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**Software Requirements Specification of Admin Web**

[X-Wallet]

*Phase 1*

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Version: 1.0

Date: 12/11/2021

Document ID: XWAL – SRS.ADMIN.01

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# Introduction

## Purpose

This Software Requirements Specification (SRS) outlines the detailed functional requirements for the Admin Web as a part of X-Wallet project. It is used to determine how the Admin Web should be done.

## Intended Audience

This document is intended for developer, project manager, business analyst, tester, product owner and project sponsor.

## Scope

This document only includes functional requirements and describes how a function works by describing the Validation, Rule, Screen Flow, Mockup Design and User Steps to interact with interfaces on Admin Web.

## References

Business Requirement Document (BRD): [X-Wallet - BRD version 1.0.docx](https://docs.google.com/document/d/1Kcf-WqY69fsbod5iDADD4V-ld2M3Ee2w/edit?usp=sharing&ouid=113125246684529376806&rtpof=true&sd=true)

Mockup: <https://app.moqups.com/EZw8qokQoi/view/page/ad64222d5>

# Overall Description

## Actor

| **Actor** | **Definition** |
| --- | --- |
| Admin | The persons who manage user accounts. |

## Function List

| **FR No** | **Interface** | **Actor** | **Module** | **Function List** | **Priority** |
| --- | --- | --- | --- | --- | --- |
| FR062 | Admin Web | Admin | Access | Login | 1 |
| FR063 | Admin Web | Admin | Access | Logout | 1 |
| FR064 | Admin Web | Admin | Access | Forgot Password | 1 |
| FR065 | Admin Web | Admin | Accounts | View Accounts List | 1 |
| FR066 | Admin Web | Admin | Accounts | Search/Filter Accounts | 1 |
| FR067 | Admin Web | Admin | Accounts | Add Account | 1 |
| FR068 | Admin Web | Admin | Accounts | View Account Details | 1 |
| FR069 | Admin Web | Admin | Accounts | Edit Account Details | 1 |
| FR070 | Admin Web | Admin | Accounts | Delete Account | 1 |

# Common Rules

**Button Enablement:**

In some screens, the button that redirects the user to the next screen in the process, will be disabled by default:

Graphical user interface, text, application

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Once the buttons are disabled, the user cannot interact with the buttons.

To enable the button, the user must fill all required fields:

Timeline

Description automatically generated with low confidence

When the buttons are enabled, the user can click on the buttons. Then the process can be continued.

**Top Menu:**



| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Logo | No | Click on: Go to the Account List Screen |
| Accounts | Text link | No | Click on: Go to the Account List Screen |
|  | Button | No | Click on: Log Out |

# Messages

## Error Messages

| **Code** | **Type** | **Content** |
| --- | --- | --- |
| E014 | Text under field | Please provide a valid email address |
| E015 | Pop-up | The provided email or password is incorrect. Please try again. |
| E016 | Text under field | Invalid email |
| E017 | Text under field | Passwords do not match |
| E018 | Text under field | Email has been used |
| E019 | Text under field | The provided password is incorrect |

## Success Messages

| **Code** | **Type** | **Content** |
| --- | --- | --- |
| S006 | Pop-up | Password reset email has been sent. Please click the link in your email to begin the reset process |
| S007 | Pop-up | Your password has been reset successfully |
| S008 | Pop-up | New account has been added |
| S009 | Pop-up | Account has been updated |
| S010 | Pop-up | Password has been reset successfully |
| S011 | Pop-up | Account has been deleted |

# Detail Description

## FR062 – Log In

**Screen 1 – Log In**

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Logo | No | Click on: Go to the Log In Screen |
| Email Address | Email | Yes | Validate email format. |
| Password | Text | Yes | Rule:   * Max length: 256 characters * Allow to enter all characters |
| Graphical user interface, application  Description automatically generated | Button | No | Click on: Please refer to the **Acceptance Criteria** below |
| Forgot password? | Text link | No | Click on: Go to the Forgot Password Screen |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin accesses the platform. Admin is redirected to the Log In Screen  **Step 2:** Admin enters email and password  **Step 3:** Admin clicks on the Log In button  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – Invalid email format:

**Given** Admin inputted invalid email format

**When** Admin clicks on the Log In button

**Then** the platform will show the E014 error message

**E014 – Invalid Email Address**

Graphical user interface, text, application

Description automatically generated

#2 – Valid email format, Incorrect email or password:

**Given** Admin inputted valid email format

And Admin inputted incorrect email and password

**When** Admin clicks on the Log In button

**Then** the platform will show the E015 error message

**E015 – Incorrect Email or Password**

Graphical user interface, application, website

Description automatically generated

#3 – Valid email format, Correct email and password:

**Given** Admin inputted valid email format

And Admin inputted correct email and password

**When** Admin clicks on the Log In button

**Then** Admin will be successfully logged in

And the platform will redirect Admin to the Account List Screen (Home page)

## FR063 – Log Out

**Log Out button**

Graphical user interface, application

Description automatically generated

| **Pre-condition** | Admin has logged in |
| --- | --- |
| **User steps** | Two ways to log out:  Admin clicks on the Log Out button on the top menu; or  Admin closes all X-Wallet browser tabs or windows  After logging out, the user will be redirected to the Log In Screen. |

## FR064 – Forgot Password

**Screen 2 – Forgot Password**

Graphical user interface, text

Description automatically generated

Graphical user interface, timeline

Description automatically generated with medium confidence

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Email Address | Email | Yes | Validate email format. |
|  | Button | No | Click on: Please refer to the **Acceptance Criteria** below |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on the Forgot Password link on the Log In Screen. The system will redirect to the Forgot Password Screen  **Step 2:** Admin enters email associated with the account  **Step 3:** Admin clicks on the Reset Password button  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – Invalid email format:

**Given** Admin inputted invalid email format

**When** Admin clicks on the Reset Password button

**Then** the platform will show the E016 error message

**E016 – Invalid Email Address**

Shape

Description automatically generated

#2 – Valid email format, Incorrect email:

**Given** Admin inputted valid email format

And Admin inputted incorrect email

**When** Admin clicks on the Reset Password button

**Then** the platform will show the E016 error message

#3 – Valid email format, Correct email:

**Given** Admin inputted valid email format

And Admin inputted correct email

**When** Admin clicks on the Reset Password button

**Then** the platform will redirect Admin to the Log In Screen

And the system will send an email to the inputted address (the email format will be attached below)

And the platform will show the S006 success message

**S006 – Password Reset Email Sent**



| **Email Format** | **Example** |
| --- | --- |
| <X-Wallet Logo>  **Password Reset**  Hi Admin,  If you did not request a password reset, please disregard this message. Otherwise, click the button below to complete the password reset process.  Click Here to Reset Your Password  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ©2021 X-Wallet. All rights reserved.  Sent at: <Date & Time> |  |

The user clicks on the Reset Password link. Then the user will be redirected to Reset Password Screen.

**Screen 3 – Reset Password**

Graphical user interface, application

Description automatically generated

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| New Password, Confirm Password | Password input | Yes | Admin inputs the new password and confirm password.  Rule:   * Max length: 256 characters * Allow to enter all characters * These passwords must match |
|  | Button | No | Click on: Please refer to the **Acceptance Criteria** below |
| Log In | Text link | No | Click on: Go to the Log In Screen |

| **Pre-condition** | Admin has not logged in  User clicks on the reset password link in the email |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on the Reset Password link in the password reset email. The system will redirect to the Reset Password Screen  **Step 2:** Admin enters new password and confirm password  **Step 3:** Admin clicks on the Reset Password button  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – New passwords do not match:

**Given** the new passwords did not match

**When** Admin clicks on the Reset Password button

**Then** the platform will show the E017 error message

**E017 – Passwords do not match**

Graphical user interface, text, application, email

Description automatically generated

#2 – New passwords match:

**Given** the new passwords match

**When** Admin clicks on the Reset Password button

**Then** the platform will redirect Admin to the Log In Screen

And the platform will successfully update the new password

And the platform will show the S007 success message

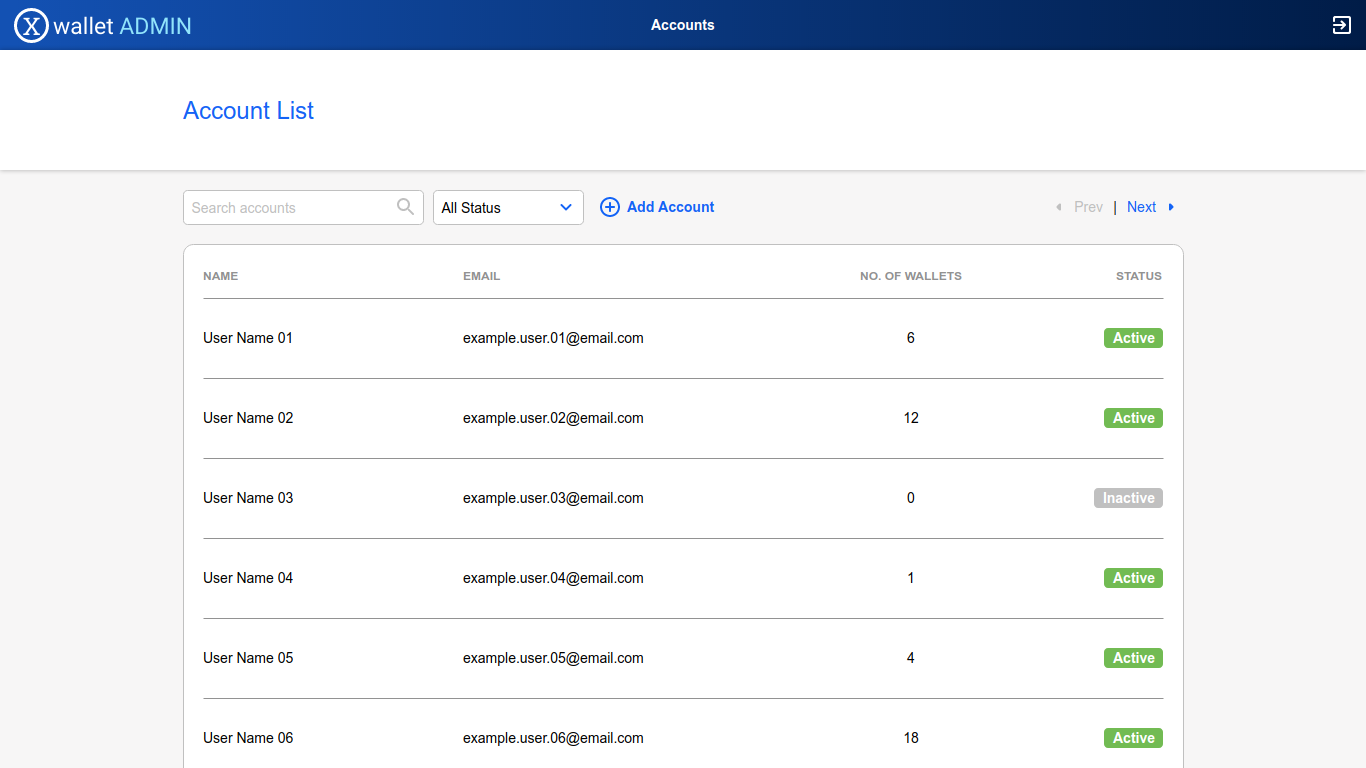
**S007 – Password Reset Successfully**

Graphical user interface, text, chat or text message

Description automatically generated

## FR065 – View Account List

**Screen 4 – Account List**



| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Search box | No | Admin can search for:   * Username (Partial match) * Email (Partial match)   For details, please refer to FR066. |
|  | Combo box | No | Admin can select an option to filter the accounts by status:   * All Status * Active * Inactive   For details, please refer to FR066. |
|  | Button | No | Click on: Go to the Add New Account Screen |
|  | Text link | No | Use to navigate across the pages when there are too many results on the list |

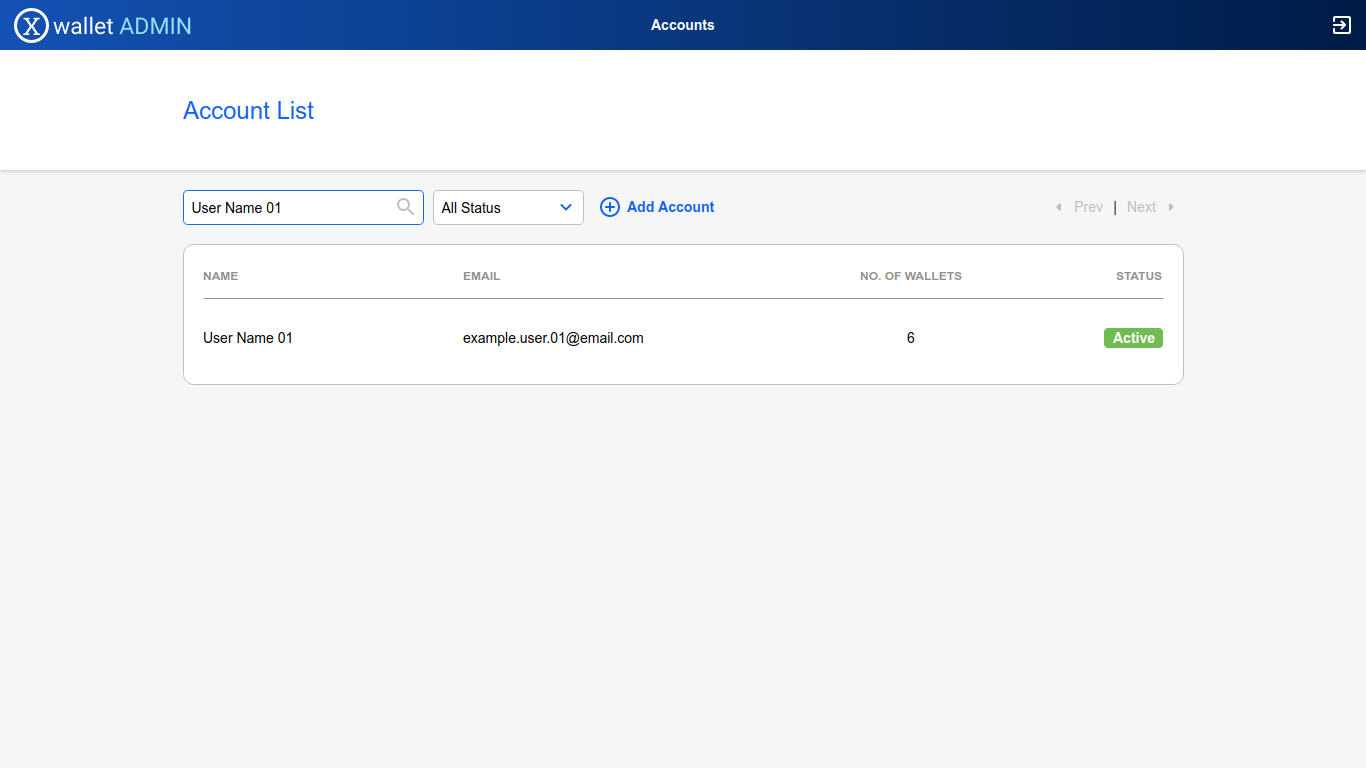
The table displays all user accounts, sorted by creation time, from the newest to the oldest.

When Admin clicks on a row, the platform will redirect Admin to the account details (Please refer to FR068).

| **No.** | **Column Name** | **Format** | **Description** |
| --- | --- | --- | --- |
| 1 | Name | Text | Display the account’s username |
| 2 | Email | Text | Display the account’s email address |
| 3 | No. of Wallets | Text | Display the number of wallets that the account has |
| 4 | Status | Text | Display the status of the account (Active or Inactive) |

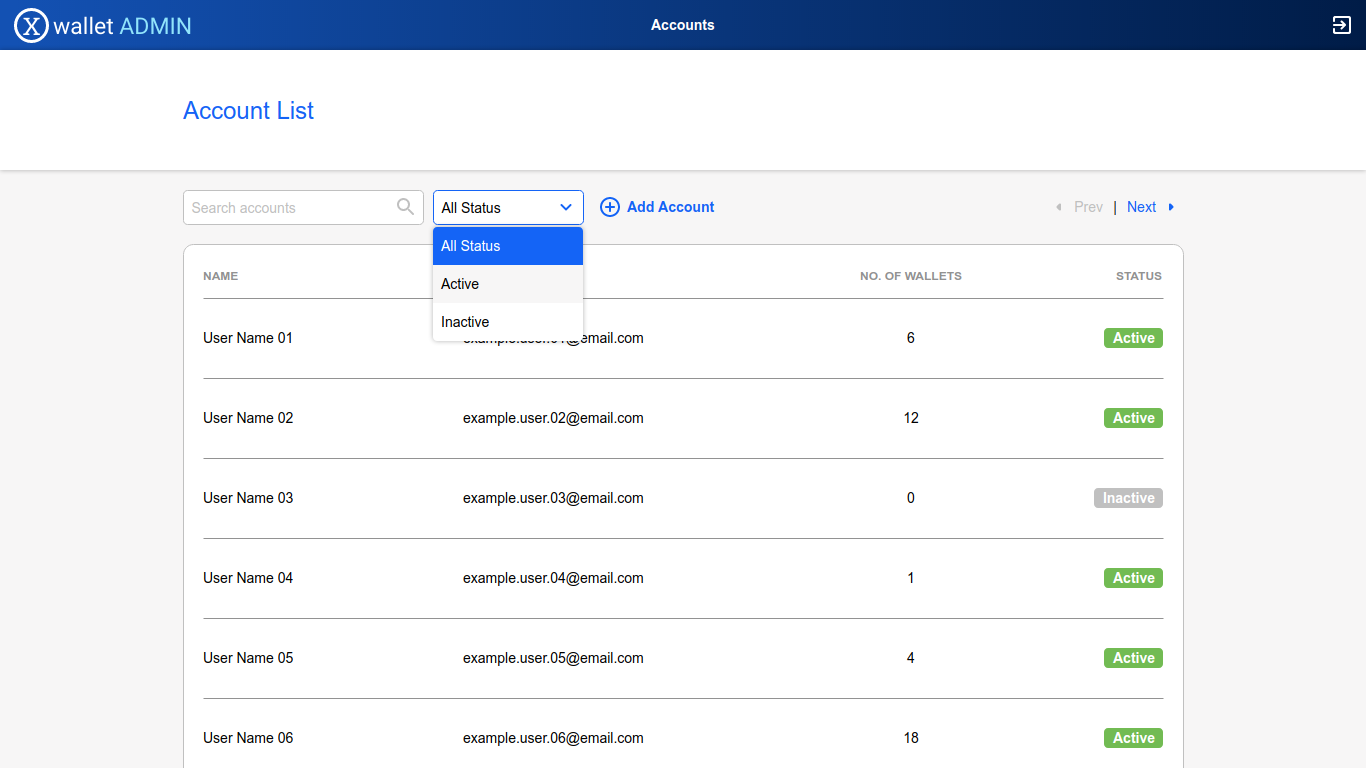
## FR066 – Search/Filter Accounts

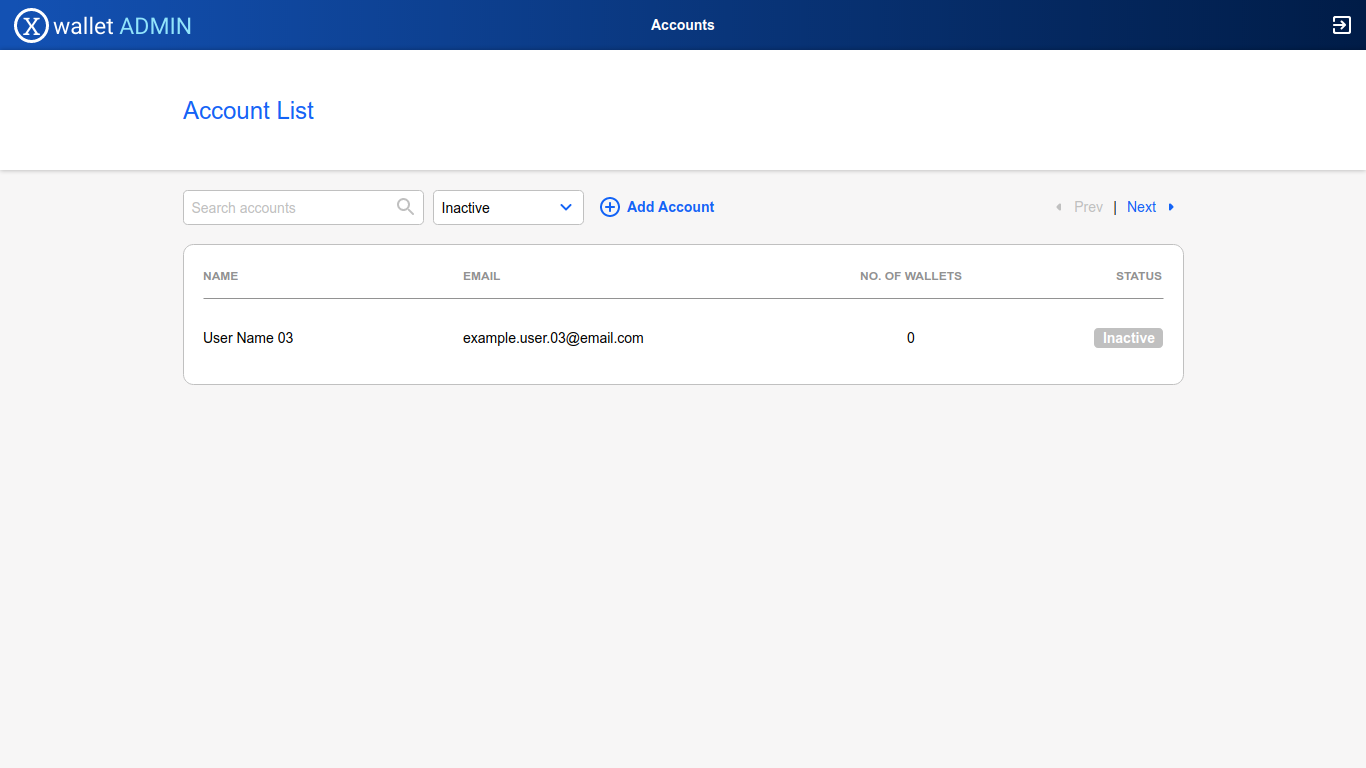
**Screen 5 – Search Accounts**



| **Pre-condition** | Admin has logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin inputs keyword in the search box, then click on the search icon or press Enter.  **Step 2:** The platform shows the search result. |

**Screen 6 – Filter Accounts**





| **Pre-condition** | Admin has logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin selects an option to filter the accounts by status  **Step 2:** The platform shows the filtered result. |

## FR067 – Add Account

**Screen 7 – Add New Account**

Graphical user interface, website

Description automatically generated

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Name | Text input | Yes | Admin inputs the account’s username |
| Email Address | Text input | Yes | Admin inputs the account’s email address.  The new password will be generated randomly but comply with the following rules:   * Has 16 characters * Allow all characters |
|  | Button | No | Click on: Please refer to the **Acceptance Criteria** below |

| **Pre-condition** | Admin has logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin inputs Username and Email Address of the new account.  **Step 2:** Admin clicks on the Add Account button.  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – Invalid email format:

**Given** Admin inputted invalid email format

**When** Admin clicks on the Add Account button

**Then** the platform will show the E014 error message

#2 – Valid email format, Used email:

**Given** Admin inputted valid email format

And Admin inputted a used email

**When** Admin clicks on the Add Account button

**Then** the platform will show the E018 error message

**E018 – Used Email**

A picture containing shape

Description automatically generated

#3 – Valid email format, Unused email:

**Given** Admin inputted valid email format

And Admin inputted an unused email

**When** Admin clicks on the Add Account button

**Then** the platform will successfully create the new account (the password will have 16 characters and be generated randomly)

And the platform will redirect Admin to the Account List Screen

And the platform will show the S008 success message

And the platform will send an email to the new account’s email address (the email format will be attached below)

**S008 – New account added**

Text

Description automatically generated

| **Email Format** | **Example** |
| --- | --- |
| <X-Wallet Logo>  **Welcome**  Hi <Username>,  Welcome to X-Wallet. Please refer to the information below for your account details:  **Name:** <Username>  **Email address:** <Email>  **Password:** <Password>  Please log in your X-Wallet account and change the password as soon as possible.  Thank you,  X-Wallet team  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ©2021 X-Wallet. All rights reserved.  Sent at: <Date & Time> |  |

## FR068 – View Account Details

**Screen 8 – Account Details (Active)**

Graphical user interface, application, email

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| User Name | Text input | Yes | Display the account’s username.  Admin can edit this field. |
| Email Address | Text input | Yes | Admin inputs the account’s email address.  Admin can edit this field. |
|  | Button | No | Disabled by default.  Enabled when Admin edits the above fields.  Please refer to FR069 |
| Change Password | Text link | No | Click on: Show the Authentication Pop-up  Please refer to FR069 |
|  | Text | No | Display the account’s status (Active or Inactive) |
|  | Text | No | Display the number of wallet that the account has |
|  | Text | No | Display the date and time that the account was created |
|  | Text | No | Display the latest date and time that the account was modified |
| Deactivate account | Text link | No | Disabled by default.  Enabled when the account has no wallet and fund. |
| Delete account | Text link | No | Disabled by default.  Enabled when the account is deactivated. |

If the account has no wallet and fund, the Deactivate Account link will be enabled.

The Account Details Screen will be displayed by the No Wallet Screen below.

**Screen 9 – Account Details (Active, No Wallet)**

Graphical user interface, application, email

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Deactivate account | Text link | No | Enabled when the account has no wallet and fund.  Click on: Please refer FR069 |

If the account is deactivated, the Deactivate Account section will be hidden. The Activate Account section will be shown. The Delete Account link will be enabled.

The Account Details Screen will be displayed by the Inactivate Account Screen below.

**Screen 10 – Account Details (Inactive)**

Graphical user interface, application, email

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Activate account | Text link | No | Click on: Please refer FR069 |
| Delete account | Text link | No | Disabled by default.  Enabled when the account is deactivated.  Click on: Please refer FR069 |

## FR069 – Edit Account Details

Admin can:

1. Change the account’s password
2. Deactivate the account
3. Activate the account
4. Change the account’s username and email address

When Admin does 1, 2 or 3, Admin will be required to authenticate first. The authentication will be described below.

When Admin does 4, the authentication will not be required.

### Admin Authentication

Every time the Admin Authentication is needed (i.e., when Admin clicks on Change Password, Deactivate Account, Delete Account, etc.), the Authenticate Pop-up will be shown.

**Screen 11 – Authentication Pop-up**

Graphical user interface, text, application

Description automatically generated

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Password | Password input | Yes | Admin inputs his admin account password |
|  | Button | No | Click on: Please refer to the **Acceptance Criteria** below |
| Cancel | Text link | No | Click on: Go back to the Account Details Screen |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on the function link. The Authentication Pop-up will be shown.  **Step 2:** Admin enters his admin account password  **Step 3:** Admin clicks on the Authenticate button  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – Incorrect password:

**Given** Admin inputted incorrect password

**When** Admin clicks on the Authenticate button

**Then** the platform will show the E019 error message

**E019 – Incorrect Password**

Shape, rectangle

Description automatically generated with medium confidence

#2 – Correct password:

**Given** Admin inputted correct password

**When** Admin clicks on the Authenticate button

**Then** the platform will redirect Admin to the next screen

### Change Password

**Screen 12 – Password Reset Confirmation**

Graphical user interface, application

Description automatically generated

**S010 – Password reset successfully**

Graphical user interface, text, application, email

Description automatically generated

Graphical user interface, text, application, email

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Confirm | Button | No | Click on: The platform will generate a new password and update the account’s password automatically.  The new password will be generated randomly but comply with the following rules:   * Has 16 characters * Allow all characters   The new password will be sent to the account owner’s email address (the email format will be attached below).  Then the S010 success message which contains the new password will pop up. |
| Cancel | Text link | No | Click on: Go back to the Account Details Screen |

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
| Show | Text link | No | Show the password |
| Hide | Text link | No | Hide the password |
| Close | Text link | No | Click on: Go back to the Account Details Screen |

| **Email Format** | **Example** |
| --- | --- |
| <X-Wallet Logo>  **Password Reset**  Hi <Username>,  X-Wallet has reset your account password. Please refer to the information below:  **New Password:** <Password>  *Note: This password may not be secure enough for long term use.*  Please consider logging into your account and changing your password as soon as possible.  Thank you,  X-Wallet team  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  ©2021 X-Wallet. All rights reserved.  Sent at: <Date & Time> |  |

### Deactivate Account

**Screen 13 – Deactivate Account Confirmation**

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Button | No | Click on: Deactivate the account |
| Cancel | Text link | No | Click on: Go back to the Account Details Screen |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on Deactivate Account  **Step 2:** The platform displays the Deactivate Account Confirmation pop-up  **Step 3:** Admin clicks on the Confirm button  **Step 4:** The platform deactivates the account, updates the account’s status to “Inactive”, then redirects Admin to the Account Details Screen (Inactive) and shows the S009 success message. |

**S009 – Account updated**

Text

Description automatically generated with medium confidence

### Activate Account

**Screen 14 – Activate Account**

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Button | No | Click on: Activate the account |
| Cancel | Text link | No | Click on: Go back to the Account Details Screen |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on Activate Account  **Step 2:** The platform displays the Activate Account Confirmation pop-up  **Step 3:** Admin clicks on the Confirm button  **Step 4:** The platform activates the account, updates the account’s status to “Active”, then redirects Admin to the Account Details Screen (Active, No wallet) and shows the S009 success message. |

**S009 – Account updated**

Text

Description automatically generated with medium confidence

### Change Username and Email address

**Screen 15 – Change Username and Email Address**

Graphical user interface, application, email

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Button | No | Click on: Please refer to the **Acceptance Criteria** below |

| **Pre-condition** | Admin has logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin edits the Username field or the Email Address  **Step 2:** The Update button is enabled  **Step 3:** Admin clicks on the Update button  For the events that take place after the above steps, please refer to the **Acceptance Criteria** below. |

**Acceptance Criteria:**

#1 – Invalid email format:

**Given** Admin inputted invalid email format

**When** Admin clicks on the Update button

**Then** the platform will show the E014 error message

**E014 – Invalid email format**

Graphical user interface, text, application

Description automatically generated

#2 – Valid email format, Used email:

**Given** Admin inputted valid email format

And Admin inputted a used email

**When** Admin clicks on the Update button

**Then** the platform will show the E018 error message

**E018 – Used Email**

A picture containing shape

Description automatically generated

#3 – Valid email format, Unused email:

**Given** Admin inputted valid email format

And Admin inputted an unused email

**When** Admin clicks on the Update button

**Then** the platform will successfully update the account

And the platform will show the S009 success message

And the platform will update the “Last update on” field on the Account Details Screen

**S009 – Account updated**

Text

Description automatically generated with medium confidence

## FR070 – Delete Account

**Screen 16 – Delete Account Confirmation**

Graphical user interface, application

Description automatically generated

| **Field** | **Format** | **Require** | **Description** |
| --- | --- | --- | --- |
|  | Button | No | Click on: Delete the account |
| Cancel | Text link | No | Click on: Go back to the Account Details Screen |

| **Pre-condition** | Admin has not logged in |
| --- | --- |
| **User steps** | **Step 1:** Admin clicks on Delete Account  **Step 2:** The platform displays the Delete Account Confirmation pop-up  **Step 3:** Admin clicks on the Delete button  **Step 4:** The platform deletes the account, then redirects Admin to the Account List Screen and shows the S011 success message. |

**S011 – Account Deleted**

Graphical user interface, text

Description automatically generated with medium confidence