayed)
Click Enable button	Finish enabling two factor authentication
	message is displayed
	QR code and Setup Key are generated on
	the screen successfully
Follow the instructions on the page	Account added message is displayed on your phone's Google Authenticator app
Option 1. Add account via QR code	your priorie's Google Authenticator app
Scan the QR code on the screen using your	Random 6-digit code is generated on your
phone's Google Authenticator app	phone's Google Authenticator app
Option 2. Add account by using setup key	,
Enter the Setup Key placed under the QR	
code on your phone's Google Authenticator	

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Wait for the generated OTP code (Random 6-digit code) from your phone's Google Authenticator app to expire . (OTP code is temporary and expire after certain time)	Message that invalid or expired code is used is displayed on the screen
Enter the expired OTP code in the Code field and click CONFIRM button	

Test case 3. Negative, edge test case for the TFA activation

Title: Verify Two-Factor Authentication (TFA) process in the application works as expected when OTP code is **invalid**

Description: Negative test case scenario to verify that Two-Factor Authentication (TFA) process works as expected with **invalid input**

Test step action	Expected Result
Go navigate to Two-Factor Authentication	Two-Factor Authentication (TFA) option of
(TFA) option of your app	your app is shown on the screen.
	Two-Factor Authentication (TFA) is not enabled
	(You have not enabled two factor
	authentication message is displayed)
Click Enable button	Finish enabling two factor authentication
	message is displayed
	QR code and Setup Key are generated on
	the screen successfully
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Follow the instructions on the page	Account added message is displayed on
	your phone's Google Authenticator app
Option 1. Add account via QR code	
Scan the QR code on the screen using your	

phone's Google Authenticator app Option 2. Add account by using setup key	Random 6-digit code is generated on your phone's Google Authenticator app
Enter the Setup Key placed under the QR code on your phone's Google Authenticator app	
Replace one digit of the valid OTP code (Random 6-digit code) from your phone's Google Authenticator app with another random digit (to make OTP code invalid) Enter the invalid OTP code in the Code field and click CONFIRM button	Message that invalid code is used is displayed on the screen

Test case 4. Negative, edge test case for the TFA activation

Title: Verify Two-Factor Authentication (TFA) process in the application works as expected when **two accounts** are added to Google Authenticator app

Description: Negative test case scenario to verify that Two-Factor Authentication (TFA) process works as expected with **two accounts** added to Google Authenticator app

Test step action	Expected Result
Go navigate to Two-Factor Authentication	Two-Factor Authentication (TFA) option of
(TFA) option of your app	your app is shown on the screen.
	Two-Factor Authentication (TFA) is not enabled
	(You have not enabled two factor
	authentication message is displayed)
Click Enable button	Finish enabling two factor authentication
	message is displayed
	QR code and Setup Key are generated on the screen successfully

Option 1. Add account via QR code Scan the QR code on the screen using your phone's Google Authenticator app Option 2. Add account by using setup key Enter the Setup Key placed under the QR code on your phone's Google Authenticator app	Account added message is displayed on your phone's Google Authenticator app Random 6-digit code is generated on your phone's Google Authenticator app That is account 1 with OTP code 1
Repeat step above for either Option 1 . Or Option 2 .	Separate, second account is created on your phone's Google Authenticator app Random 6-digit code is generated on your phone's Google Authenticator app for that second account That is account 2 with OTP code 2
Enter the generated OTP code 1 from account 1 (Random 6-digit code) from your phone's Google Authenticator app in the Code field and click CONFIRM button	Message that invalid code is used is displayed on the screen
Enter the generated OTP code 2 from account 2 (Random 6-digit code) from your phone's Google Authenticator app in the Code field and click CONFIRM button	You will be prompt to Confirm Password screen
Enter your password and click CONFIRM button	You have enabled two factor authentication message is displayed Random Recovery codes are generated Red button DISABLE is displayed also (click if you want to disable Two-Factor Authentication (TFA) option)