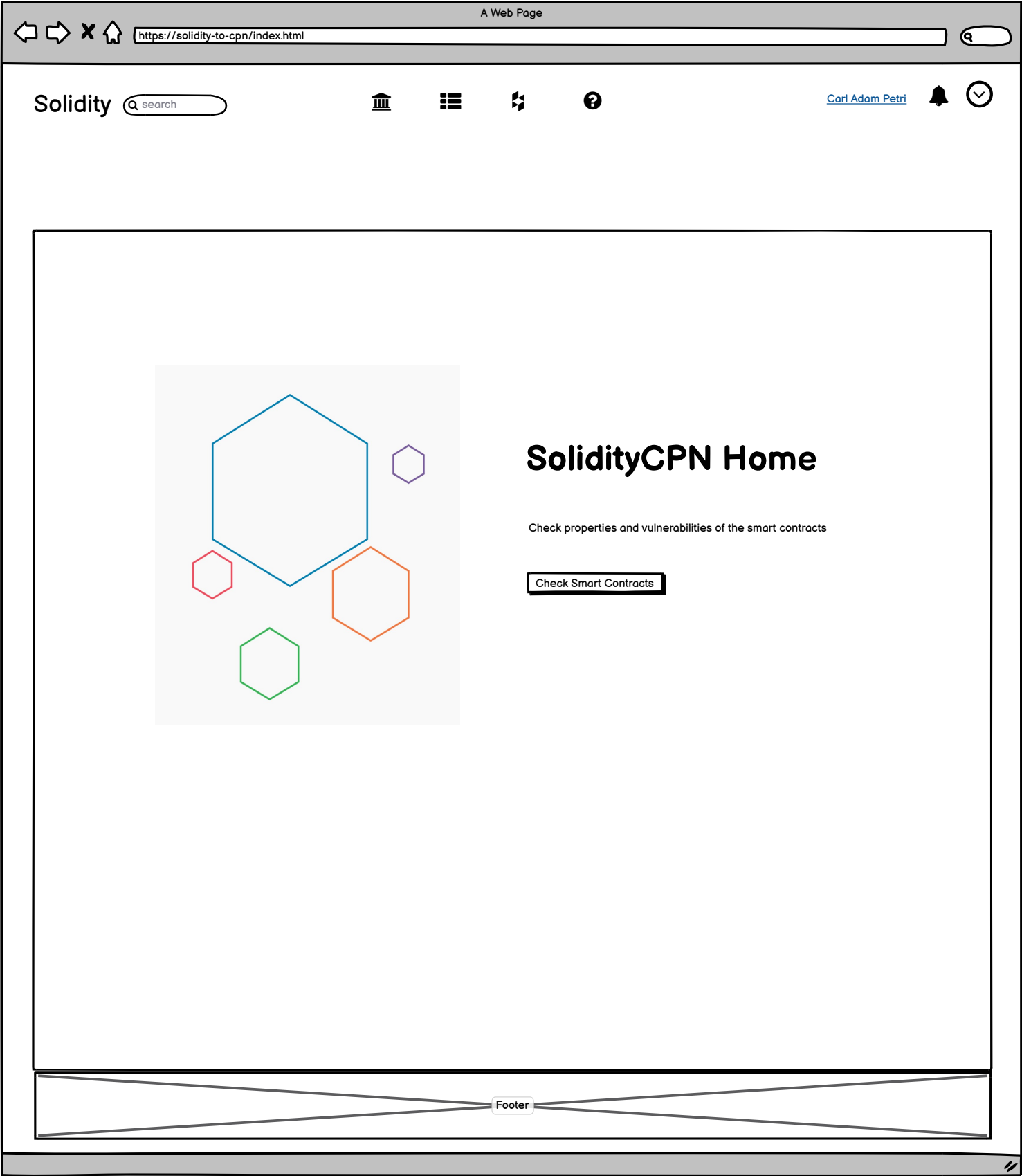
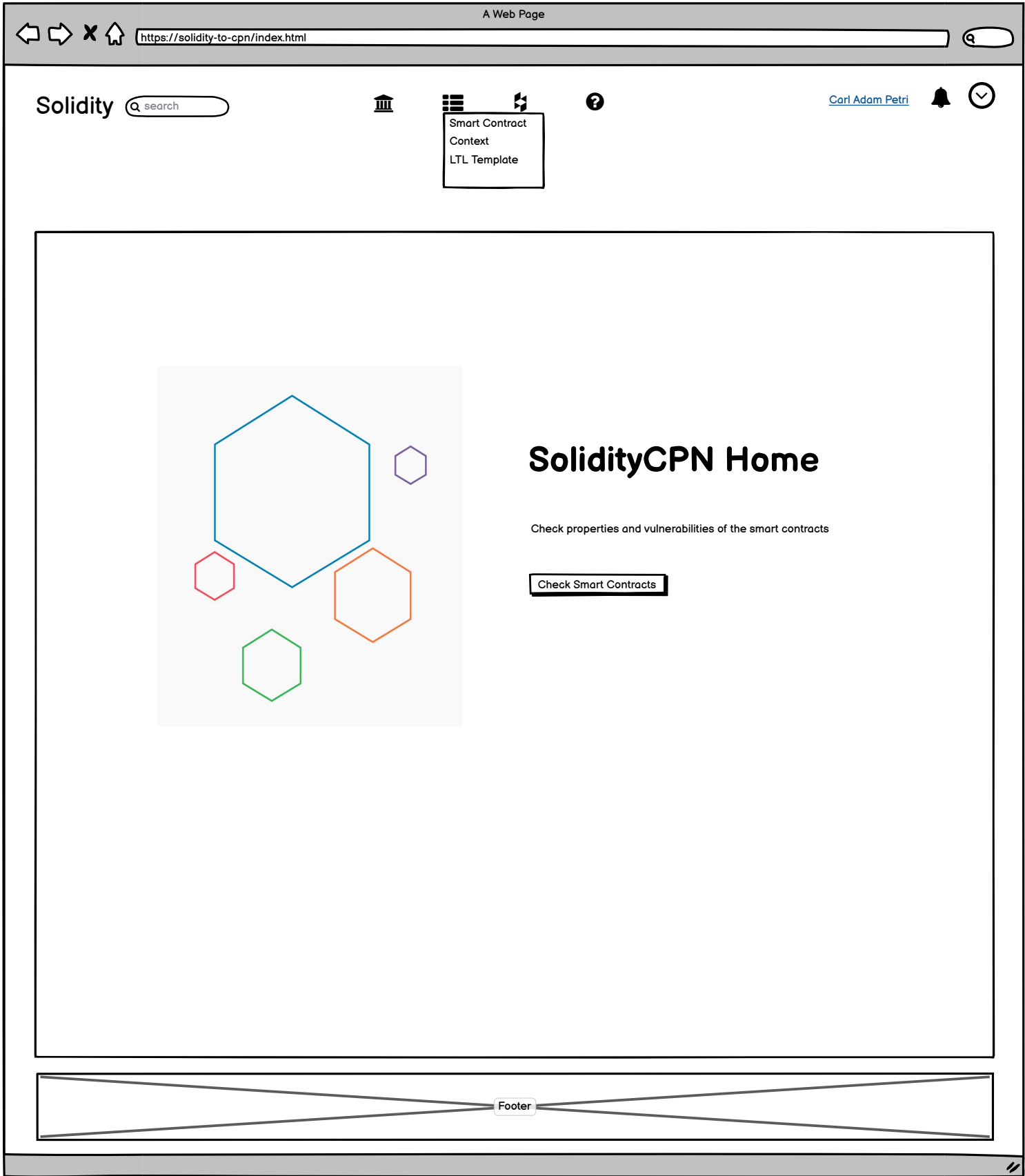


1



1



2

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Solidity

Roadmap

Start

Select Smart Contracts

Select Context

Choose Vulnerability

Generate SC to CPN

Check the SCs

Finished

☰

↺

Checked Smart Contract List

| #   | Checker | Checked Date | Number of smart contracts |
|-----|---------|--------------|---------------------------|
| 1   | David   | 09/10/2021   | 3                         |
| 2   | Jaime   |              |                           |
| 3   | Billy   |              |                           |
| 4   | Ikram   | 06/10/2021   | 2                         |
| 5   | Thomas  | 05/10/2021   | 1                         |
| 6   | Alex    | 04/10/2021   | 3                         |
| 7   | Micheal | 03/10/2021   | 1                         |
| ... | ...     |              |                           |

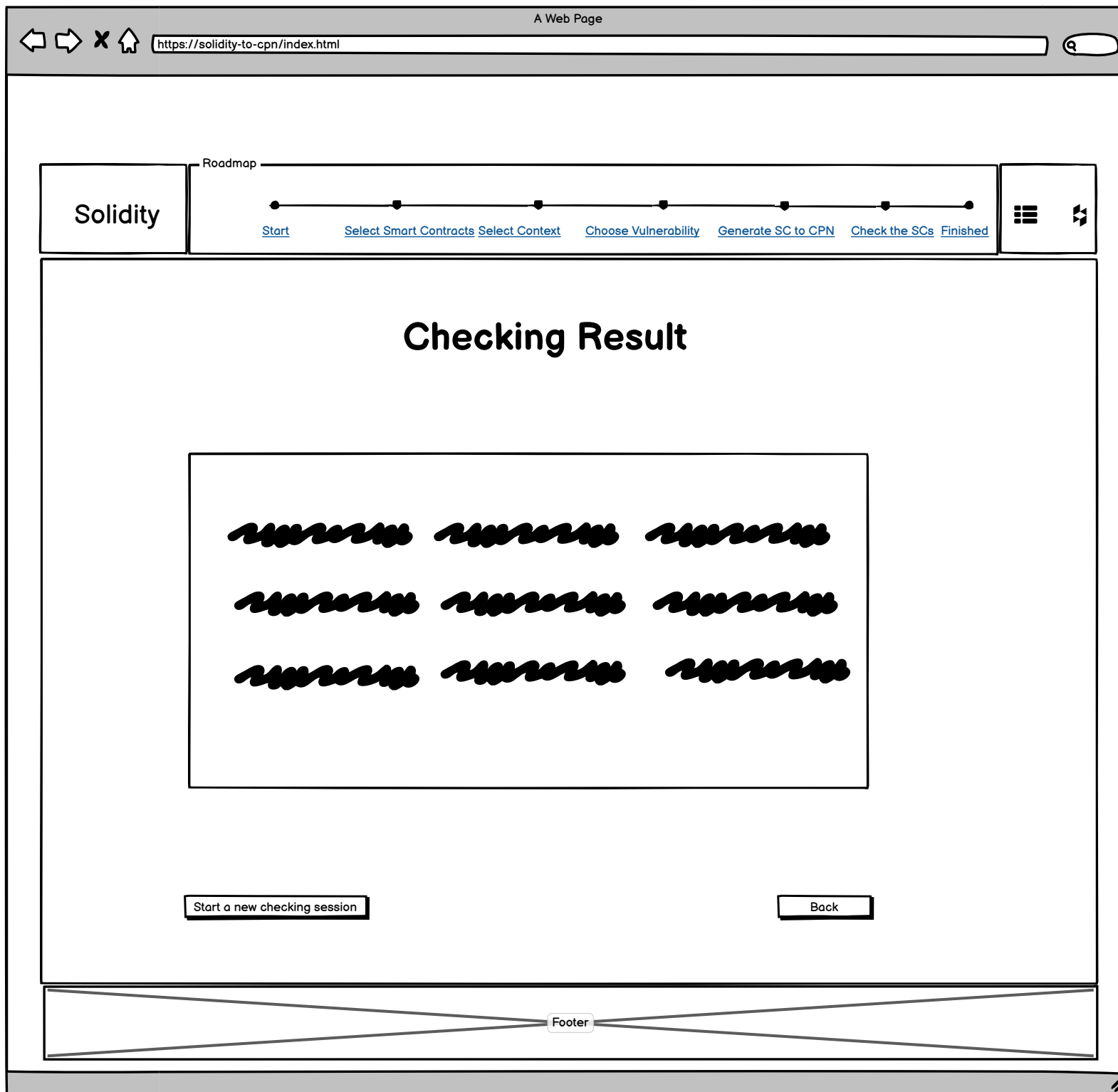
Click here to open a new form to see all the checked smart contract in the session

Start a new checking session

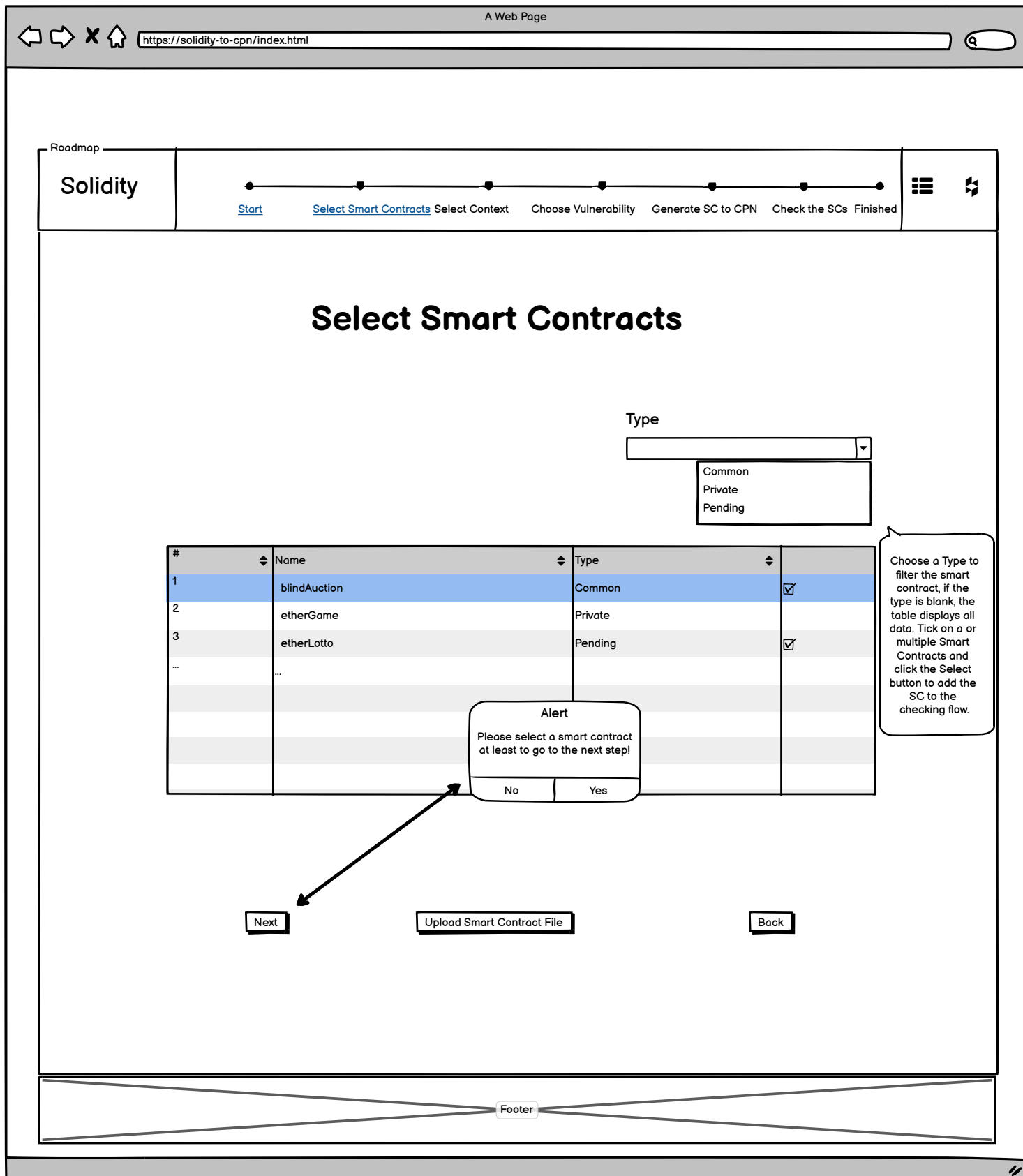
Back

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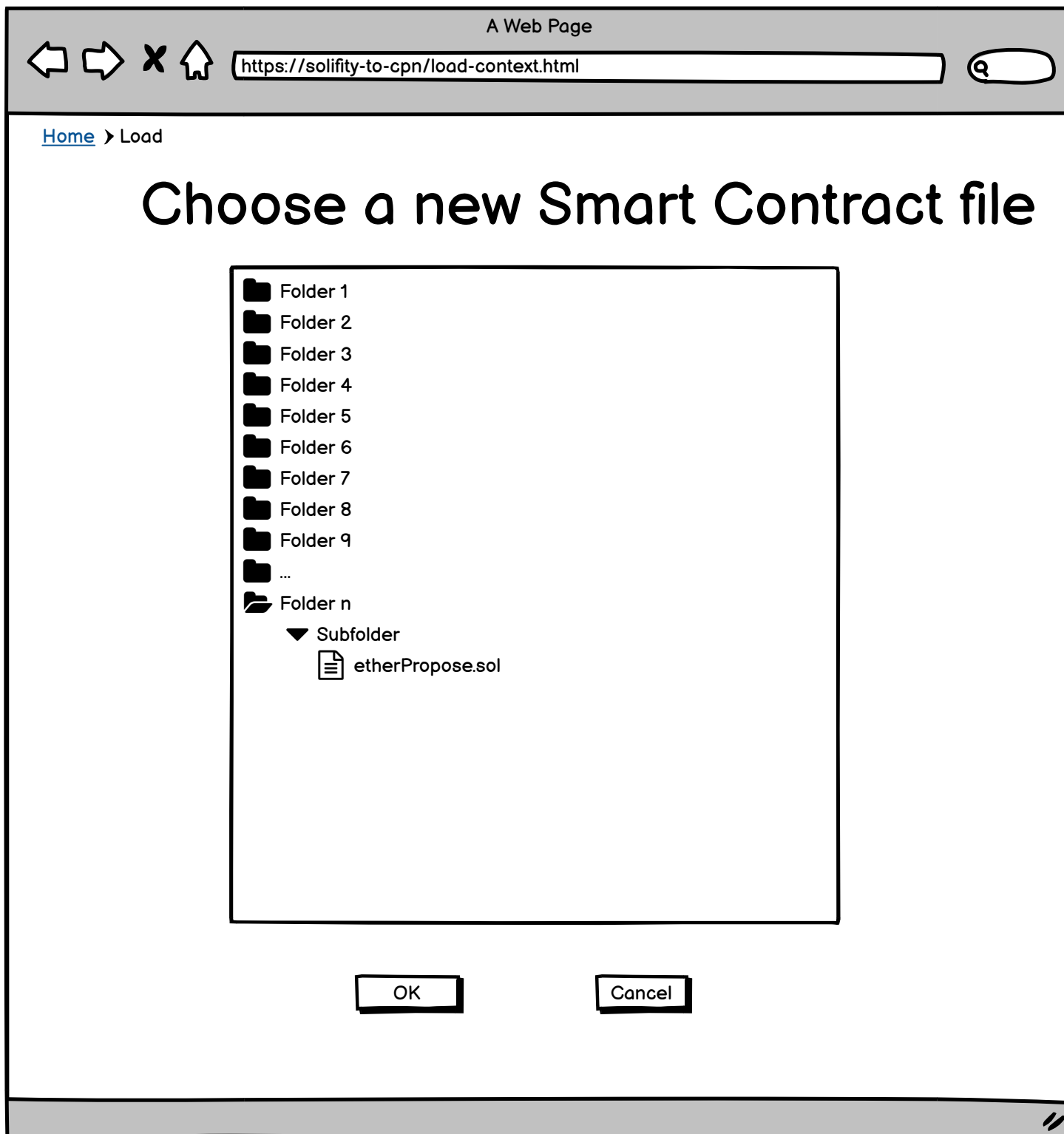
3



4



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https://solifity-to-cpn/upload-sc.html

Q

[Home](#) > Upload

# Upload a new Smart Contract code

Name

etherPropose

Smart Contract Type

☐ Pending

☒ Private

Normal user can request to change a private smart contract to become a common one.  
Default is Private

B I U style

OK

Cancel

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Start

Select Smart Contracts

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Select Context

Name

Gaming

- Medicine

- Gaming

- ...

- Lotto

Type

DCR

Description

There are several options:

• BPMN: The user will choose the BPMN context by clicking on the "Load a Context" button.

• DCR: The user will choose the DCR context by clicking on the "Load a Context" button.

• ...

• Free

Next

Upload a Context file

Skip

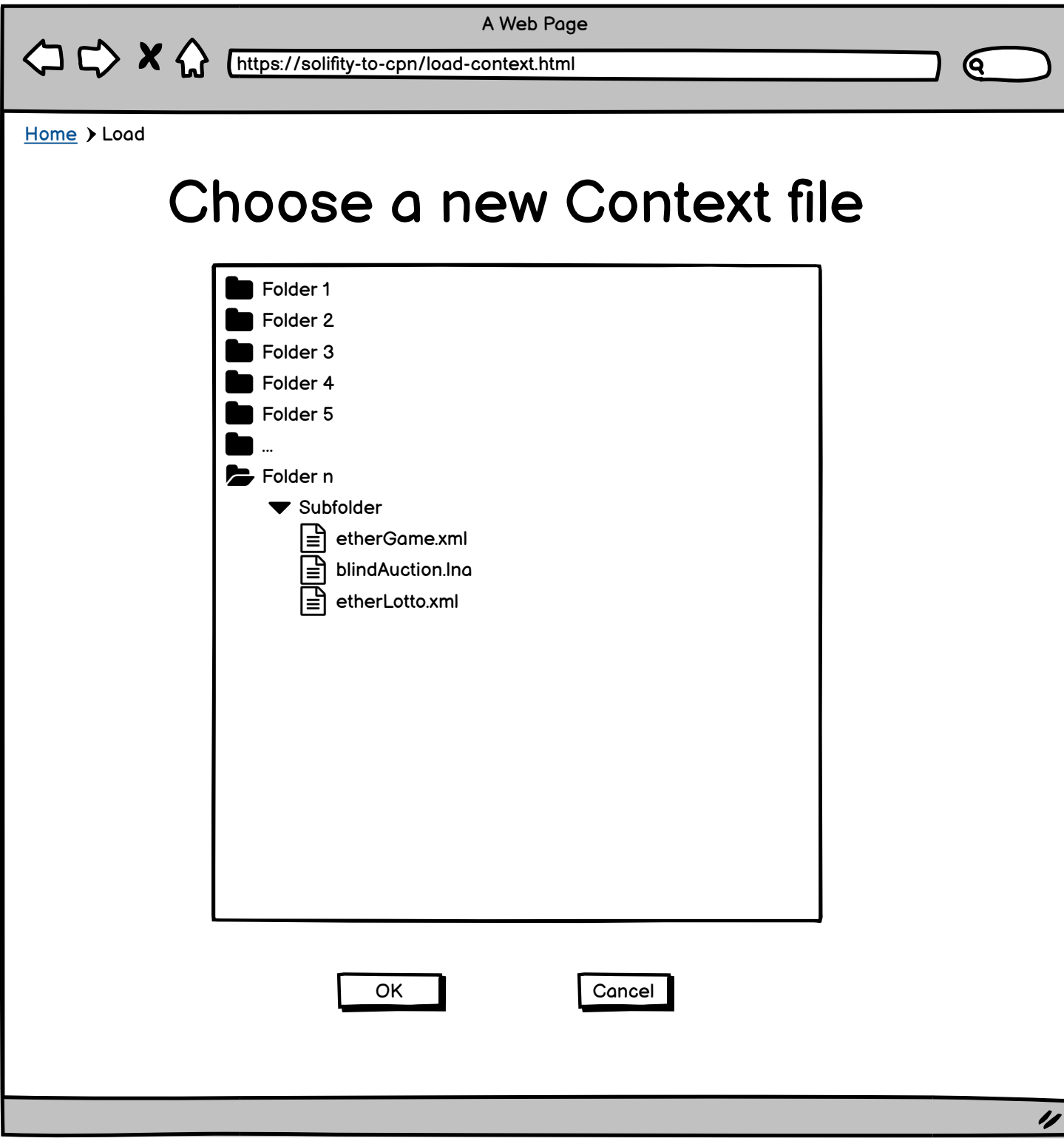
Back

If the user does not choose a context here, and click Skip, it means the user chooses the free-context

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https://solify-to-cpn/upload-sc.html

[Home](#) > Upload

# Upload a new Context file

Name

Gaming

Type

DCR

- DCR

- CPN

- ...

If the user chooses the CPN context, it means the CPN file (.lna) will be uploaded (the system does not need to run DCR2CPN tool to convert a xml file to a lna file.

Content

C:/abc/xyz/Context1.xml

Description

This is a context file for the smart contract xyz

OK

Cancel

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Roadmap

Start

Select Smart Contracts

Select Context

Choose Property

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LTL Checking Options

Please choose your way to check the Smart Contracts:

• Contract-Specific Property: You will choose the functions and using template or non-template to design your LTL formula.

• General Vulnerability: You will select the common vulnerability from the list.

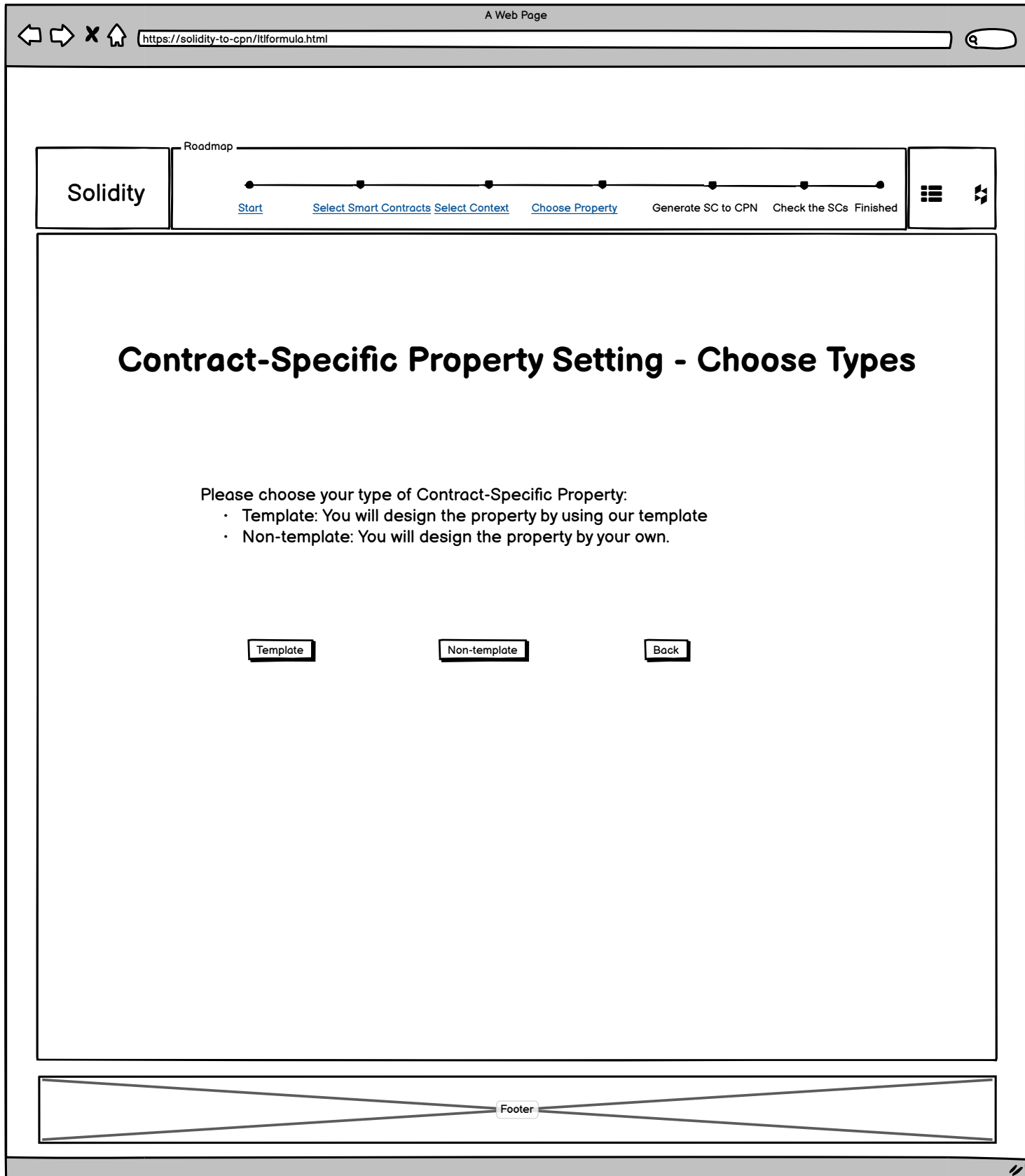
Check a Contract-Specific Property

Check a General Vulnerability

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Select smart contracts

| #   | Smart Contract name | Selected                         |
|-----|---------------------|----------------------------------|
| 1   | Smart Contract 1    | <input checked="" type="radio"/> |
| 2   | Smart Contract 2    | <input type="radio"/>            |
| 3   | Smart Contract 3    | <input type="radio"/>            |
| 4   | Smart Contract 4    | <input type="radio"/>            |
| ... |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |

OK

Cancel

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# Select global variables of the smart contract

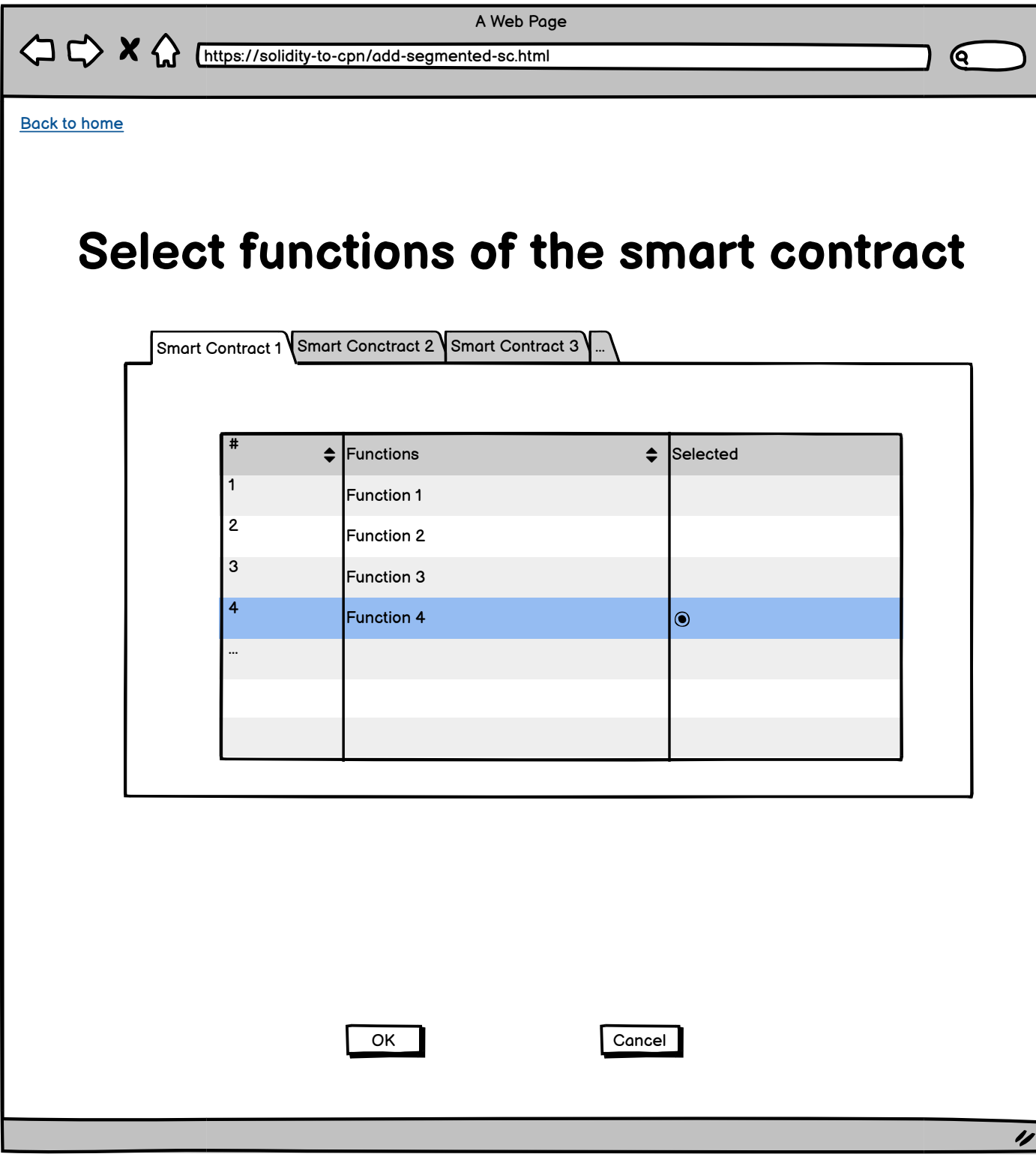
Smart Contract 1Smart Contract 2Smart Contract 3

| #   | Global variables | Selected                         |
|-----|------------------|----------------------------------|
| 1   | GV1              | <input checked="" type="radio"/> |
| 2   | GV2              | <input type="radio"/>            |
| 3   | GV3              | <input type="radio"/>            |
| 4   | GV4              | <input type="radio"/>            |
| ... |                  |                                  |
|     |                  |                                  |
|     |                  |                                  |
|     |                  |                                  |

OK

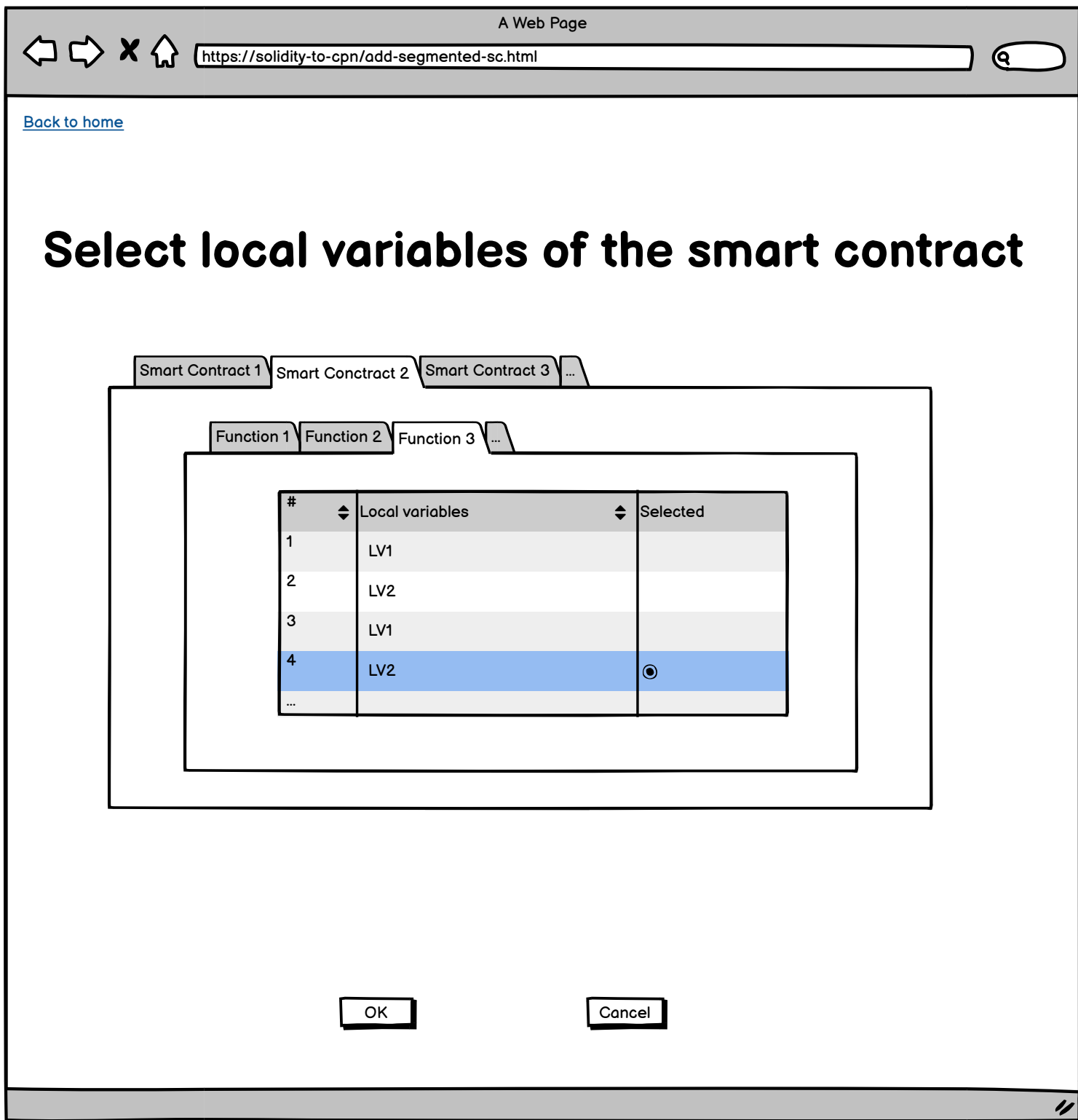
Cancel

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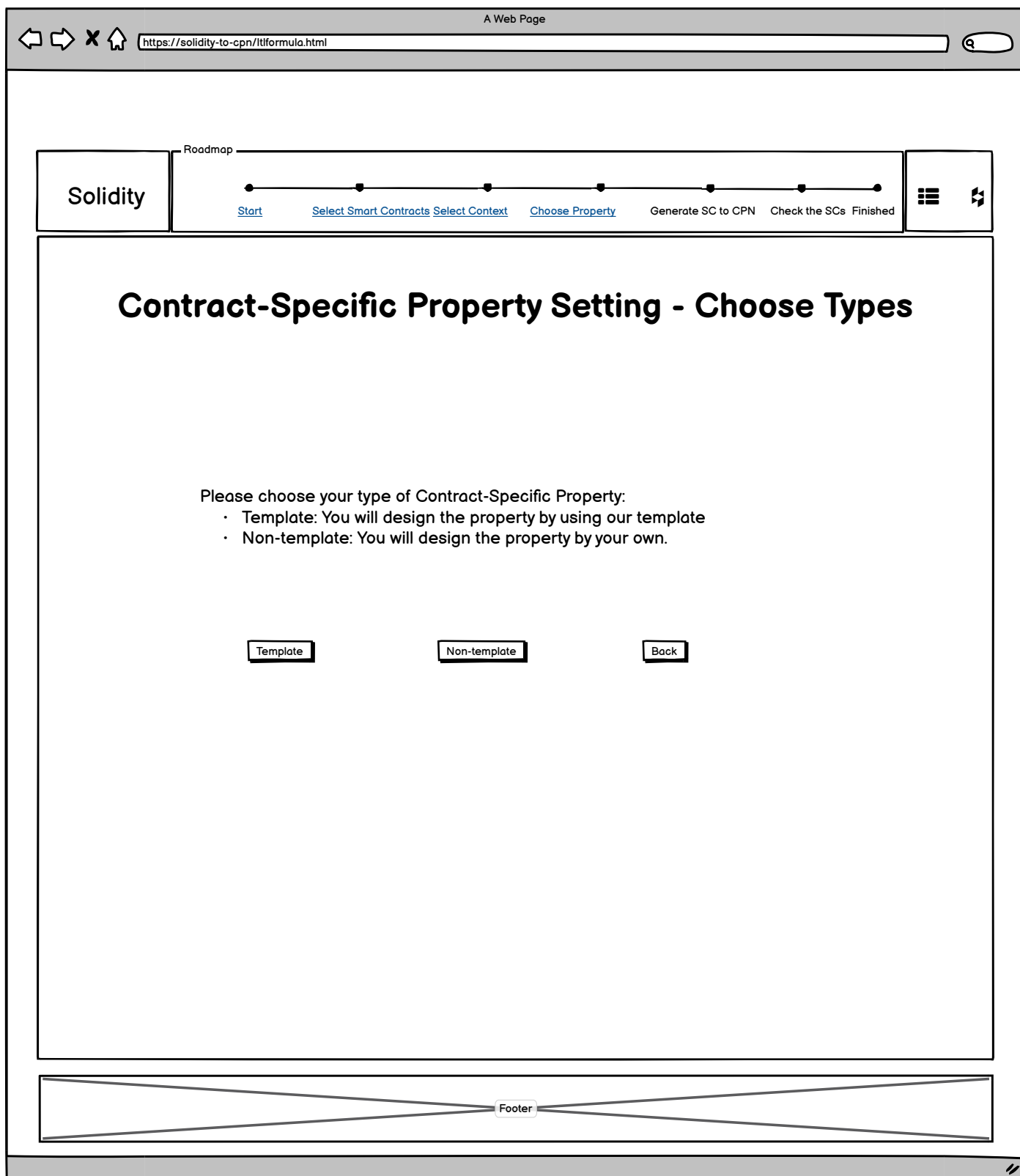


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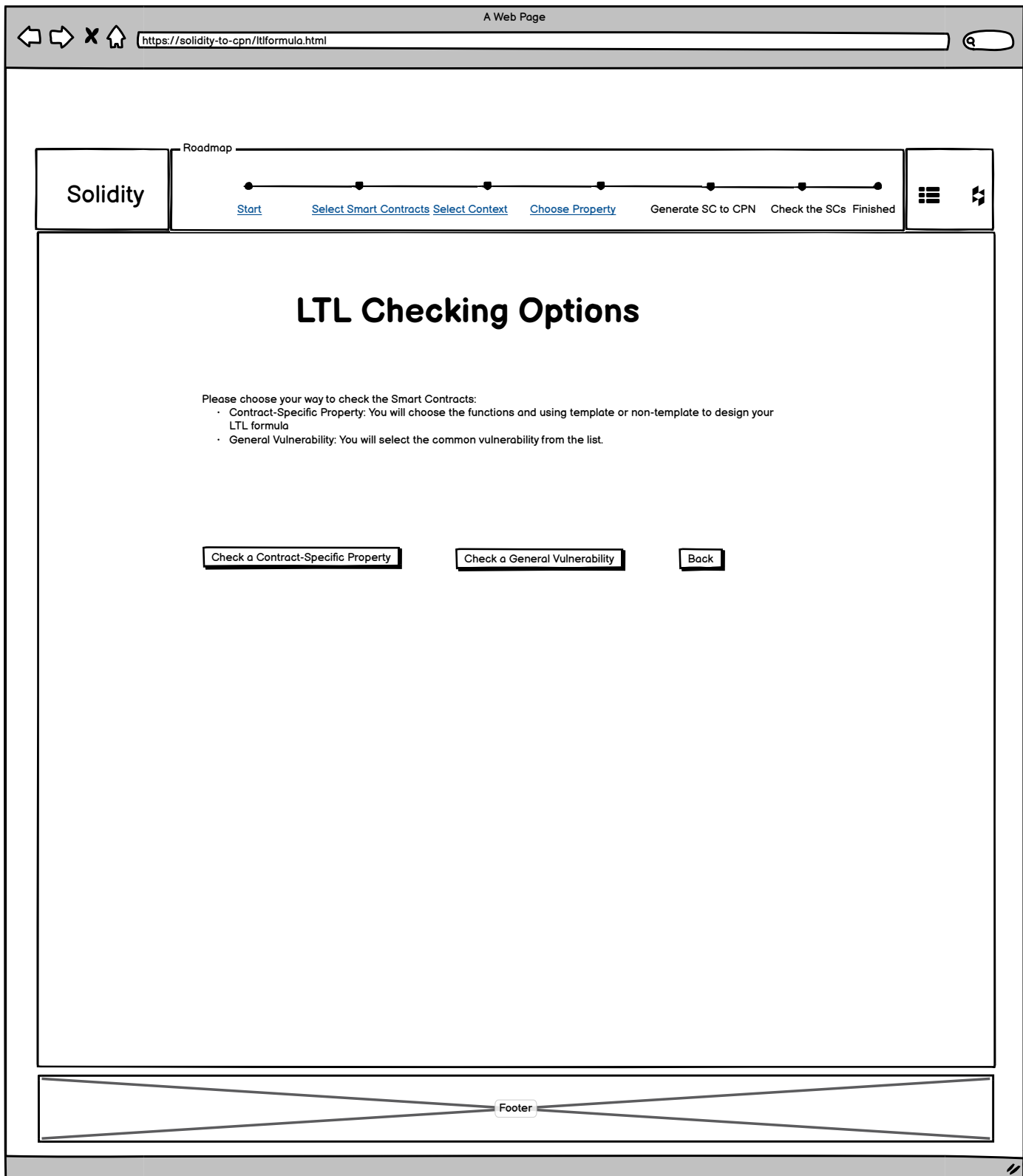
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Select Smart Contracts

Select Context

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# General Vulnerability Setting

Vulnerability

Integer Overflow/Underflow

If the user choose Integer Overflow/Underflow or Unitialized Storage Literal the system will display a windows for the user to choose a variable to insert to the formula

Integer Overflow/Underflow

Reentrancy

Self-destruction

Timestamp Dependence

Skip Empty String Literal

Uninitialized Storage Variable

Others

Description

outOfRange(x) = (x < minThreshold) V (x > maxThreshold)

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## Select variables of the function

Smart Contract 1

Smart Contract 2

Smart Contract 3

...

| #   | Global variables | Selected                         |
|-----|------------------|----------------------------------|
| 1   | GV1              |                                  |
| 2   | GV2              |                                  |
| 3   | GV3              |                                  |
| 4   | GV4              | <input checked="" type="radio"/> |
| ... |                  |                                  |

Function 1

Function 2

...

| #   | Local variables | Selected |
|-----|-----------------|----------|
| 1   | LV1             |          |
| 2   | LV2             |          |
| 3   | LV3             |          |
| 4   | LV4             |          |
| ... |                 |          |

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## General Vulnerability Setting

Vulnerability
Reentrancy
Integer Overflow/Underflow
Reentrancy
Self-destruction
Timestamp Dependence
Skip Empty String Literal
Uninitialized Storage Variable
Others

Description

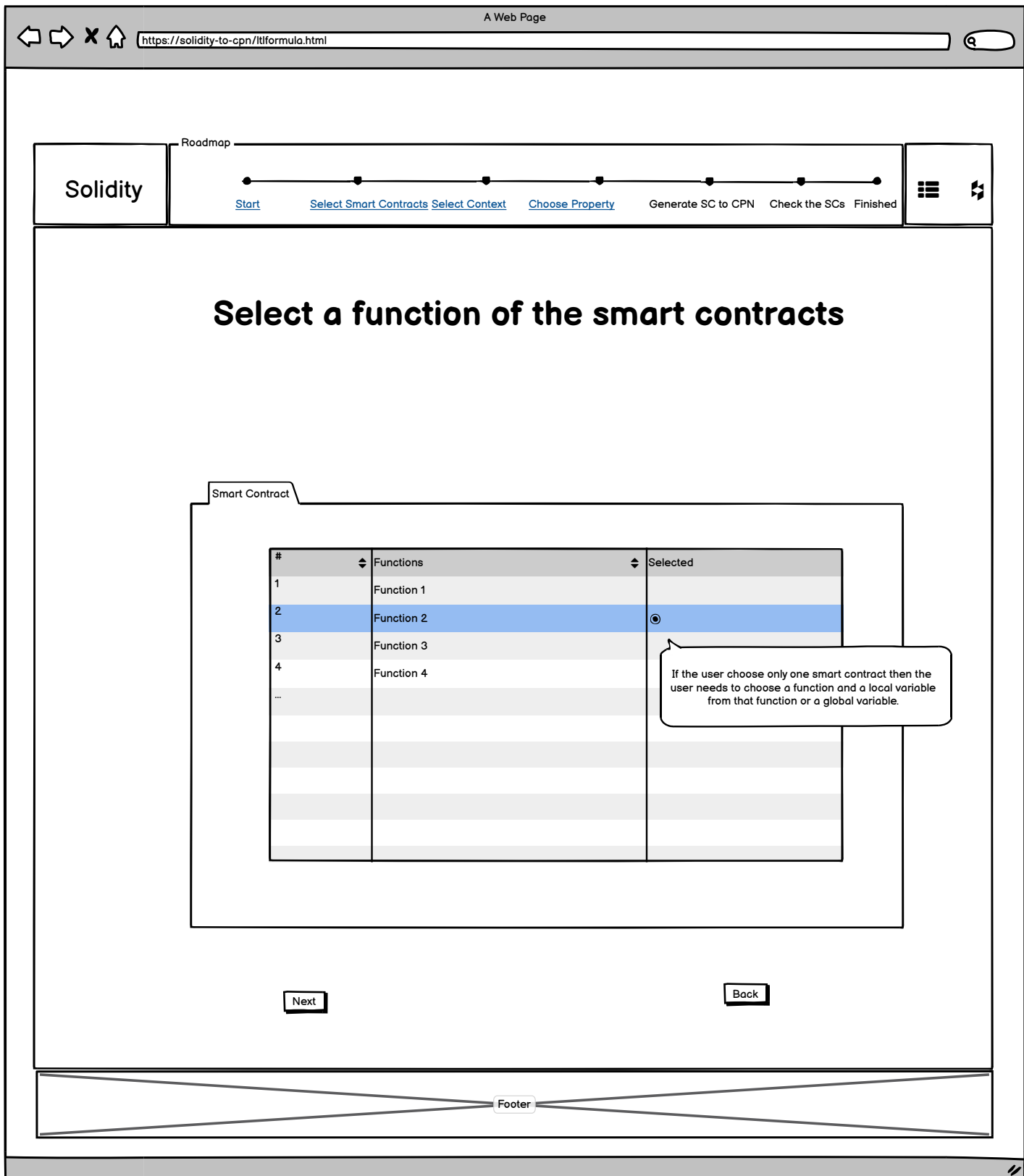
There are two options for the reentrancy vulnerability:

- If the user choose only one smart contract then the user needs to choose a function and a local variable from that function or a global variable.
- If the user chooses more than one smart contract, then the user need to choose a smart contract  $S_i$ , a function  $F_i$  from that smart contract  $S_i$ . If he knows which smart contract  $S_j$ , he will be interacting with, he selects it. If he doesn't, he need to chooses a local variable from the function he had selected  $F_i$  or a global variable from  $S_i$ .

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Generate SC to CPN

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Finished

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# Select variables of the selected function

| # | Global variable   | Selected                         |
|---|-------------------|----------------------------------|
| 1 | Global Variable 1 |                                  |
| 2 | Global Variable 2 | <input checked="" type="radio"/> |
| 3 | Global Variable 3 |                                  |
| 4 | Global Variable 4 |                                  |

Function 2

| #   | Local variable   | Selected |
|-----|------------------|----------|
| 1   | Local Variable 1 |          |
| 2   | Local Variable 2 |          |
| ... |                  |          |
|     |                  |          |
|     |                  |          |

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## Select functions of the smart contracts

Smart Contract 1Smart Contract 2...

| #   | Functions  | Selected                         |
|-----|------------|----------------------------------|
| 1   | Function 1 |                                  |
| 2   | Function 2 | <input checked="" type="radio"/> |
| 3   | Function 3 |                                  |
| 4   | Function 4 |                                  |
| ... |            |                                  |
|     |            |                                  |
|     |            |                                  |
|     |            |                                  |
|     |            |                                  |
|     |            |                                  |

If the user chooses more than one smart contract, then the user need to choose a smart contract  $S_i$ , a function  $F_i$  from that smart contract  $S_i$ . If he knows which smart contract  $S_j$ , he will be interacting with, he selects it. If he doesn't, he need to chooses a local variable from the function he had selected  $F_i$  or a global variable from  $S_i$ .

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Select smart contracts

| #   | Smart Contract name | Selected                         |
|-----|---------------------|----------------------------------|
| 1   | Smart Contract 2    | <input checked="" type="radio"/> |
| 2   | Smart Contract 3    | <input type="radio"/>            |
| ... |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |

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# Select a variable of the selected function

| #   | Global variable   | Selected |
|-----|-------------------|----------|
| 1   | Global Variable 1 |          |
| 2   | Global Variable 2 |          |
| 3   | Global Variable 3 |          |
| ... |                   |          |

Function 2

| #   | Local variable   | Selected                         |
|-----|------------------|----------------------------------|
| 1   | Local Variable 1 |                                  |
| 2   | Local Variable 2 | <input checked="" type="radio"/> |
| ... |                  |                                  |

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General Vulnerabilty Setting

Vulnerability

Timestamp Dependence

If the user chooses Timestamp Dependence, Skip Empty String Literal then the system will display the functions for the users to choose

Integer Overflow/Underflow

Reentrancy

Self-destruction

Timestamp Dependence

Skip Empty String Literal

Uninitialized Storage Variable

Others

Description

Since the execution on a Blockchain needs to be deterministic for all the miners to get the same results and reach a consensus, users usually resort to block-related variables such as timestamp as a source of entropy.

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# Select functions of the smart contracts

Smart Contract 1 Smart Contract 2 ...

| #   | Functions  | Selected                         |
|-----|------------|----------------------------------|
| 1   | Function 1 |                                  |
| 2   | Function 2 | <input checked="" type="radio"/> |
| 3   | Function 3 |                                  |
| 4   | Function 4 |                                  |
| ... |            |                                  |
|     |            |                                  |
|     |            |                                  |
|     |            |                                  |
|     |            |                                  |

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# General Vulnerability Setting

Vulnerability

Self-Destruction

Integer Overflow/Underflow

Reentrancy

Self-destruction

Timestamp Dependence

Skip Empty String Literal

Uninitialized Storage Variable

Others

Description

There are 2 options:

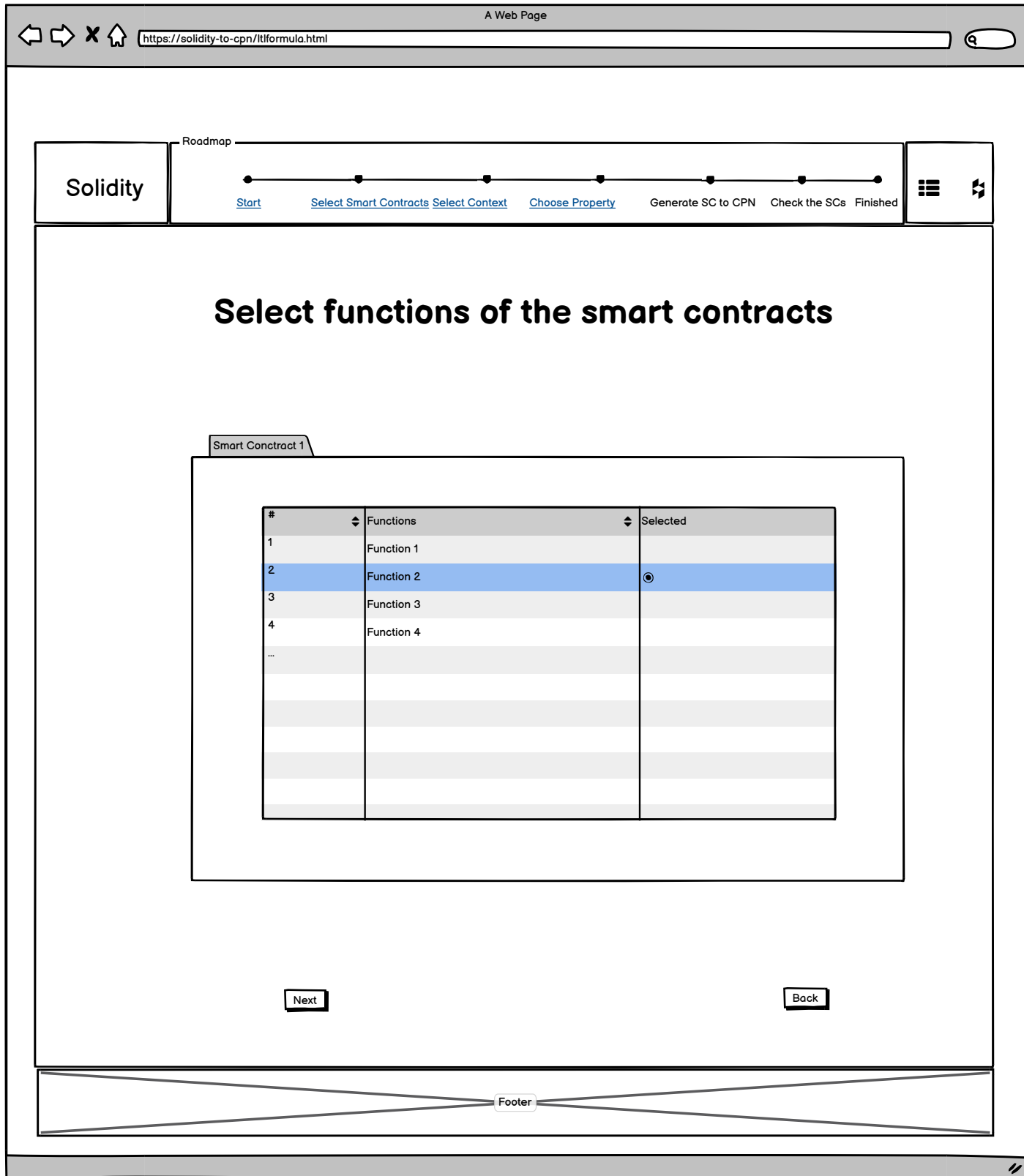
- The user chooses only one smart contract then the user need to choose a function in the smart contract for the vulnerability.
- If the user chooses more than one smart contract and after choosing a function in the first one the user chooses another smart contract, the system will go to option 2 of Self-destruction (2 functions). If the user does not choose any function, the system goes to the option 1 (only one function is chosen)

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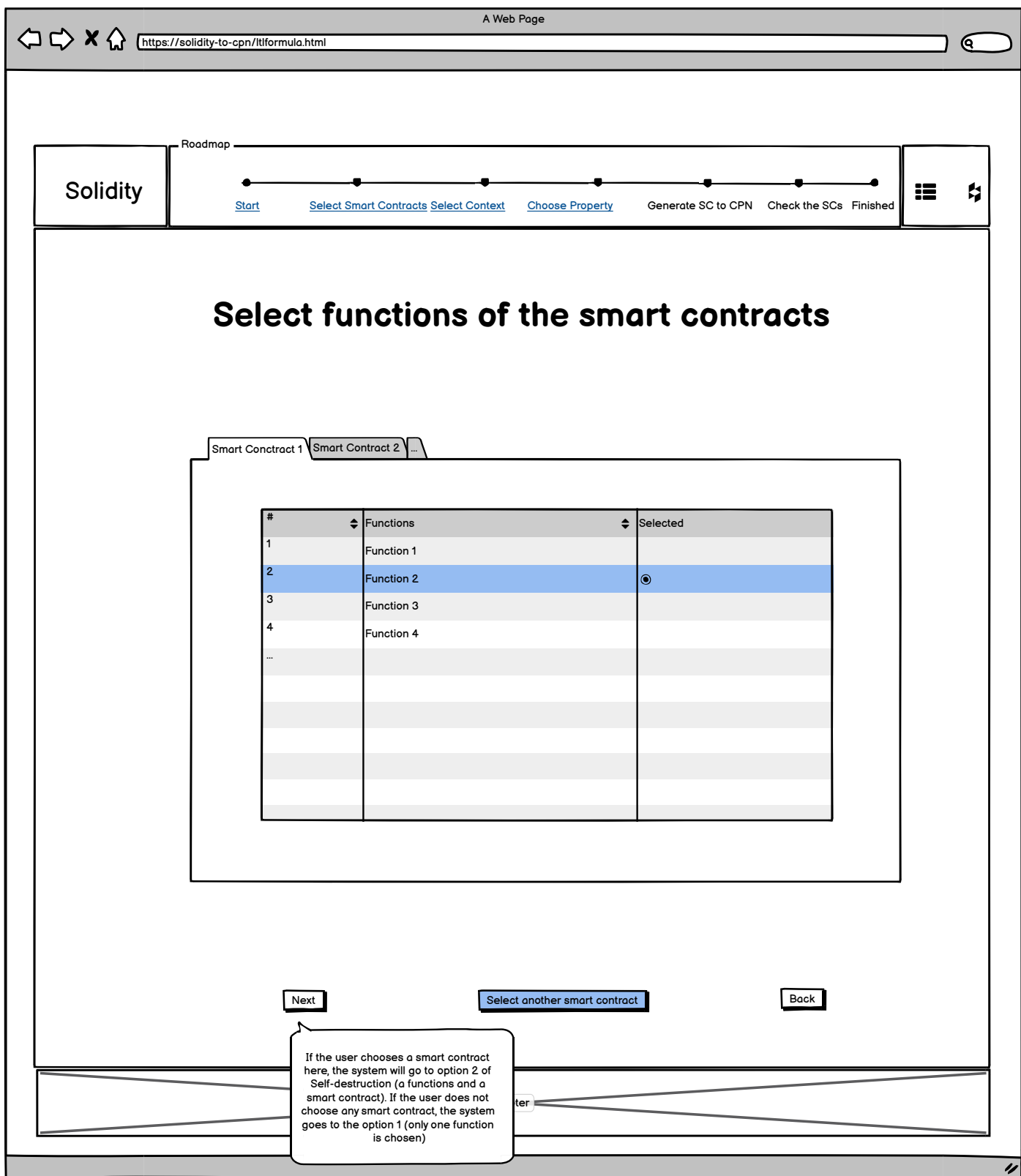
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# Select smart contracts

| #   | Smart Contract Name | Selected                         |
|-----|---------------------|----------------------------------|
| 1   | Smart Contract 2    |                                  |
| 2   | Smart Contract 3    |                                  |
| 3   | Smart Contract 4    | <input checked="" type="radio"/> |
| ... |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |
|     |                     |                                  |

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Start

Select Smart Contracts

Select Context

Choose Property

Generate SC to CPN

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Finished

☰

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## Configuration

Number of users

☒ Fixed ☐ Random ☐ Map

Balance

Function parameters

Smart Contract 1

Smart Contract 2

Smart Contract 3

...

| #   | Functions  | Arguments                    |
|-----|------------|------------------------------|
| 1   | Function 1 | <a href="#">Input Params</a> |
| 2   | Function 2 | <a href="#">Input Params</a> |
| 3   | Function 3 | <a href="#">Input Params</a> |
| 4   | Function 4 | <a href="#">Input Params</a> |
| ... |            |                              |

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# Configuration

Number of users

☐ Fixed

☒ Random

☐ Map

Balance

From

To

Function parameters

Smart Contract 1

Smart Contract 2

Smart Contract 3

...

| #   | Functions  | Arguments                    |
|-----|------------|------------------------------|
| 1   | Function 1 | <a href="#">Input Params</a> |
| 2   | Function 2 | <a href="#">Input Params</a> |
| 3   | Function 3 | <a href="#">Input Params</a> |
| 4   | Function 4 | <a href="#">Input Params</a> |
| ... |            |                              |

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Roadmap

Start

Select Smart Contracts

Select Context

Choose Property

Generate SC to CPN

Check the SCs

Finished

# Configuration

Number of users

5

☐ Fixed ☐ Random ☒ Map

Balance

1,2,3,4,5

Function parameters

Smart Contract 1Smart Contract 2Smart Contract 3...

| #   | Functions  | Arguments                    |
|-----|------------|------------------------------|
| 1   | Function 1 | <a href="#">Input Params</a> |
| 2   | Function 2 | <a href="#">Input Params</a> |
| 3   | Function 3 | <a href="#">Input Params</a> |
| 4   | Function 4 | <a href="#">Input Params</a> |
| ... |            |                              |

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Generate SC to CPN

Check the SCs

Finished

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Input Parameters

Sender value

2

To

10

| #   | Parameters | Range                                 |
|-----|------------|---------------------------------------|
| 1   | Argument 1 | <div><div>1</div>To<div>5</div></div> |
| 2   | Argument 2 | <div><div>1</div>To<div>5</div></div> |
| ... |            |                                       |
|     |            |                                       |
|     |            |                                       |
|     |            |                                       |

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Select Smart Contracts

Select Context

Choose Property

Generate SC to CPN

Check the SCs

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# Generating CPN Model

Smart Contracts

| # | Contract Name |
|---|---------------|
| 1 | blindAuction  |
| 2 | etherLotto    |
| 3 | etherGame     |
| 4 | ...           |

Context

Gaming

LTL Property

Integer Overflow

Configuration

| #   | User   | Balance | Sender Value | Argument 1 | Argument 2 |
|-----|--------|---------|--------------|------------|------------|
| 1   | user 1 | 3       | 2            | 2          | 1          |
| 2   | user 2 | 2       | 1            | 2          | 3          |
| 3   | ..     |         |              |            |            |
| ... |        |         |              |            |            |

The smart contract is generating...

Generate

Back

When the user clicks on this button, the system will call the DCR2CPN tool to generate the context file, and then call the unfolding tool to generate the HCPN file to add atomic proposition to the HCPN file and create the property file (the input for Helena tool)



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☰ ⚡

## Generating CPN Model

Smart Contracts

| # | Contract Name |
|---|---------------|
| 1 | blindAuction  |
| 2 | etherLotto    |
| 3 | etherGame     |
| 4 | ...           |

Context

Gaming

LTL Property

Integer Overflow

Configuration

| #   | User   | Balance | Parameters |
|-----|--------|---------|------------|
| 1   | user 1 | 3       | 2          |
| 2   | user 2 | 2       | 1          |
| 3   | ..     |         |            |
| ... |        |         |            |

The generating process completed successfully

Next

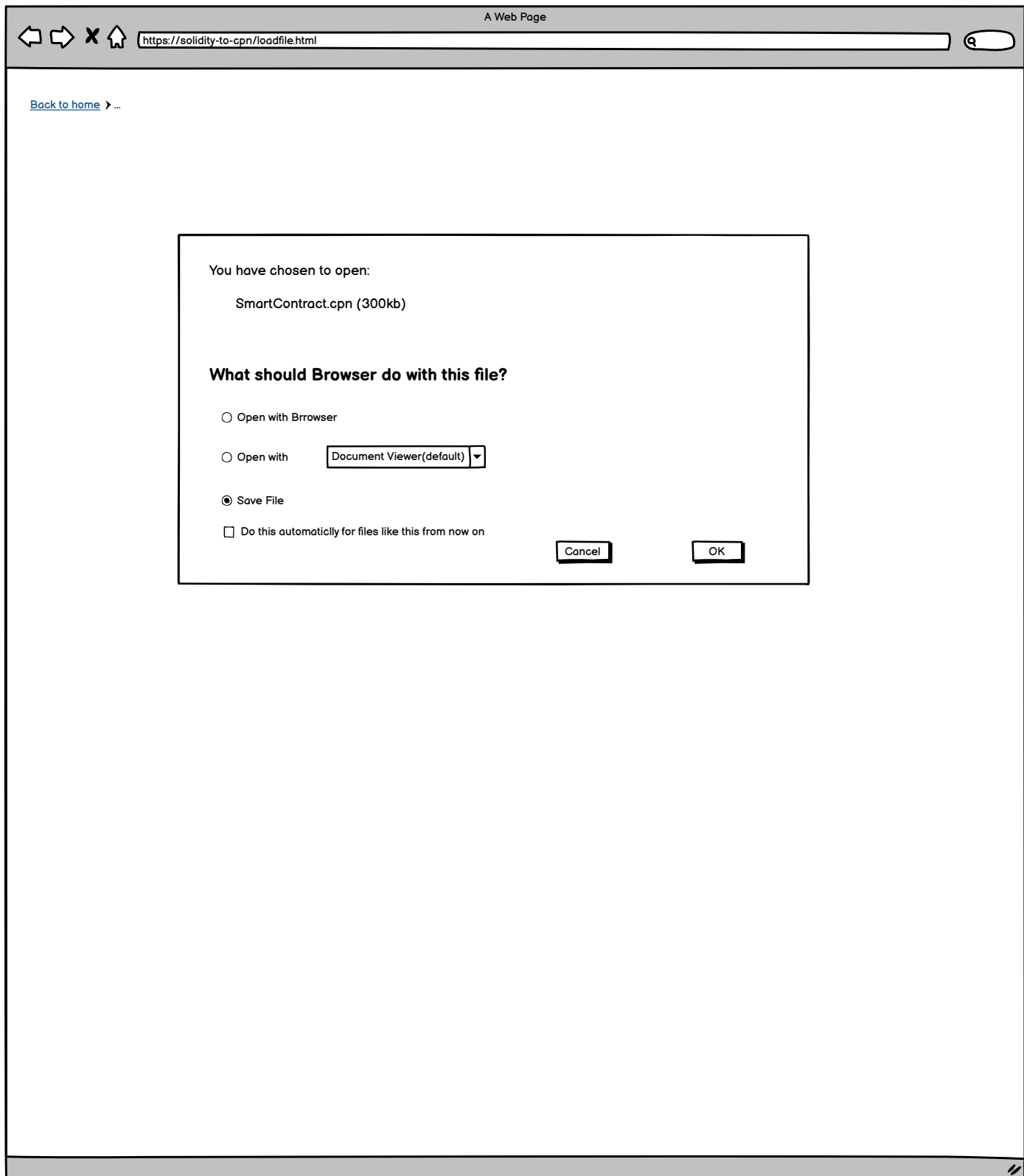
Download

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Click on "Download" button to download the CPN generated files

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Select Smart Contracts

Select Context

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Generate SC to CPN

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Checking Smart Contracts

Smart Contracts

| # | Contract Name |
|---|---------------|
| 1 | blindAuction  |
| 2 | etherLotto    |
| 3 | etherGame     |
| 4 | ...           |

Context

Gaming

LTL Property

Integer Overflow

Configuration

| #   | User   | Balance | Sender Value | Argument 1 | Argument 2 |
|-----|--------|---------|--------------|------------|------------|
| 1   | user 1 | 3       | 2            | 2          | 1          |
| 2   | user 2 | 2       | 1            | 2          | 3          |
| 3   | ..     |         |              |            |            |
| ... |        |         |              |            |            |

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Select Smart Contracts

Select Context

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Generate SC to CPN

Check the SCs

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# Checking Smart Contracts

Smart Contracts

| # | Contract Name |
|---|---------------|
| 1 | blindAuction  |
| 2 | etherLotto    |
| 3 | etherGame     |
| 4 | ...           |

Context

Gaming

LTL Property

Integer Overflow

Configuration

| #   | User   | Balance | Sender Value | Argument 1 | Argument 2 |
|-----|--------|---------|--------------|------------|------------|
| 1   | user 1 | 3       | 2            | 2          | 1          |
| 2   | user 2 | 2       | 1            | 2          | 3          |
| 3   | ..     |         |              |            |            |
| ... |        |         |              |            |            |

The smart contract is checking...

Check

Back

When the user clicks on this button, the system will call the Helena tool to check the CPN file generated by tools in the previous steps and get the result from the Helena tool to show on the screen for the user.

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Start

Select Smart Contracts

Select Context

Choose Vulnerability

Generate SC to CPN

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# Checking Smart Contracts

Smart Contracts

| # | Contract Name |
|---|---------------|
| 1 | blindAuction  |
| 2 | etherLotto    |
| 3 | etherGame     |
| 4 | ...           |

Context

Gaming

LTL Property

Integer Overflow

Configuration

| #   | User   | Balance | Sender Value | Argument 1 | Argument 2 |
|-----|--------|---------|--------------|------------|------------|
| 1   | user 1 | 3       | 2            | 2          | 1          |
| 2   | user 2 | 2       | 1            | 2          | 3          |
| 3   | ..     |         |              |            |            |
| ... |        |         |              |            |            |

The checking process completed successfully

Check

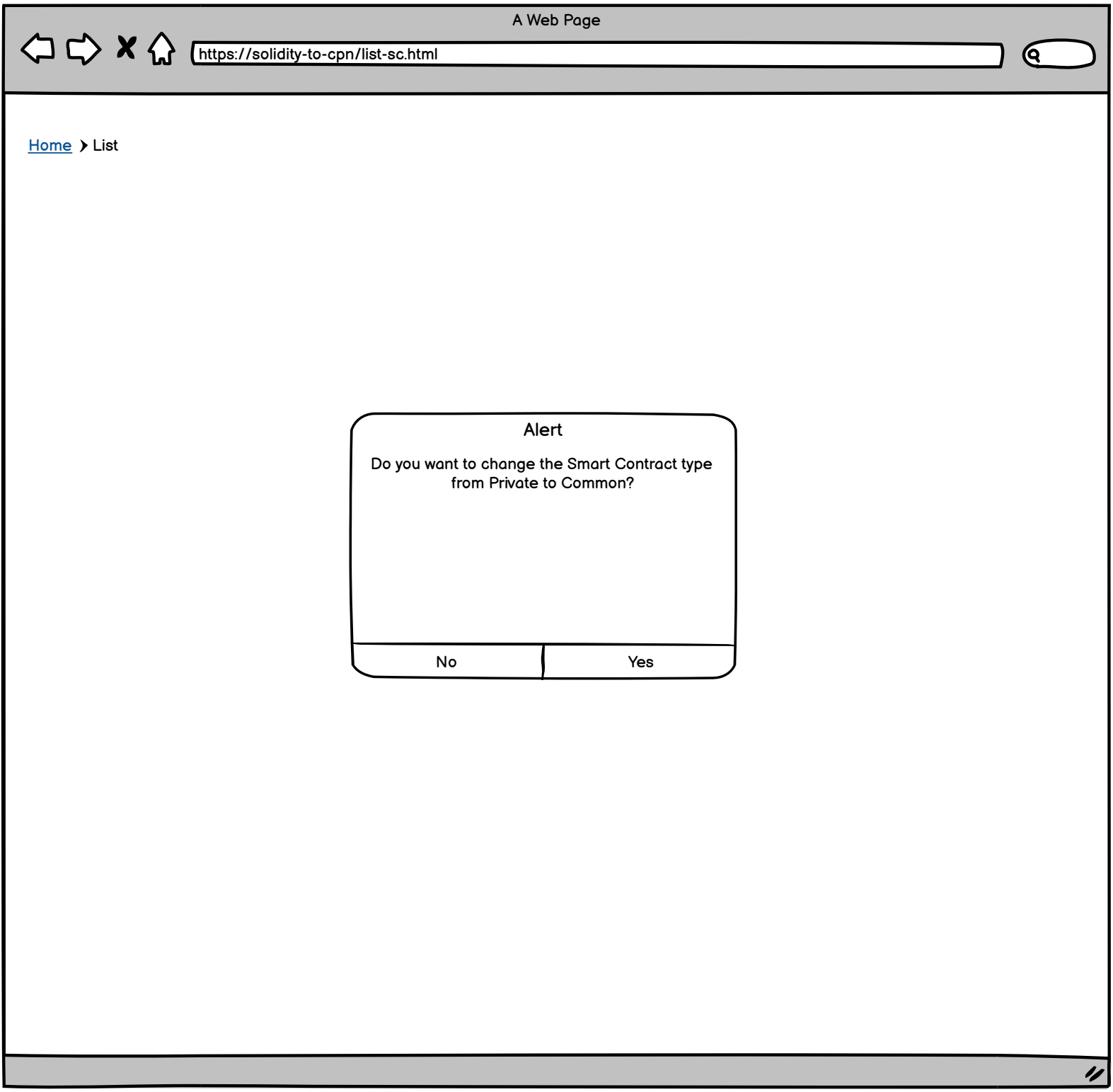
Back

Footer

## //

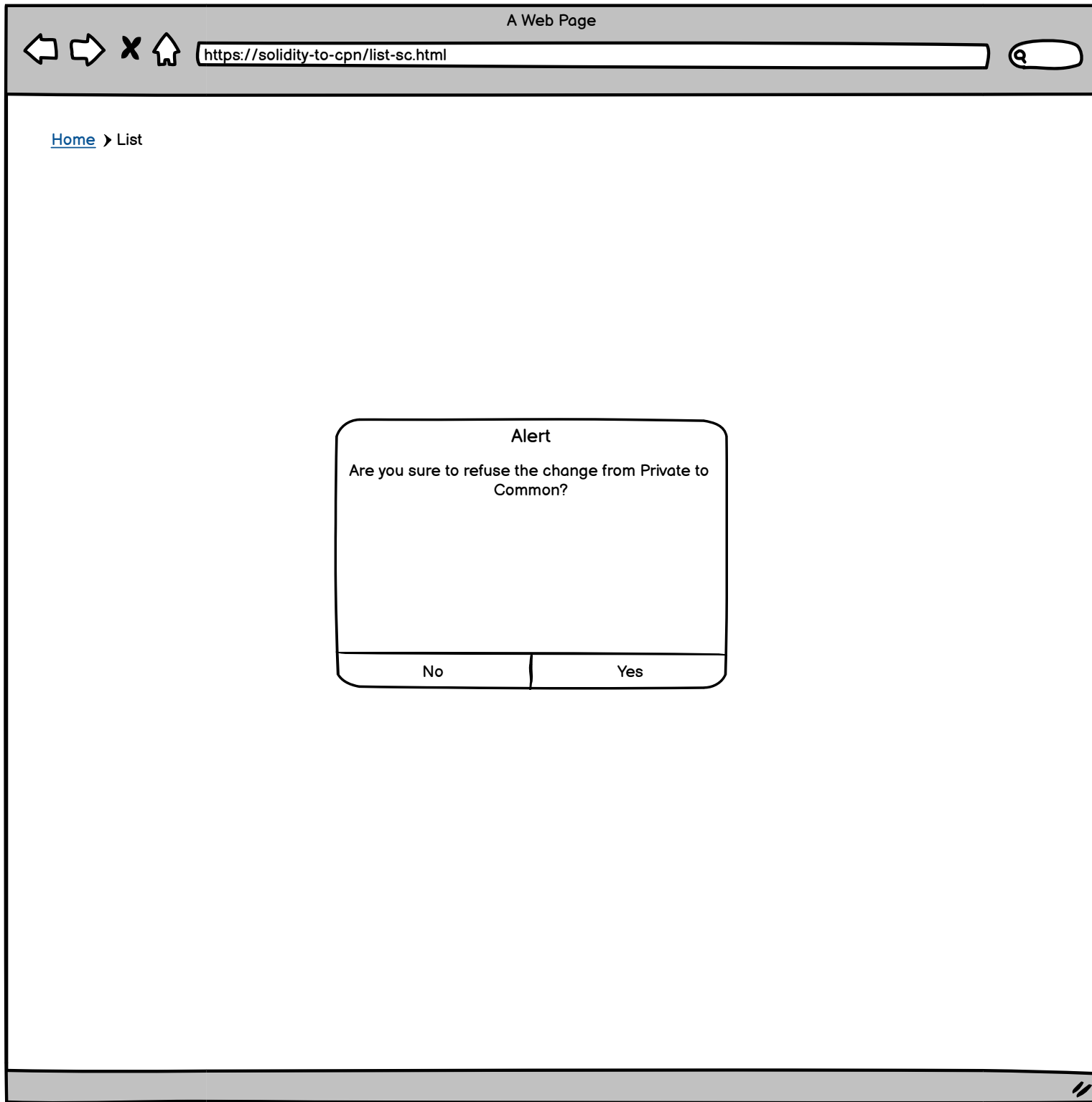


32a





32b



33

A Web Page

https://solify-to-cpn/add-sc.html






[Home](#) > Add


## Create a new Smart Contract code


Name


Smart Contract Type


- Common
- Private
- Pending

**B I U S** *style*     









Admin can create a new smart contract type in any types

## Edit the Smart Contract code

|                  |
|------------------|
| Smart contract 1 |
|------------------|

|        |  |
|--------|--|
| Common |  |
|--------|--|

|         |
|---------|
| Common  |
| Private |
| Pending |

Admin can change the smart contract type  
from private to common  
If user requested to change the SC type  
from  
private to common, the type will be Pending


## Content

**B I U S** style ▼                                                                                                                                              

\_\_\_\_\_

\_\_\_\_\_

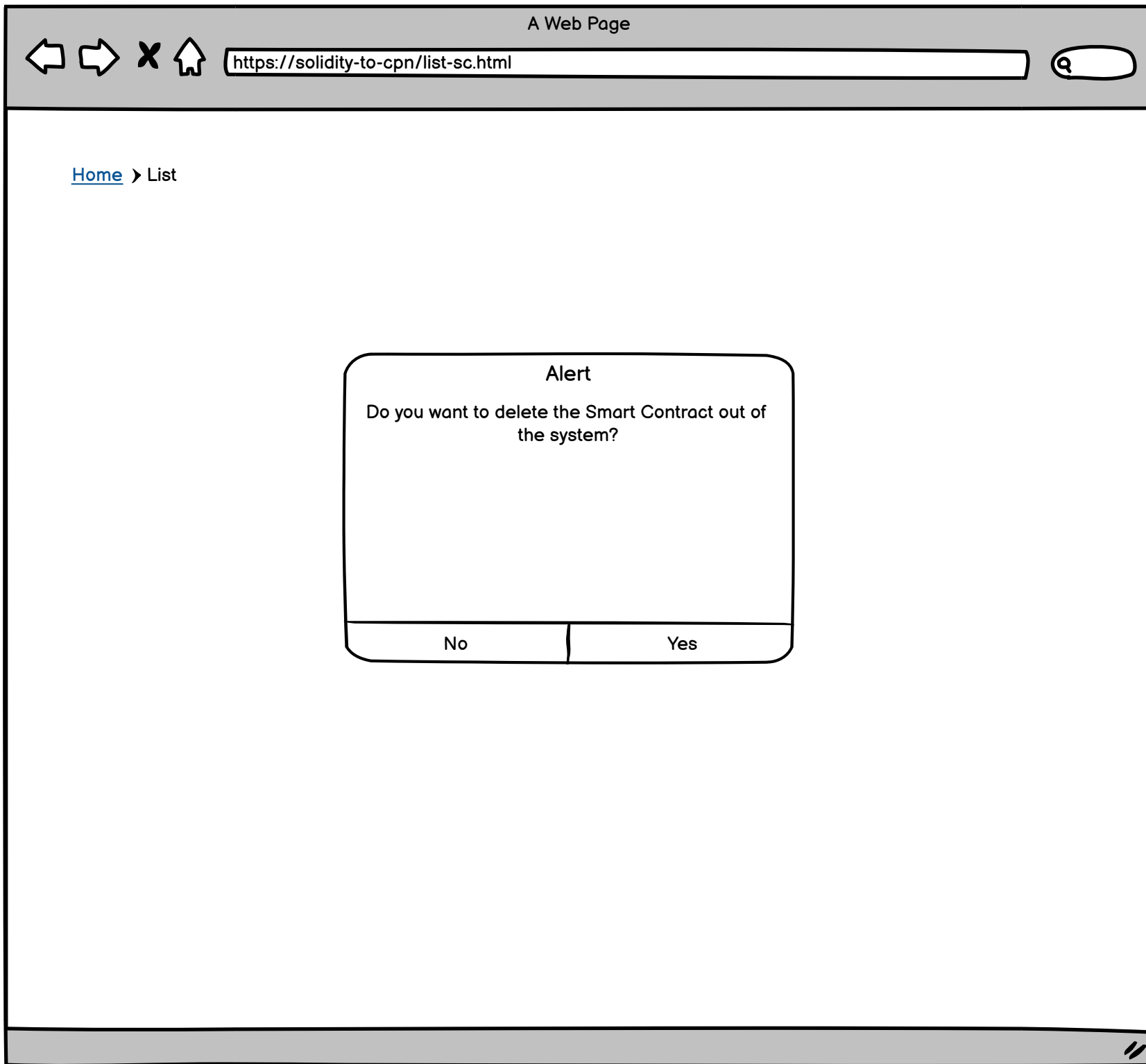
### Description



Save

Cancel

32c



The smart contract CRUD page of normal user

[Home](#) ➤ [List](#)

10/10/2021

| OCTOBER 2021 |    |    |    |    |    |    |
|--------------|----|----|----|----|----|----|
| S            | M  | T  | W  | T  | F  | S  |
| 26           | 27 | 28 | 29 | 30 | 1  | 2  |
| 3            | 4  | 5  | 6  | 7  | 8  | 9  |
| 10           | 11 | 12 | 13 | 14 | 15 | 16 |
| 17           | 18 | 19 | 20 | 21 | 22 | 23 |
| 24           | 25 | 26 | 27 | 28 | 29 | 30 |
| 31           | 1  | 2  | 3  | 4  | 5  | 6  |

Private

Private  
Pending

Normal users can only manage the private and pending smart contracts.

Add

35

36

A Web Page

https://solifity-to-cpn/add-sc.html

Q

[Home](#) > Add

Create a new Smart Contract code

Name

Smart contract 1

Smart Contract Type

☐ Pending

☒ Private

Content

B I U S style

Description

Save

Cancel

Normal user can request to change a private smart contract to become a common one. Default is Private

[Home](#) ➤ [Edit](#)

Smart contract 1

© Private

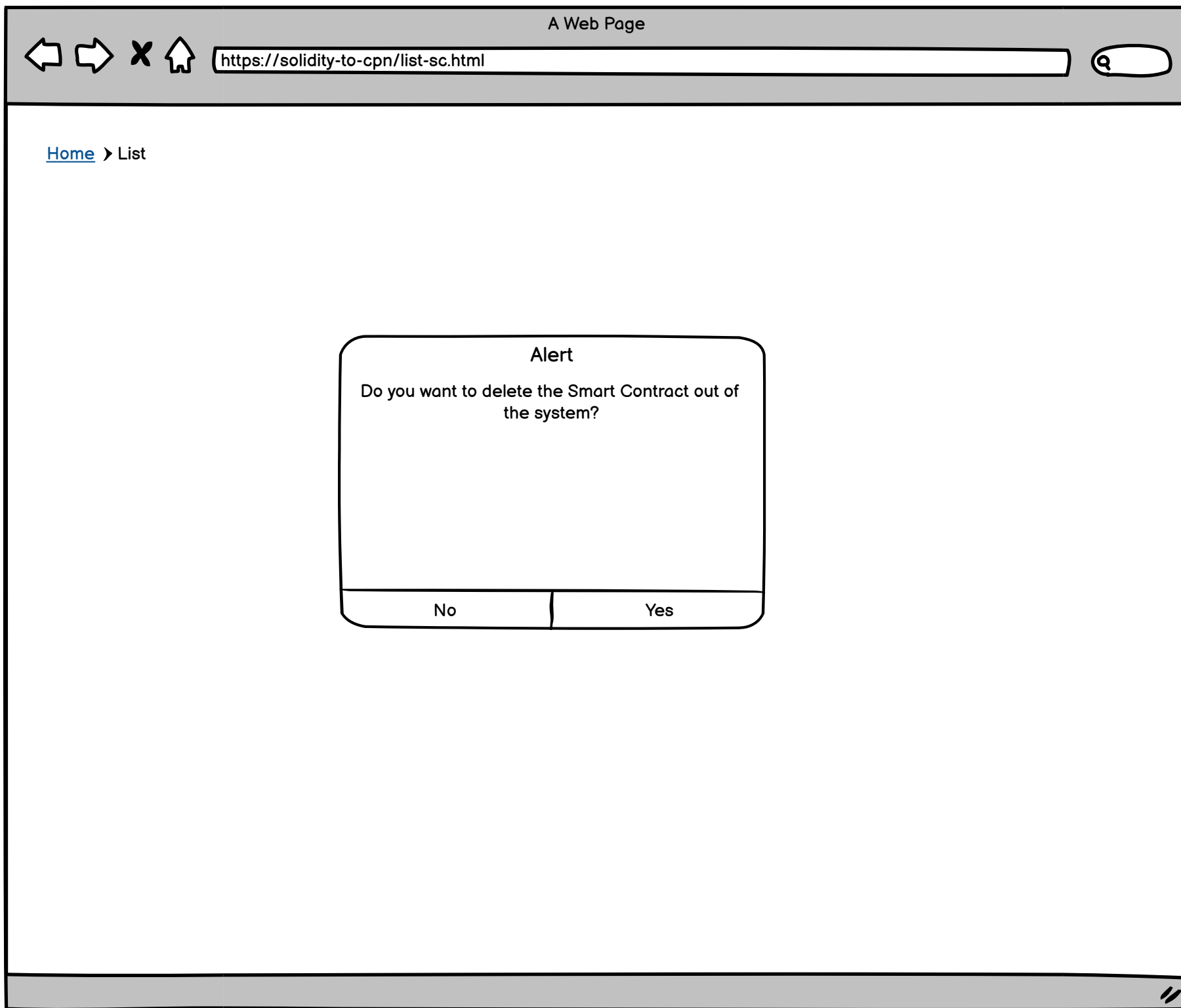
**B I U S** style ▼   

~~XXXXXXXXXXXX~~

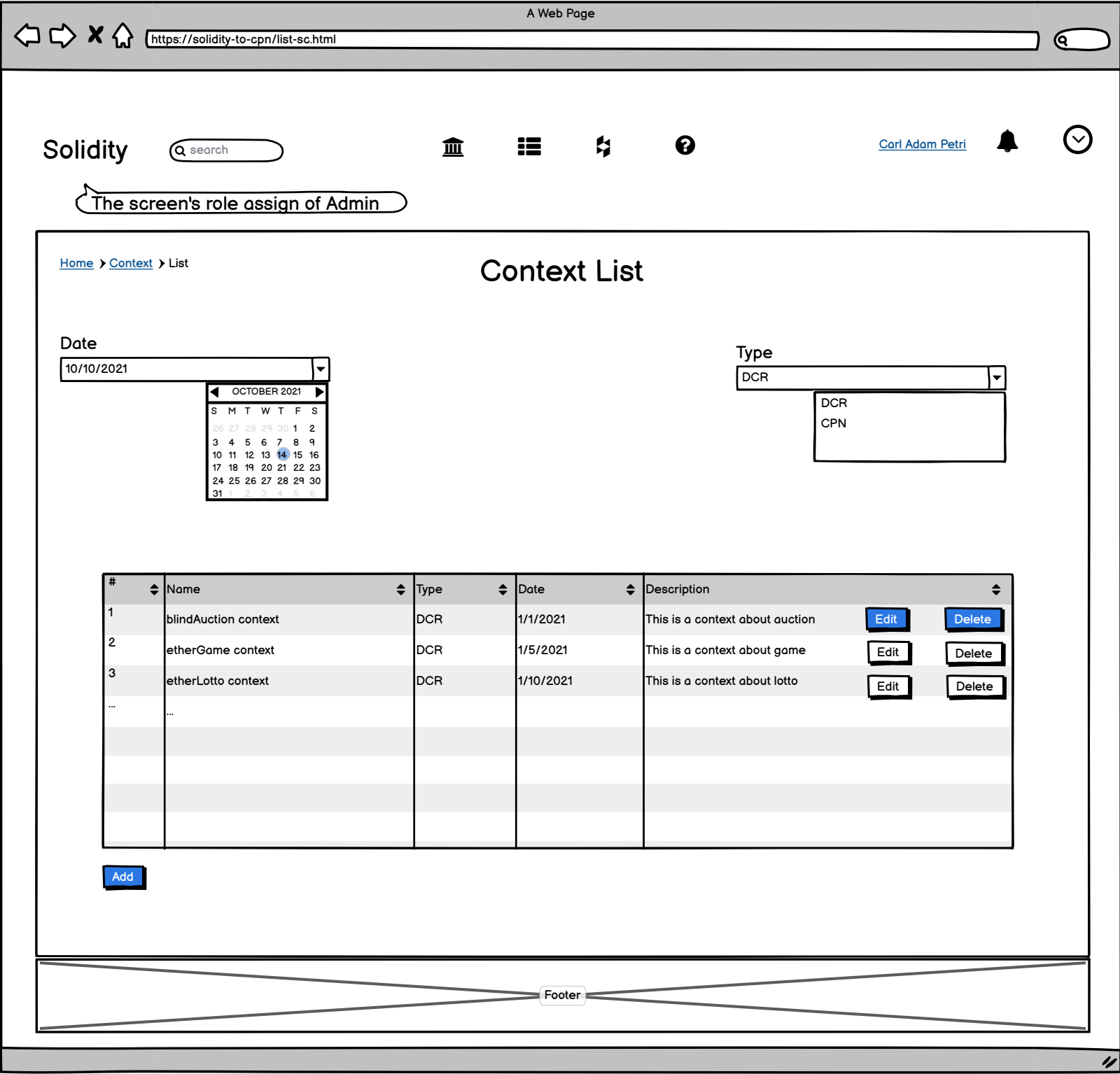
~~XXXXXXXXXXXX~~

Cancel

35a







39

A Web Page

X

https://solify-to-cpn/add-context.html

Q

[Home](#) > Add

Create a new Context

Name

Context ABC

Type

DCR

DCR

BPMN

Description

Content

C:/abc/xyz/Context.xml

Save

Cancel

40

A Web Page

X

https://solify-to-cpn/edit-context.html

Q

[Home](#) > Edit

Update the Context

Name

Context ABC

Type

DCR

DCR

BPMN

Description

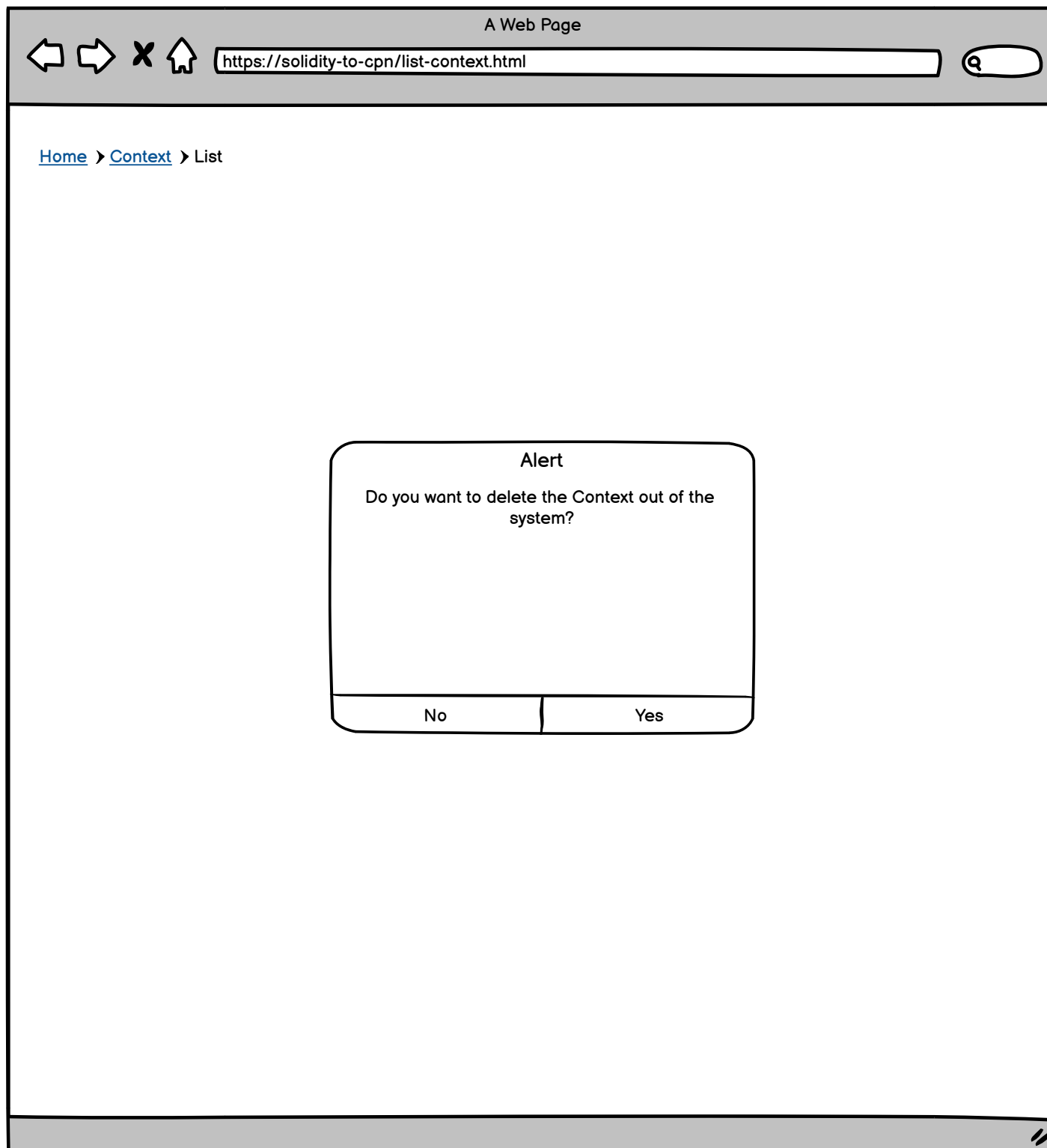
Content

C:/abc/xyz/Context.xml

Save

Cancel

38a



41

https://solidity-to-cpn/list-ltl.html

Solidity

search

[Carl Adam Petri](#)

The screen's role assign of Admin

Home

LTL

List

LTL Property Template List

Date

10/10/2021

OCTOBER 2021

S

M

T

W

T

F

S

26

27

28

29

30

1

2

3

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

19

20

21

22

23

24

25

26

27

28

29

30

31

1

2

3

4

5

6

Type

CSP

CSP

Vulnerability

| #   | Name           | Type | Date      | Description |
|-----|----------------|------|-----------|-------------|
| 1   | LTL property 1 | CSP  | 1/1/2021  | bla bla     |
| 2   | LTL property 2 | CSP  | 1/5/2021  | bla bla     |
| 3   | LTL property 3 | CSP  | 1/10/2021 | bla bla     |
| ... | ...            |      |           |             |
|     |                |      |           |             |
|     |                |      |           |             |
|     |                |      |           |             |
|     |                |      |           |             |
|     |                |      |           |             |
|     |                |      |           |             |

Add

Footer

42

A Web Page










https://solify-to-cpn/add-ltl.html



Home > LTL > Add

## Create a new LTL Property Template




Name

Formula

**B I U**         

Description

43

A Web Page

https://solify-to-cpn/edit-ltl.html

[Home](#) > [LTL](#) > Edit

Update the LTL Property Template

Name

Livelock

Formula

B

I

U

S

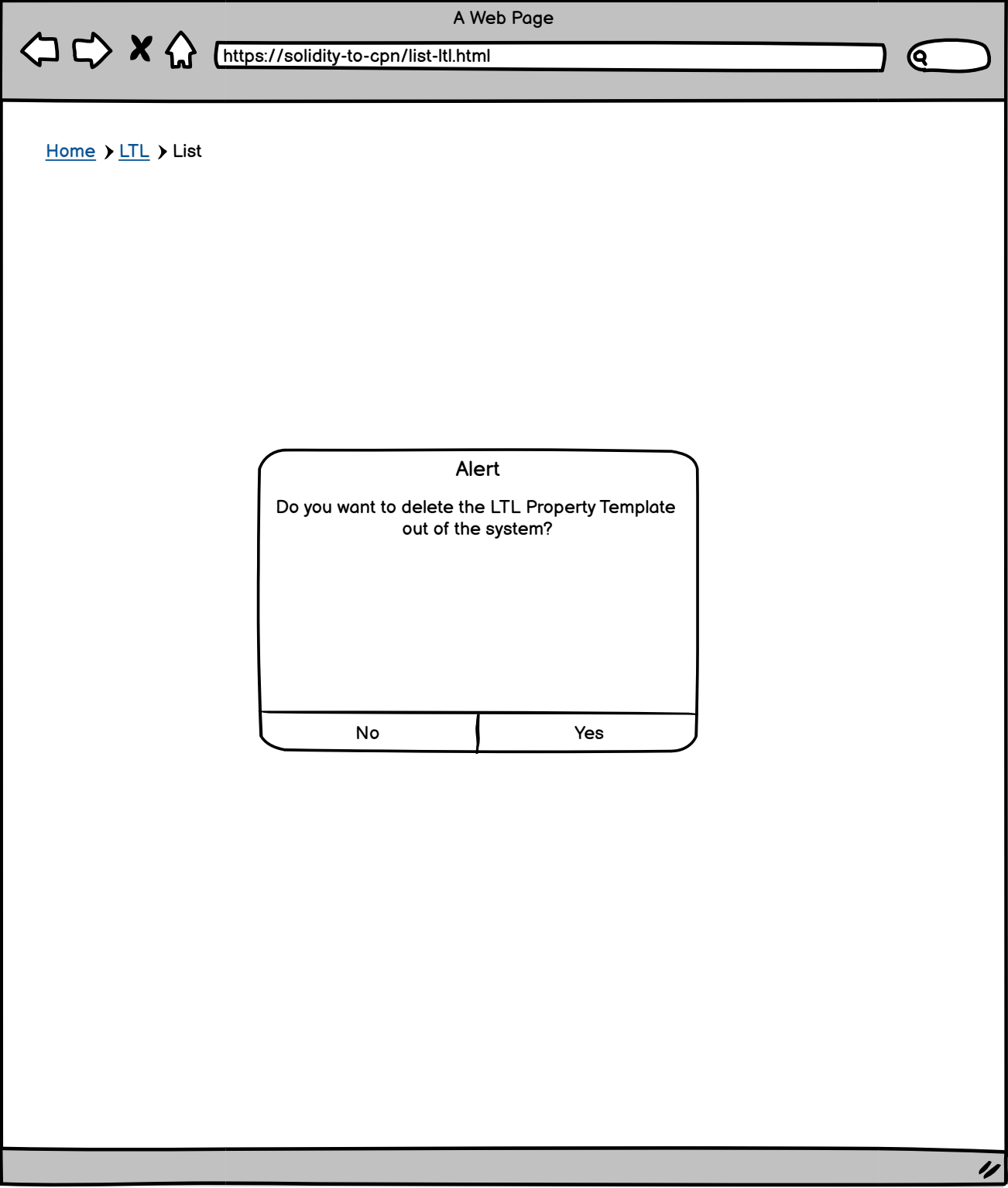
style

Description

Save

Cancel

41a





A Web Page

https://solidity-to-cpn/roadmap.html

[Home](#) > Roadmap

# Roadmap

Starts

Select Smart Contracts

Select Context

Choose Vulnerability

Generate SC to CPN

Check the SCs

Finished

The syntax of the Smart Contract is not correct. You can go back and check the formular before going to the next steps.