

IN SCOPE

- User account creation and management will be performed by an administrator from the admin panel, including passwords
- All uploaded documents will be encrypted by using blockchain technology
- Users should have registered phone number in system to add two steps authentication in order to improve system security
- The site data must be secure from external sources, e.g., HTTPS and data encryption protocols
- Website must be responsive to be viewable on multiple devices

FUNCTIONAL RISKS

- User may forget password or change phone number, in this case it is presumed that user will contact administrator to change phone number in a system
- Logged in User will be able to access restricted parts of the site, changing fundamental aspects of the site or introducing malware, leading to misrepresentation.
- Site visitor (not logged in) will be able to access sections of the site reserved for logged in users, reducing credibility of the site.
- Users will not be able to access the site on mobile devices, reducing the overall impact of the site

USE CASES ADMIN

1. [Registration in the project](#)
2. [A user loads blockchain project for the first time on a desktop, tablet or mobile through a browser](#)
3. [An admin first login to the system](#)
4. [Create user screen](#)
5. [Import users](#)
6. [List of users](#)
7. [The Admin creates first Safe Chain](#)
8. [The Admin checking added steps](#)
9. [The Admin may edit steps of chain](#)
10. [View thread for one chain](#)
11. [Admin dashboard](#)

USE CASES USER

12. [Login procedure for the user](#)
13. User check Safechain(s)
14. Details of user's Safe chain
15. Document's review

Use Case 1 - Registration in the project

All admin accounts are registered by product owner, for admin registration necessary fields are:

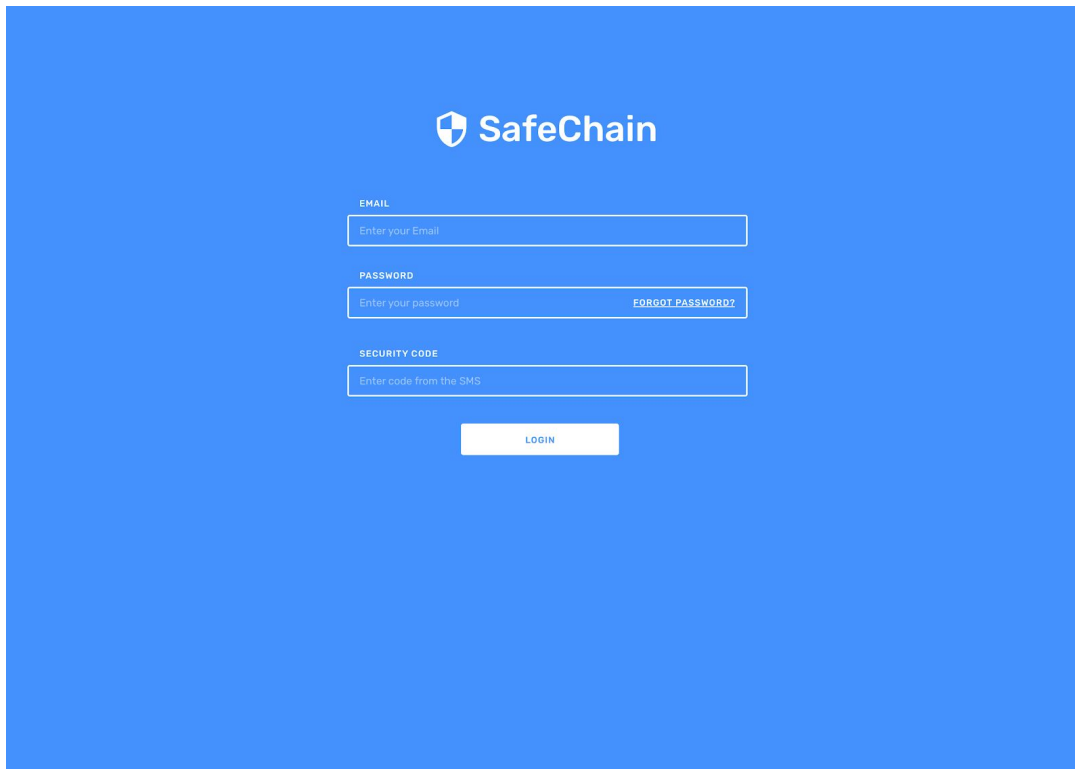
- Name (first and last)
- Email
- Phone number

All users accounts can be registered by admin or imported to the project by admin and will have following details:

- Name (first and last)
- Email
- Phone number

Use Case 2 - A user or Admin loads Safe Chain for the first time on a desktop, tablet or mobile through a browser

Login Page

The image shows a login interface for 'SafeChain' on a solid blue background. At the top center is the 'SafeChain' logo, which consists of a white shield icon followed by the text 'SafeChain' in white. Below the logo, there are three input fields, each with a label above it: 'EMAIL' with the placeholder 'Enter your Email', 'PASSWORD' with the placeholder 'Enter your password' and a 'FORGOT PASSWORD?' link to its right, and 'SECURITY CODE' with the placeholder 'Enter code from the SMS'. At the bottom center of the form is a white rectangular button with the text 'LOGIN' in blue.

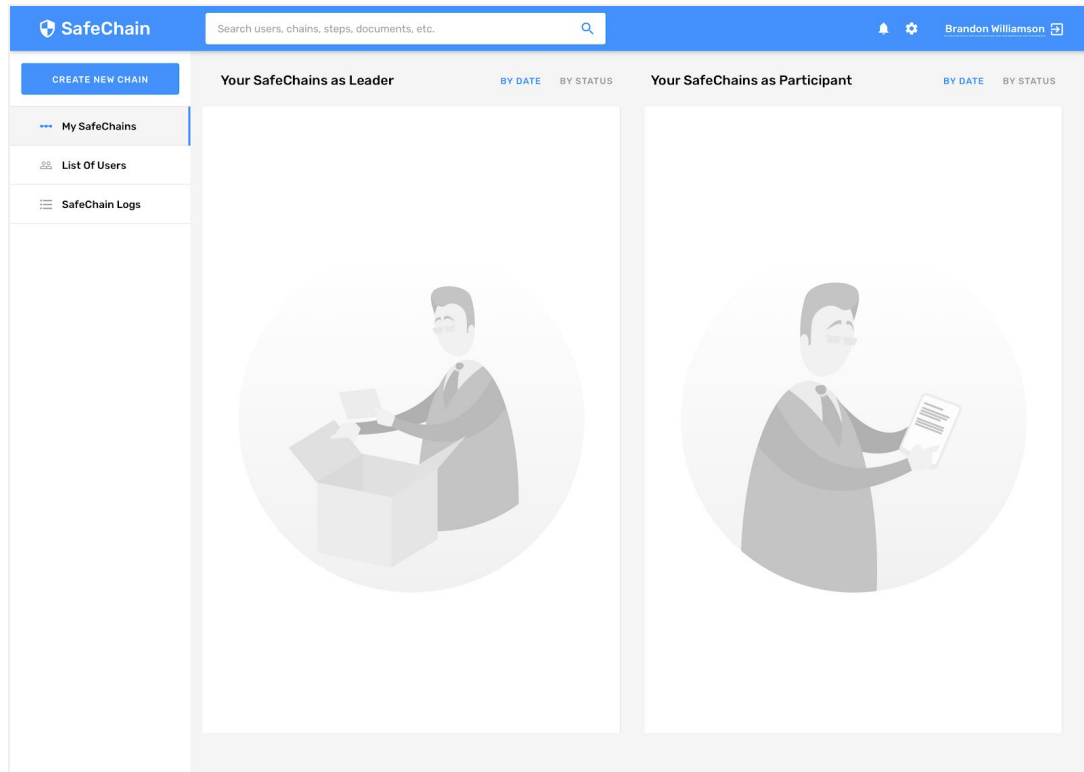
- Header will have logo of SafeChain, two fields:
 - Enter your email
 - Enter your password
- Button login

Actions:

Admin or user add email login provided and password related (all admin access credentials will be created from server side by product owner, admin may register authorized users), after adding these data and pressing login user will see “Enter SMS code fields” also user will receive SMS with code to the phone number that is registered and verified. SMS includes code, which user adds into an additional field to confirm identity.

Possible issues: SMS code could not work in case that external service will have technical issue or user will add wrong digits.

Use Case 3 - An admin first login to the system



When Admin login to the system for the first time there are no records for Safe Chains and no records for users available in a system.

An Admin sees following:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu with following sections:
 - My SafeChains
 - List of users
 - Safechain log
 - Create user button
- “Create new chain” button

Actions:

An Admin should start with creating or importing users. The Admin presses Add user button and leads to the proper section.

Use Case 4 - Create user screen

The screenshot shows the 'Add new user' screen in the SafeChain application. The interface includes a top navigation bar with the SafeChain logo, a search bar, and a user profile. A left sidebar contains a 'CANCEL' button and a menu with 'My SafeChains', 'List of Users' (selected), and 'SafeChain Logs'. The main content area is titled 'Add new user' and includes an 'IMPORT CSV' link. Below the title is a brief instruction and a link to a CSV example. The form contains several input fields: EMAIL, FIRST NAME, LAST NAME, PHONE NUMBER, COMPANY NAME (OPTIONAL), and DESCRIPTION (OPTIONAL). At the bottom, there is a checkbox for 'this user is an Admin' and a 'SAVE' button.

SafeChain Search users, chains, steps, documents, etc. Brandon Williamson

ADD NEW USER [IMPORT CSV](#)

Fill fields with the user's information or you can add multiple users at once with the CSV importing. [Download the CSV example](#)

EMAIL
Enter the user's email

FIRST NAME
Enter user's first name

LAST NAME
Enter user's last name

PHONE NUMBER
Enter user's phone number

COMPANY NAME (OPTIONAL)
Enter user's company

DESCRIPTION (OPTIONAL)
Add user's bio or other description

☐ this user is an Admin

SAVE

Create user screen consist of:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu with following sections:
 - My safechains
 - List of users
 - Cancel button
- New user section:
 - Obligatory fields:
 - First and last name
 - Email
 - Phone number
 - Optional fields
 - Company name

■ Description

- Checkbox “This user is an Admin”
- Import users button
- Save button

Actions:

Admin should fill out all mandatory fields to save new user, if one of mandatory fields are not added, Save button would not be active to save changes. Mandatory fields are needed for further 2 factor authentication of users and other admins created.

Optional fields will help to identificate users and describe them.

If Admin presses checkbox “Admin” role admin should be added to a new created user.

Import users button pressing will lead to a proper functionality.

After saving result Admin will forward to List of users Screen.

Use Case 5 - Import users

By pressing “Import users button” admin will see pop-up which allow to choose xls file with presumed structure to upload list of users. In the document will be same mandatory and optional fields.

Error handling: If the file is not set correctly the Admin should get the notification that the file has errors and can to be processed

Use Case 6 - List of users, Admin may manage users inside this section

Brandon Williamson

ADD USER

My SafeChains

List of Users

SafeChain Logs

List of Users

EXPORT TO CSV

You can add new users, edit the information about them, activate and deactivate or delete users permanently from the system.

NAME AND ROLE	ACTIVE	
Cole Reid admin	<input checked="" type="checkbox"/>	CLOSE
Lucille Logan admin	<input checked="" type="checkbox"/>	VIEW
Ollie Turner user	<input checked="" type="checkbox"/>	VIEW
Eugenia Lloyd user	<input checked="" type="checkbox"/>	VIEW
Devin Santos user	<input checked="" type="checkbox"/>	VIEW
Philip Morrison user	<input checked="" type="checkbox"/>	VIEW
Francis Reed user	<input checked="" type="checkbox"/>	VIEW
Bertie McCoy user	<input checked="" type="checkbox"/>	VIEW
Lester McGuire user	<input type="checkbox"/>	VIEW
Abbie Hall user	<input type="checkbox"/>	VIEW
Alvin Parker user	<input type="checkbox"/>	VIEW
Joe Curtis user	<input type="checkbox"/>	VIEW

EMAIL

FIRST NAME

LAST NAME

PHONE NUMBER

COMPANY NAME (OPTIONAL)

DESCRIPTION (OPTIONAL)

As a business owner or manager, the decision to opt for offshore software development can be difficult. As anyone who has experience knows, there are advantages and disadvantages to outsourcing software development.

☒ this user is an Admin

SAVE

List of users screen consist of:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu with following sections:
 - My SafeChains
 - List of users
 - Safechain log
 - Create user button
- Exact list of users with status:
 - First name
 - Last name
 - Role

Would be good to add filters to sort users alphabetical, ASC/DESC, by date of creation

- Edit user section:
 - Obligatory fields:
 - First and last name

- Email
 - Phone number
- Optional fields
 - Company name
 - Description
- Checkbox “Admin”
- Import users button
- Export users button
- Save button
- Cancel button

Possible issues:

When Admin clicks on ‘Save’ button fields which are not set correctly or Obligatory fields are missing should be highlighted with red.

Delete user flow:

When Admin clicks on delete user he will see popup confirmation with text “Are you sure you want to delete this user” and Buttons ‘Delete’ and ‘No’.

Use Case 7 - The Admin inside the system and creates first SafeChain with first step

SafeChain Search users, chains, steps, documents, etc. Brandon Williamson

CANCEL

My SafeChains

List Of Users

SafeChain Logs

Create your SafeChain • Create Step
All fields are required. You should add step name, upload documents and add users with permissions to edit or/and approve this SafeChain step.

SAFECHAIN NAME
With the first step, you should add name for the whole chain

STEP NAME
Type the step name. You can change it later.

UPLOAD DOCUMENTS TO THE STEP
CHOOSE DOCUMENTS TO UPLOAD
You can choose multiple documents on the your harddrive

INVITE USERS TO STEP
Start type the Email address of participant
All invited participants will have permission to view uploaded documents

By pressing on 'Create SafeChain' button Admin sees 'Create your Safe chain' page with following fields:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logou
- Safechain name
- Step name - text fields
- Documents - with option to upload file
 - Required checkmark
- Invite users to view or upload documents - with drop-down to choose users
 - Read checkmark
 - Write checkmark
- Invite users to validate documents
 - Required checkmark

'Save new step' button

Cancel button

Actions:

Admin should add all fields and set settings for the step to save new SafeChain with first step.

Possible issues:

When Admin clicks on 'Save new step' button fields which are not set correctly or Obligatory fields are missing should be highlighted with red.

Example of the filled out form:

SafeChain

Search users, chains, steps, documents, etc.

Brandon Williamson

CANCEL

My SafeChains

List Of Users

SafeChain Logs

Create your SafeChain • Create Step #1

All fields are required. You should add step name, upload documents and add users with permissions to edit or/and approve this SafeChain step.

SAFECHAIN NAME

Buying Combine Harvester

STEP NAME

Sending request

UPLOAD DOCUMENTS TO THE STEP

Checklist.pdf

Requirements

Standarts

Specification

CHOOSE DOCUMENTS TO UPLOAD

You can choose multiple documents on the your harddrive

INVITE USERS TO STEP

torp_jonas@pollich.net

All invited participants will have permission to view uploaded documents

NAME OF PARTICIPANT	CAN EDIT	CAN APPROVE
alexandrine_cummings@swift.io	<input type="checkbox"/>	<input type="checkbox"/>
olson_jakob@yahoo.com	<input type="checkbox"/>	<input type="checkbox"/>
matt_dibbert@hotmail.com	<input type="checkbox"/>	<input type="checkbox"/>
stefan_will@yahoo.com	<input type="checkbox"/>	<input type="checkbox"/>

SEND

☐ Add next step after sending

Use Case 8 - The Admin checking added steps

The screenshot displays the 'Buying Combine Harvester' SafeChain interface. On the left, a sidebar contains a 'CREATE NEW CHAIN' button and a menu with 'My SafeChains', 'List Of Users', and 'SafeChain Logs'. The main content area shows the chain title and a description: 'There is all steps in the your SafeChain. You can edit users permissions and attachments in the any step.' Below this is a table with three columns: 'SHIPMENTS STEPS', 'DOCUMENT REQUIRED', and 'USERS INVITED'.

SHIPMENTS STEPS	DOCUMENT REQUIRED	USERS INVITED
1 Sending request APPROVED	4 documents uploaded (72 MB)	stefan_will@yahoo.com, matt_dibbert@hotmail.com, olson_jakob@yahoo.com, alexandrine_cummings@swift.io
2 Invoice 25% pre-payment APPROVED	2 documents uploaded (25 MB)	ernestina_mcclure@yahoo.com, abernathy_dahlia@einar.us, emser.liza@hotmail.com, dejah_russel@brady.me View all 12 participants...
3 Certificates IN PROGRESS	5 documents uploaded (104 MB)	ernestina_mcclure@yahoo.com, abernathy_dahlia@einar.us, emser.liza@hotmail.com, dejah_russel@brady.me View all 12 participants...

At the bottom of the main content area, there are two buttons: 'ADD NEW STEP' and 'VIEW THREADS'.

Added steps screen consist of:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu with following sections:
 - My SafeChains
 - List of users
 - Safechain log
 - Create user button
- View threads button
- Name of exact Safechain chosen
- Settings steps and users to a chain part
 - List of steps
 - Status of each step
 - Documents required
 - Users invited
- Add new step button
- Save button

Actions:

Add new step button will lead to Add new chain step functionality

By pressing at the particular step admin may edit it.

Admin may edit each step of the chain by pressing edit button.

Use Case 9 - The Admin may edit steps

Cancel

My SafeChains

List Of Users

SafeChain Logs

Edit step

All fields are required. You should add step name, upload documents and add users with permissions to edit or/and approve this SafeChain step.

STEP NAME

Sending request

UPLOAD DOCUMENTS TO THE STEP

Checklist.pdf

Requirements

Standarts

Specification

CHOOSE DOCUMENTS TO UPLOAD

You can choose multiple documents on the your harddrive

INVITE USERS TO STEP

torp_jonas@pollich.net

All invited participants will have permission to view uploaded documents

NAME OF PARTICIPANT	CAN EDIT	CAN APPROVE
alexandrine_cummings@swift.io	<input checked="" type="checkbox"/>	<input type="checkbox"/>
olson_jakob@yahoo.com	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
matt_dibbert@hotmail.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>
stefan_will@yahoo.com	<input type="checkbox"/>	<input checked="" type="checkbox"/>

SAVE

If Admin presses edit button for a step of Chain, will appear Edit step for a chain screen, which consist of following:

- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu
- View thread button
- Step name - text field
- New document category field

- Documents - with option to set number from and to
- Edit users to view or upload documents - with drop-down to choose users
 - Read checkmark
 - Write checkmark
 - Add user button
- Edit users to validate documents
 - Required checkmark
 - Add user button
- Save button

Actions:

Admin may open and check thread for the step of the chain. At this screen Admin may: add new type of the document (in v1 presumed to have two types of documents: Certificates and Photos).

By pressing view thread button opens [View thread screen](#)

set number of the documents which are allowed to be in this step of the chain.

By pressing Save button Admin will be directed to [created steps screen](#).

Use Case 10 - View Threads

The screenshot displays the 'SafeChain' application interface. The top navigation bar includes the 'SafeChain' logo, a search bar, and a user profile for 'Brandon Williamson'. The left sidebar contains a 'CREATE NEW CHAIN' button and a menu with 'My SafeChains', 'List Of Users', and 'SafeChain Logs'. The main content area is titled 'Buying Combine Harvester • View Thread' and features a table with the following data:

REFERENCE NUMBER	DATE	STATUS	STEP NAME
14568998	28 Feb 2017	Completed	Buying Combine Harvester
		In Progress	Thousands Now Adware Removal Who Never Thought They Could
		Missing Files	Download Anything Now A Days

The right sidebar displays document details for two categories: 'Photos' and 'Certificates'. The 'Photos' section shows two entries: 'Facts Why Inkjet Printing Is Very Appealing Compared To Ordinary Printing' by Effie Cortez (10:17PM, 25 May 2017) and 'How Does An Led Screen Work' by Fanny Lynch (02:54PM, 13 Nov 2017). The 'Certificates' section shows three entries: 'How To Stop Living Your Life On Autopilot' by Marie Reese (02:04AM, 08 Nov 2017), 'Motivation Letter For Work Abroad' by Jim Gibbs (06:17PM, 24 Jun 2017), and 'How Do I Know If I M Getting Any Of This Law Of Attraction Stuff' by Stella Harrington (11:14PM, 03 Jun 2017).

Consists of:

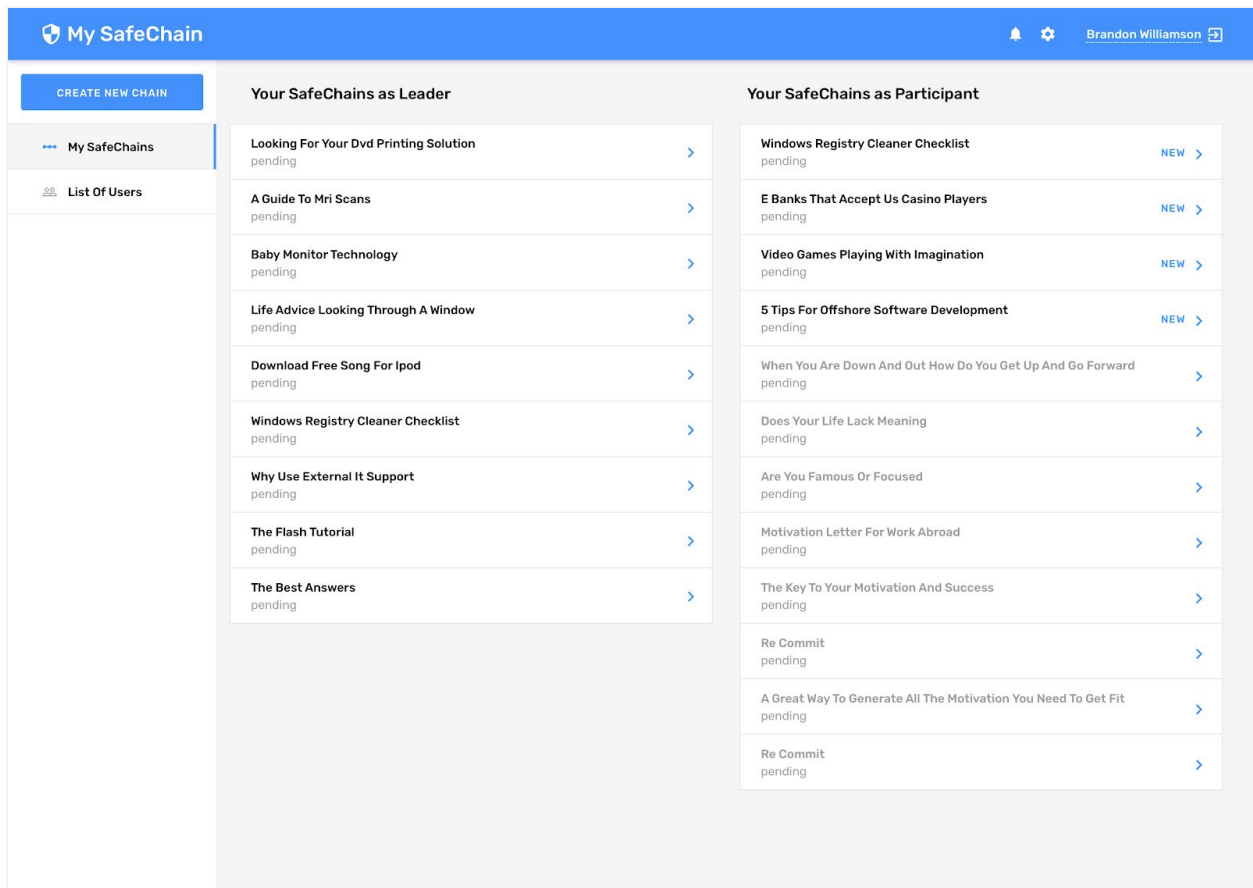
- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Side menu
- Thread for the particular chain created, including:
 - Reference number
 - Date
 - Documents
 - Save button

Actions:

Thread will be created automatically when new chain is created by Admin at backend.

Use Case 11 - Admin dashboard

My Safechains for admin



The screenshot displays the 'My SafeChain' admin dashboard. The top navigation bar is blue with the 'My SafeChain' logo, a bell icon, a gear icon, and the user name 'Brandon Williamson' with a profile icon. The main content area is divided into three sections. On the left is a sidebar with a blue 'CREATE NEW CHAIN' button and two menu items: 'My SafeChains' (selected) and 'List Of Users'. The central area is titled 'Your SafeChains as Leader' and contains a list of nine chains, each with a title, 'pending' status, and a right arrow. The right area is titled 'Your SafeChains as Participant' and contains a list of nine chains, each with a title, 'pending' status, and a right arrow. Some chains in the participant list have a 'NEW' badge.

Your SafeChains as Leader		Your SafeChains as Participant	
Looking For Your Dvd Printing Solution	pending	Windows Registry Cleaner Checklist	NEW
A Guide To Mri Scans	pending	E Banks That Accept Us Casino Players	NEW
Baby Monitor Technology	pending	Video Games Playing With Imagination	NEW
Life Advice Looking Through A Window	pending	5 Tips For Offshore Software Development	NEW
Download Free Song For Ipad	pending	When You Are Down And Out How Do You Get Up And Go Forward	
Windows Registry Cleaner Checklist	pending	Does Your Life Lack Meaning	
Why Use External It Support	pending	Are You Famous Or Focused	
The Flash Tutorial	pending	Motivation Letter For Work Abroad	
The Best Answers	pending	The Key To Your Motivation And Success	
		Re Commit	
		A Great Way To Generate All The Motivation You Need To Get Fit	
		Re Commit	

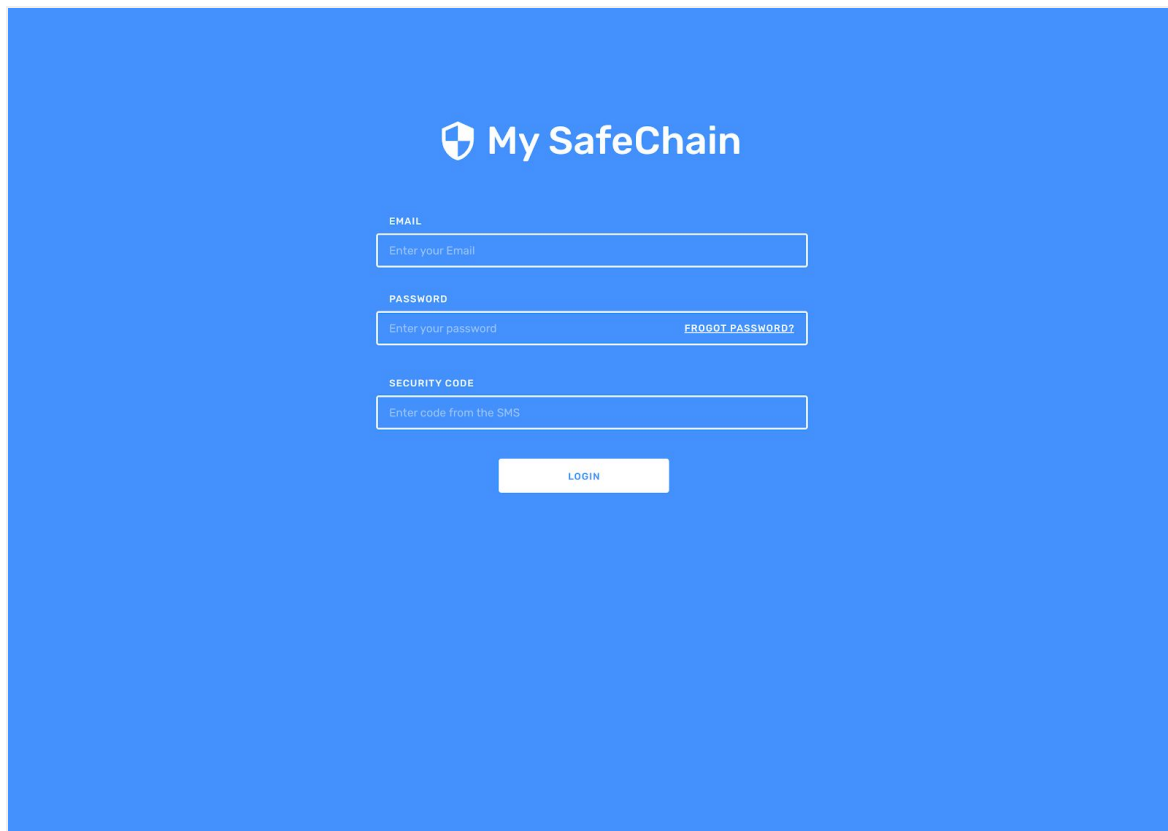
- Admin = logged in;
- Safechain logo
- Top menu with following:
 - Notifications
 - Settings
 - Name of Admin who work in a system
 - Logout
- Sidebar will have 3 sections.
 - My Safechains
 - List of users
 - Safechain log
 - Add user button
- Main section will consist list of Safechains as a leader section and Safechain as participant section and button “Create new chain” at the top.

Actions:

- by pressing My Safechains admin stays at the same section
- By clicking “List of users” section Admin will see List of users page
- By clicking add user button Admin will be forwarded to the section where it may be created user or imported list or users.
- By pressing the name of the particular Safe Chain admin will see details of it.
- By clicking create new chain user will be forwarded to Create new chain screen.
- When admin is pressing at one of the names of Safe Chains as a leader, admin will see [edit steps screen](#)

USER FLOW

Use Case 12 - User login

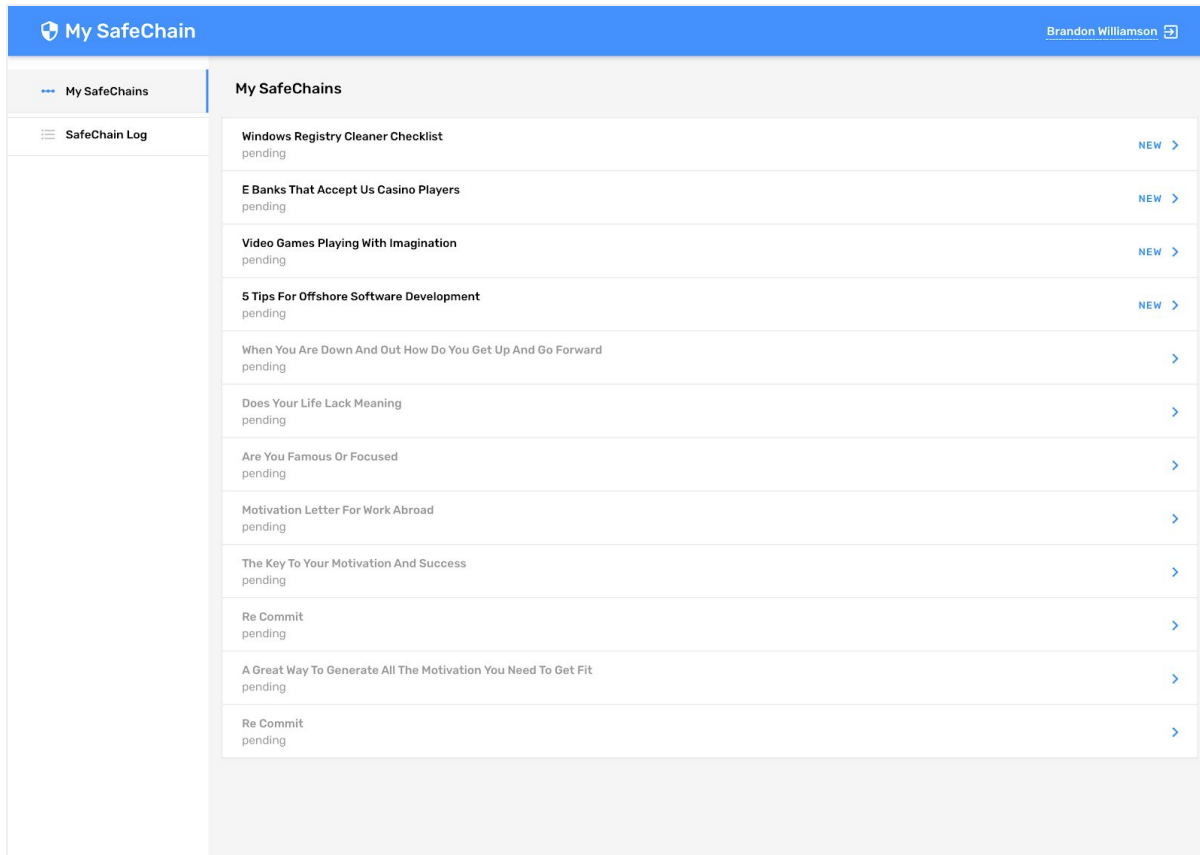
The image shows a login interface for 'My SafeChain' on a solid blue background. At the top center is the logo, which consists of a white shield icon with a cross inside, followed by the text 'My SafeChain' in white. Below the logo, there are three input fields stacked vertically. The first field is labeled 'EMAIL' and contains the placeholder text 'Enter your Email'. The second field is labeled 'PASSWORD' and contains the placeholder text 'Enter your password'. To the right of the password field is a link that says 'FORGOT PASSWORD?'. The third field is labeled 'SECURITY CODE' and contains the placeholder text 'Enter code from the SMS'. Below these three fields is a white rectangular button with the text 'LOGIN' in blue capital letters.

Action: To get into the system user will need to protect the same procedure as Admin process. User add email login provided and password related (all admin access credentials will be created from server side by product owner, admin may register authorized users), after adding these data and pressing login user will see “Enter sms code fields” also user will receive sms to the phone number that is registered and confirmed. Sms includes code, which user adds into an additional field to confirm identity.

Possible issues: sms code could not work in case that external service will have technical issue or user will add wrong digits.

Possible scenario: May be added button contact administrator to report an issue.

Use Case 13 - User check My Safechain(s)



- User = logged in;
- Safechain logo
- Top menu with following:
 - Name of User who work in a system
- Sidebar will have 2 sections.
 - My Safechains
 - SafeChain log

Under my Safechains user will see a list of chains where user is involved, new safe chains will be marked, by pressing on exact Safechain name user will see if the right side documents assigned to the Safechain and buttons approve decline.

If user presses approve button documents are going to the next stage, if user press decline button, will appear additional text field to add an explanation why the document will be declined.

My SafeChain

Brandon Williamson

My SafeChains

SafeChain Log

← My SafeChains • Windows Registry Cleaner Checklist

Motivation And Your Personal Vision An Unbeatable Force

certificate

VIEW >

Looking For Your Dvd Printing Solution

photo

VIEW >

Video Games Playing With Imagination

certificate

VIEW >

A Guide To Mri Scans

photo

VIEW >

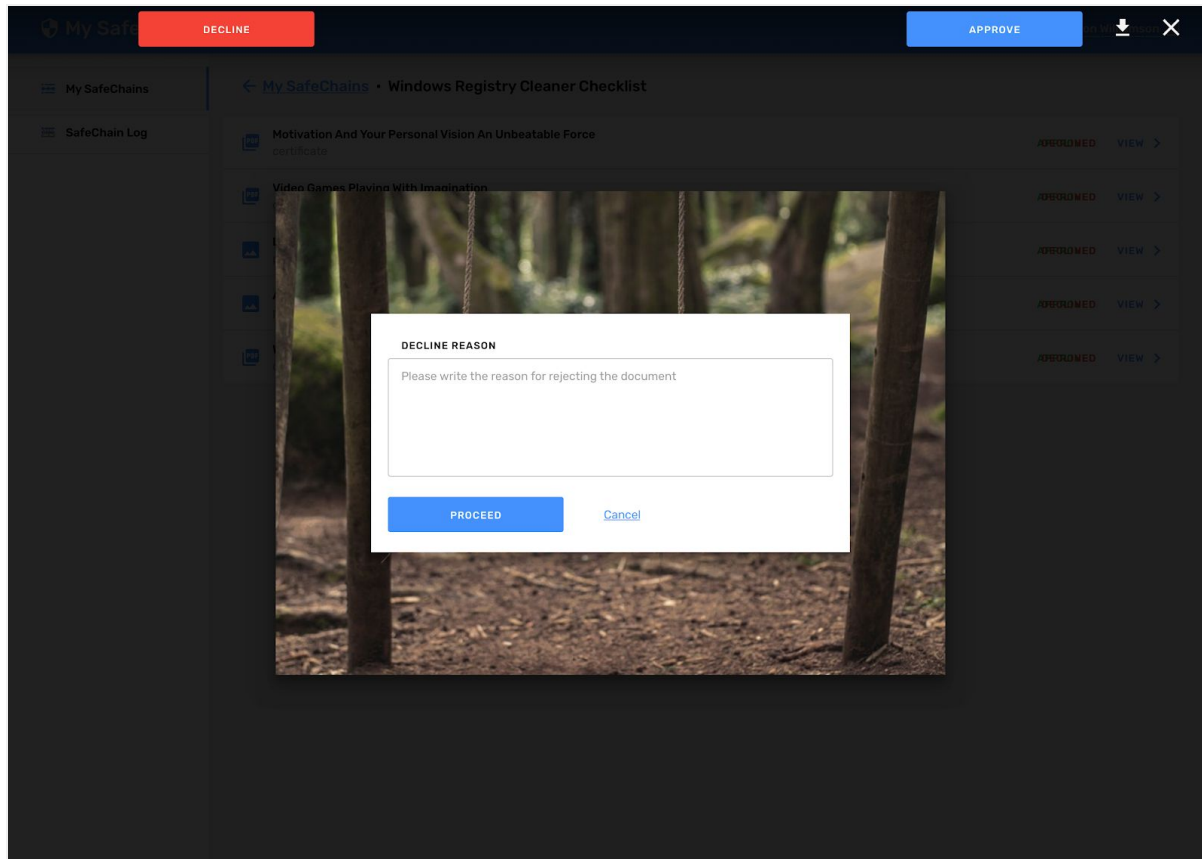
Windows Registry Cleaner Checklist

certificate

VIEW >

Example of the document to Approve or Decline

23 of 28






User see following buttons:

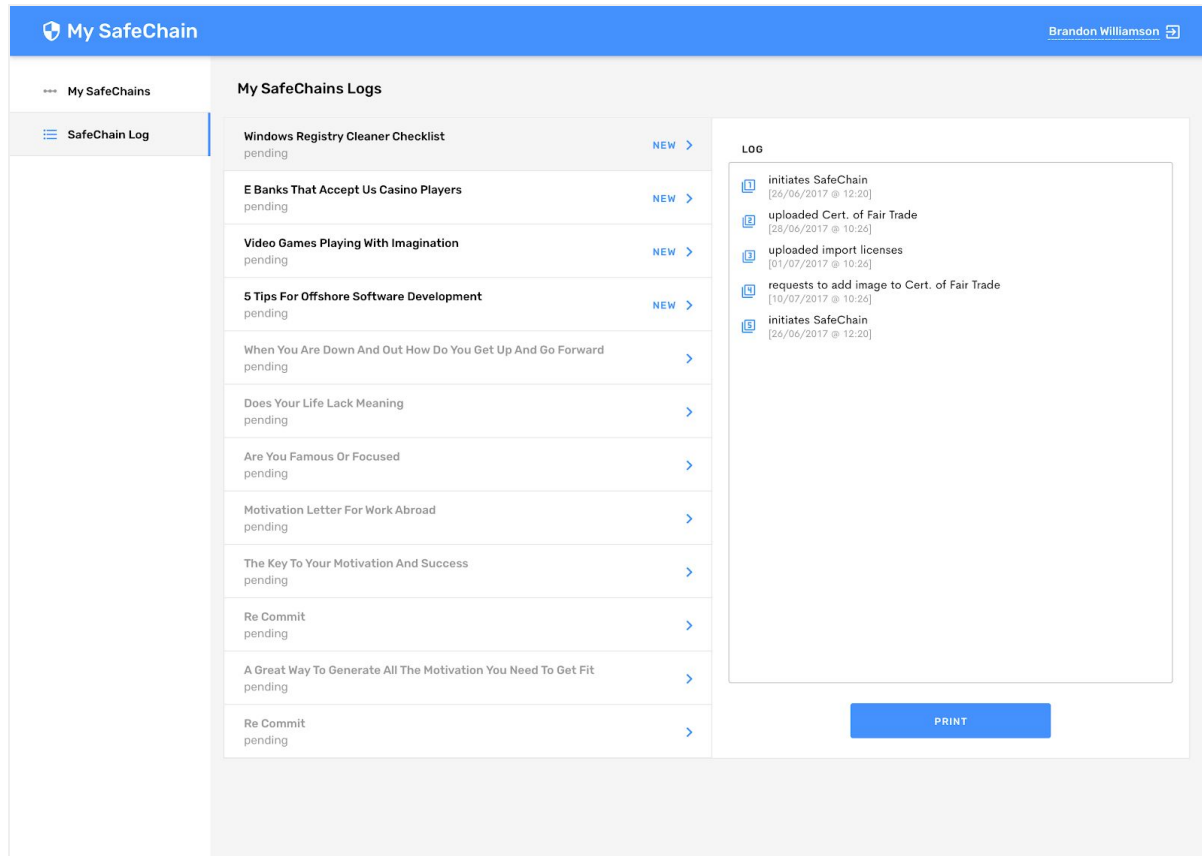
- Decline, by pressing this button user will see a pop-up where it is necessary to add an explanation why document is cancelled, after pressing proceed user will be forwarded to previous screen and document will be marked as cancelled.
- Accept, by pressing this button user will confirm document and it will go to the next step of the chain for further confirmation.
- Download (if user have permissions to download file)
- Close window button

Example of approved and cancelled documents.

[My SafeChains](#)[← My SafeChains](#) • Windows Registry Cleaner Checklist[SafeChain Log](#)

	Motivation And Your Personal Vision An Unbeatable Force certificate	APPROVED	VIEW >
	Looking For Your Dvd Printing Solution photo	DECLINED	VIEW >
	Video Games Playing With Imagination certificate		VIEW >
	A Guide To Mri Scans photo		VIEW >
	Windows Registry Cleaner Checklist certificate		VIEW >

Use Case 14 - logs



- 2. User = logged in;
- Top menu with following:
 - Name of User who work in a system
- Sidebar will have 2 sections.
 - My Safechains
 - Safechain log
- Main section will consist list of Safechains that user already participate in.

Actions:

- by pressing My Safechains user stays at the same section
- By clicking "Safechain log" user will see log related to the safe chain where user added as a participant.
- In case if user have just one safe chain will be shown a log for this particular safe chain only.
- In case if user have few safechains, that screen will be divided into two parts and left part will show list of Safechains, By pressing the name of the particular Safe Chain user will see details of it.

View for several Safechains logs in user's account.

My SafeChain

Brandon Williamson

My SafeChains

SafeChain Log

My SafeChains Logs

5 Tips For Offshore Software Development

pending

NEW >

E Banks That Accept Us Casino Players

pending

NEW >

Video Games Playing With Imagination

pending

NEW >

Windows Registry Cleaner Checklist

pending

>

When You Are Down And Out How Do You Get Up And Go Forward

pending

>

Does Your Life Lack Meaning

pending

>

Are You Famous Or Focused

pending

>

Motivation Letter For Work Abroad

pending

>

The Key To Your Motivation And Success

pending

>

Re Commit

pending

>

A Great Way To Generate All The Motivation You Need To Get Fit

pending

>

Re Commit

pending

>

LOG

1 initiates SafeChain

[26/06/2017 @ 12:20]

2 uploaded Cert. of Fair Trade

[28/06/2017 @ 10:26]

3 uploaded import licenses

[01/07/2017 @ 10:26]

4 requests to add image to Cert. of Fair Trade

[10/07/2017 @ 10:26]

5 initiates SafeChain

[26/06/2017 @ 12:20]

PRINT

Page List for User

The following is the list of pages that are anticipated for the site which are user facing. Administrator pages are not listed below. Static textual content for the page is also provided, where needed.

Page	Text Content
Login screen	
My Safechains	
Logs	
Profile	