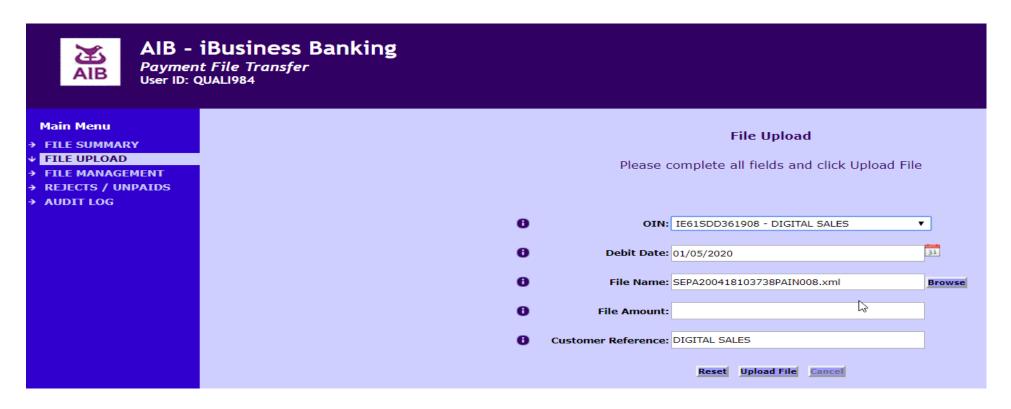


SEPA XML GENERATOR – INTERACTIVE DESIGN PROJECT – Diarmuid Haughian

Interactive Design Project Introduction SEPA XML GENERATOR

SEPA XML GENERATOR is:

- B2B Financial Software
- The software only has one defined purpose
- It can generate an XML file used by customers to take direct debits payments from clients
- The XML File contains information on customers such as: Collection Date, Debit Amount, BIC, IBAN, etc.
- Once Generated the file is uploaded to a businesses Online Banking System, such as:



A Successful SEPA XML FILE will look like:

```
C:\Users\me\Downloads\SEPA200424082957PAIN008 (1).xml
                                                                                                                           - C
C:\Users\me\Downloads\SE... ×
  <?xml version="1.0" encoding="UTF-8"?>
 - <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.008.001.02" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance">

    <CstmrDrctDbtInitn>

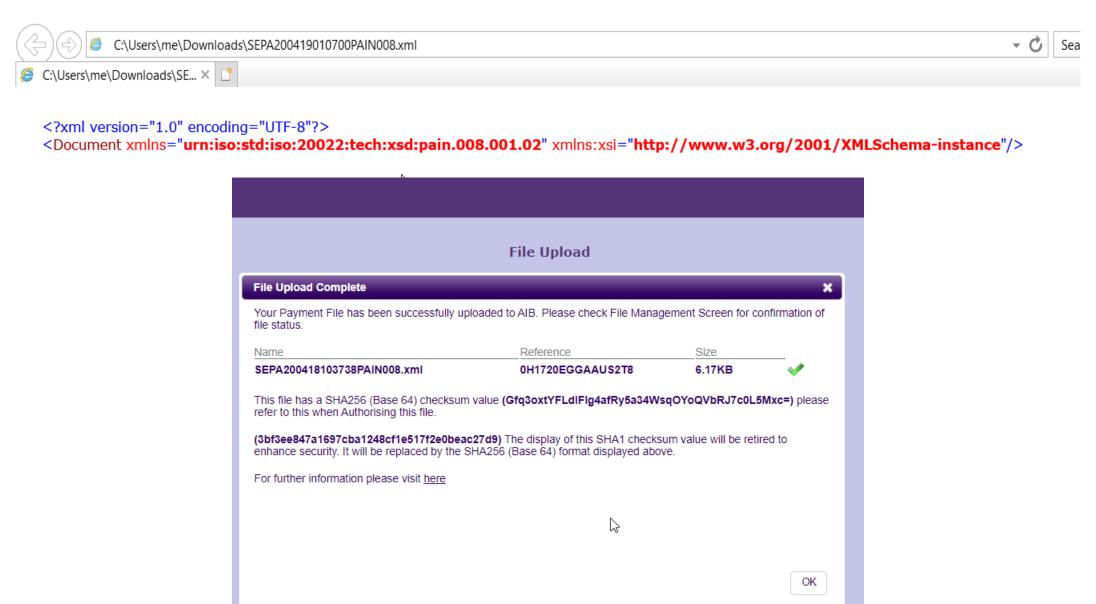
       - <GrpHdr>
            <MsgId>DIG200424082957</MsgId>
            <CreDtTm>2020-04-24T08:29:57</CreDtTm>
            <NbOfTxs>1</NbOfTxs>
            <CtrlSum>50.00</CtrlSum>
           <InitgPty>
              - <Id>
                 - <OrgId>
                     - <Othr>
                         <Id>db</Id>
                      </Othr>
                   </OrgId>
                </Id>
            </InitgPty>
         </GrpHdr>
       - <PmtInf>
            <PmtInfId>DIGRCUR200424082957/PmtInfId>
            <PmtMtd>DD</PmtMtd>
            <BtchBookg>true</BtchBookg>
            <NbOfTxs>1</NbOfTxs>
            <CtrlSum>50</CtrlSum>
           - <PmtTpInf>
              - <SvcLvl>
                   <Cd>SEPA</Cd>
                </SvcLvl>
              - <LclInstrm>
                   <Cd>CORE</Cd>
                </LclInstrm>
                <SeqTp>RCUR</SeqTp>
              <CtgyPurp>
                   <Cd>CASH</Cd>
                </CtgyPurp>
            </PmtTpInf>
            <ReqdColltnDt>2020-04-27</ReqdColltnDt>
           - <Cdtr>
               <Nm>abc ltD</Nm>
              - <PstlAdr>
```

<Ctry>IE</Ctry>

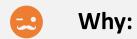
</PstlAdr>

<AdrLine>123 FAKE ST</AdrLine>

A Unsuccessful SEPA XML FILE will look like and will be rejected when submitted to the companies Bank:







SEPA XML GENERATOR believes users are having difficulty with the system

Goals & Objectives of Research:

Identify the Primary Pain Points – Formulate Solutions – Apply and Test

	osci / marjaca	31101111111303	
	Two Types of Research:	User Maps	
	Questionnaire to understand concerns users of competitors	Empathy Map	
	solutions may have	Story Boards	
	Define three system tasks and video record cursor actions and		
	verbal thoughts of test users	Affinity Maps	
	Collate data, document and identify issues		
1 Day	Product Assessment	As Is User Flow	Diarmuid
23.03.2020	Assessment of the software as is, define the most pressing	Heuristic Evaluation	
23.03.2020	issue and how can it be resolved?	Treatistic Evaluation	
2 Days	Strategy Workshop & Recommendations	To Be User Flow	Diarmuid
24.03.2020 and 25.03.2020	Address the most pressing concerns		
1 Day	Recommendations	Hand Sketched Wireframes	Diarmuid
26.03.2020	Sketch User Wireframe	Low Fidelity Wireframes	
3 Days	Initial Concepts agreed and Designed	Design Concept	Diarmuid
27.03.2020 to 31.03.2020			
14 Days	Designs and UX Improvements Applied to Live System	Changes to Live System	Software Development Team
01.04.2020 to			
15.04.2020			

Initial User Research: The software target audience is typically:

- Small Business Owners with 1 to 10 staff members and in some cases up to 50 employees
- Entrepreneurs and Start Up businesses with recurring revenue customers
- Target Geographic: European States which are under the SEPA Umbrella
- End Users: Business Owners, Administration or Finance Staff
- User Environment: Office and Desk Based using Desktop type PC's

- The Quantitative and Qualitative research focused on the potential user group define above
- Questionnaires targeted at user that use alternative solutions
- Video Recorded 3 User Tasks with Accountants and Account Admin Staff

Questionnaire Findings

Key Findings:

System backups were considered important

Security was a priority and Deleting Old XML Files was considered a security improvement

User Experience:

System Aesthetics was of little importance

User Guides and Information Popups considered very helpful

Task Completion and Video Recording

3 User Flow Tasks and One Outcome

All 3 Steps completed but ZERO successful XML Files Produced



Task 1:

Add and save your company details to the system

Definition: the bank account details for your company, which will allow your company to receive payments.

Task 2:

Add one pretend Direct Debit Customer to your account who pays 50.00 euro

Definition: A person who has signed a direct debit mandate for 50.00 euro

Take 3:

Generate an SEPA xml file for the one customer just added to the system

Definition: Selecting a date in the future for the debit to be taken from the customer account

Your Trial Login Details are:

http://sepaxmlgenerator.com/sepa-xml-login/

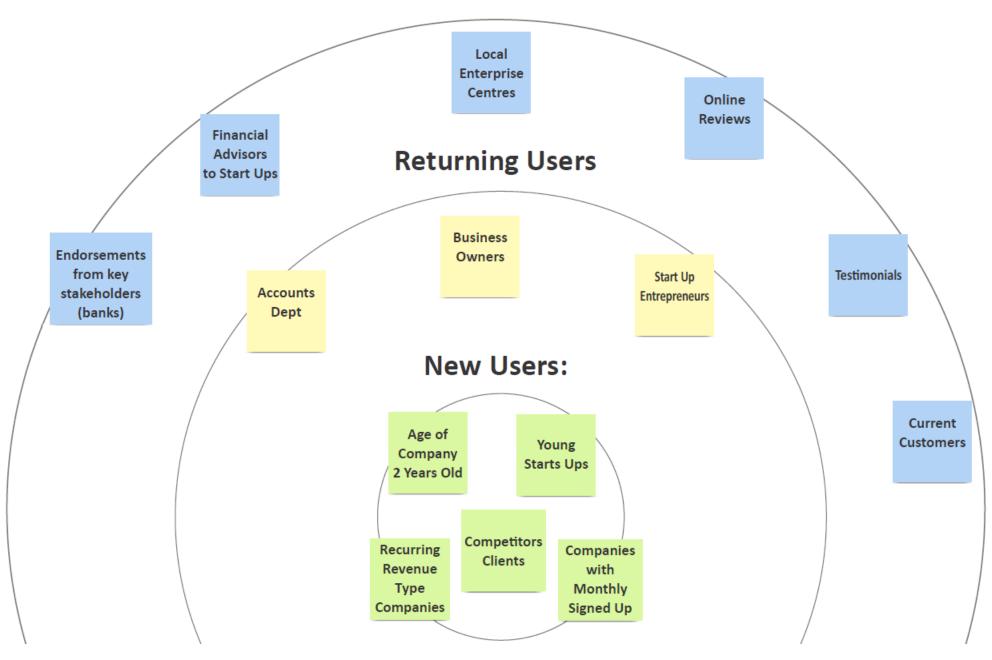
Username: trial2@sepaxmlgenerator.com Password: Trial123

Sample of Video Recording – Task Analyses – with Audio

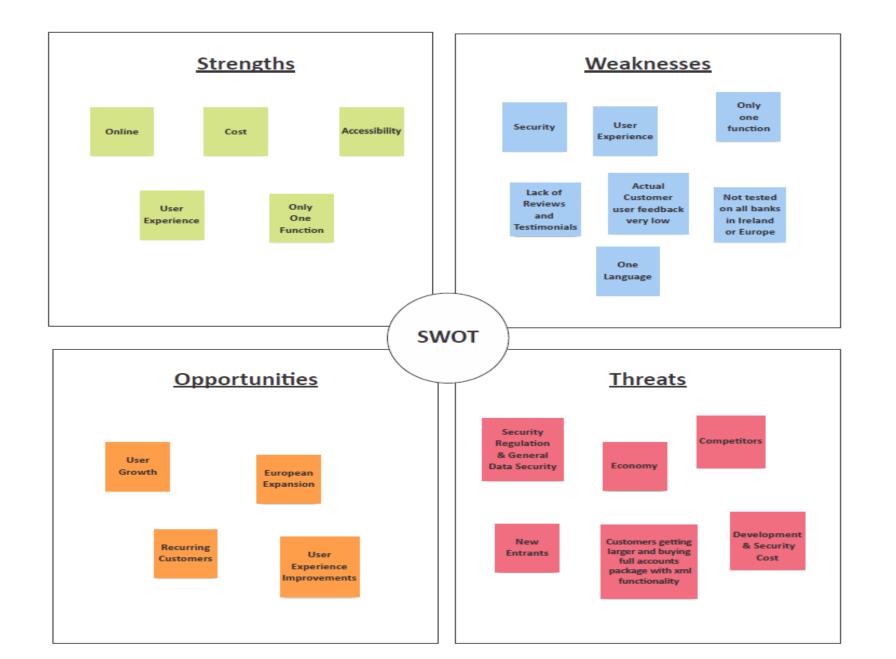


BETTER UNDERSTANDING OF THE MARKET SECTOR AND THE USERS

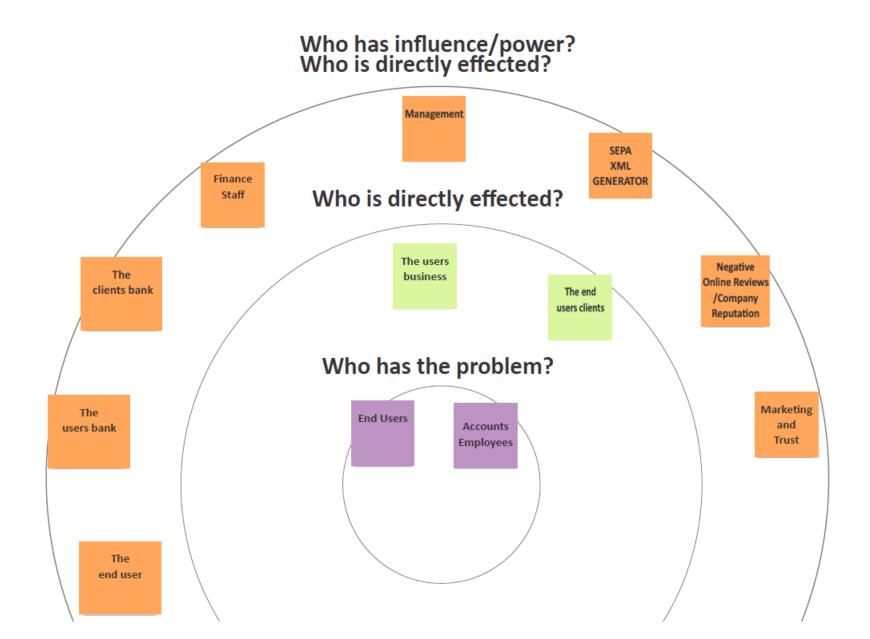
Influencers/Experts/Evangelists



SWOT Analyses – SEPA XML GENERATOR



Stakeholders Map – SEPA XML GENERATOR



UNDERSTANDING USERS, USER CONCERNS & SCENARIOS

SEPA XML GENERATOR

PROJECT: SEPA XML GENERATOR



Name: Eileen Whelan

Job / Role / Student of : Accounts Employee (Potentially Part Time)

Date: April 2020

Quote (likely to say: Easy to use and error proofed outcomes (files)

Background	Values (their priorities)	
Age: 55	Family: Very Important	
Status : Married	Time: Important	
Education : Post Primary	Money: Not as Important	
Location : Dublin	Success: Not Important	
Income : 32K	Other: Life Balance Important	

Tech Skills	Likes / Dislikes	Motivations & Influences
Usage 50% frequent Skill Level 35% expert	Things that work, improves my life, work efficiency and helps deliver on job requirements.	How my job performance can be improved? And I can justify my importance and value added to the team.
Professional un-experienced 45% experienced		

Goals

What is their goal? What job(s) do they want or need to get done?

Generate payments and invoice clients with the accounts package. No mistakes on the xml, over or under charges, essentially, NO mistakes. Mistakes equates to unhappy customers and extract accountancy work.

Pains (problem)	Gains (benefit)	
What current pain (problem) do they experience?	What would be a great outcome/success for them?	
I'm not sure where to start. Am I sure this xml has the right users and amounts on it? What do the need to be differently? Educate themselves on the software. Take more time processing the files and double check the files.	Easier to use Easier to track and verify payments/customers and amount	
What consequences are caused by this?	How might they measure success?	
Frustration Buy an Alternative Solution Mistakes and Loss of time Unhappy Customers	Reviews Surveys Referrals	

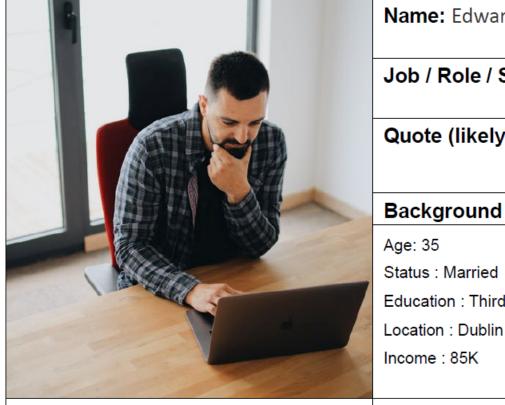
Change!

What do they need to do differently?

If it was easier to verify that the amounts and totals of the direct debits are correct, that would be great!

SEPA XML GENERATOR

PROJECT: SEPA XML GENERATOR



50%

-experienced

Professional

un-experienced-

Name: Edward Collins

Job / Role / Student of : Company Founder

Quote (likely to say: Secure, Easy to use and Accessible (always available)

Date: April 2020

Values (their priorities)

Infrequent————————————————————————————————————		Age: 35 Status : Married Education : Third Level Location : Dublin Income : 85K	Family: Important Time: Very Important Money: Important Success: Extremely Important Other: Business Growth
Infrequent————————————————————————————————————	Tech Skills	Likes / Dislikes	Motivations & Influences
Skill Level 60% Dislikes: Problems, overpromises and costs. outgoings.	Infrequent—————————frequent	Getting Payments and Sales.	So, I can manage cash flow better and meet

Goals

What is their goal? What job(s) do they want or need to get done?

Add new customers quickly, confirm the debit amounts and generate the sepa xml file. Push these transactions into the company accounts software. No mistakes.

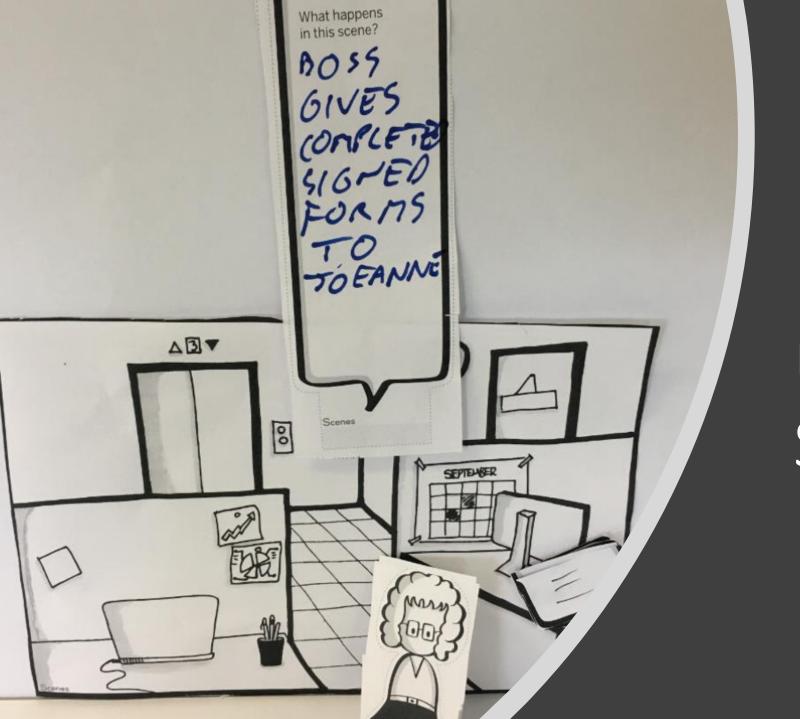
Pains (problem)	Gains (benefit)	
What current pain (problem) do they experience?	What would be a great outcome / success for them?	
How secure is this? Is this a reputable company? Are my customers banking details secure? And mine? I can't remember how to use this again, how do I add a customer again?	Increased Security Settings More Instructional User Flow – Steps to Add a user Quick User Video Links	
What consequences are caused by this ?	How might they measure success?	
Fear regarding sensitive data Lack of Trust Frustration Buy an Alternative Solution	Better User Experience Time it takes to Add a New Customer Extra Security Features	

Change!

What do they need to do differently?

A bit of double entry with the Customers which is a little annoying could be removed, but a quick refresher video would be also be handy, as I only use the system once a month.









HEURISTIC EVALUATION OF CURRENT SYSTEM AND AS IS USER FLOW

Heuristic Evaluation – SEPA XML GENERATOR

Visibility

The are no visible breadcrumbs or process steps for the user to follow in order to generate a file, the user must make assumptions.

Mapping

Links should be more description, such as: Home/Dashboard, My Customers, Archived XML Files. Regularly used Links should appear at the top of the sequence

Freedom

There are good exit navigation throughout the application and ample edit and undo features which are very accessible.

Consistency

The application offers users one function, and the language used is particularly direct and consistent.

Error Prevention

The user flow has the potential to create errors unbeknown to a new user. There are no information/educational prompt against fields.

Recognition

The left hand menu allows for good recognition and is easily retriable. However, there are no information videos for user who may use the system once a month.

Flexibility

Users have good access to quickly edit monthly direct debit amounts. There is no grouping for users to select a predefined group of customers, which would make the system more efficient.

Minimalism

There are fields which are not required in order to generate the file for example a Postal Address. There are too many decorative fields which are not required.

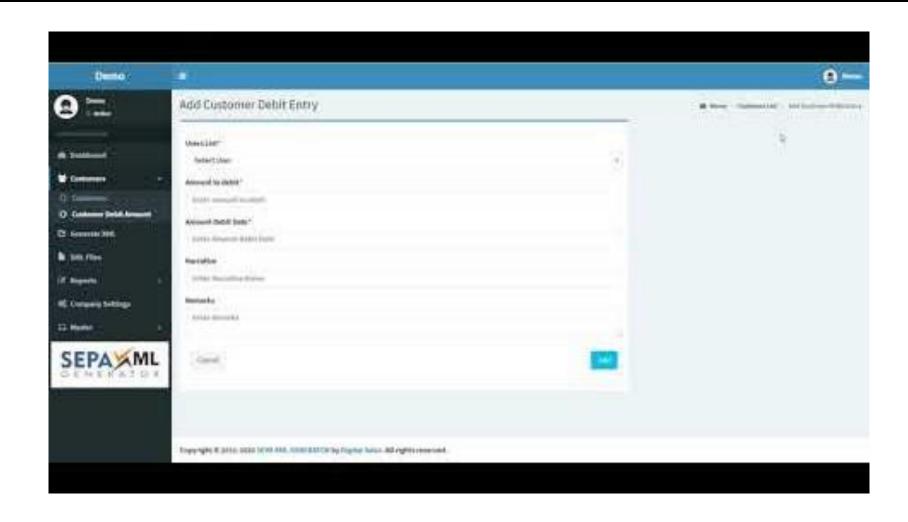
Error Recovery

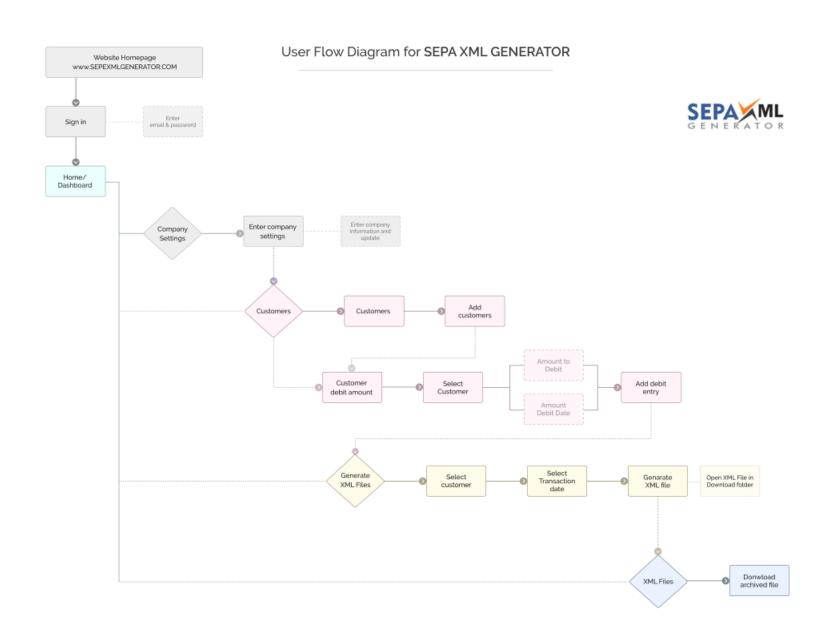
Xml files are generated with no amounts, which should trigger an error message, IBAN numbers have a predefined length, but a failsafe is not within the application.

Help

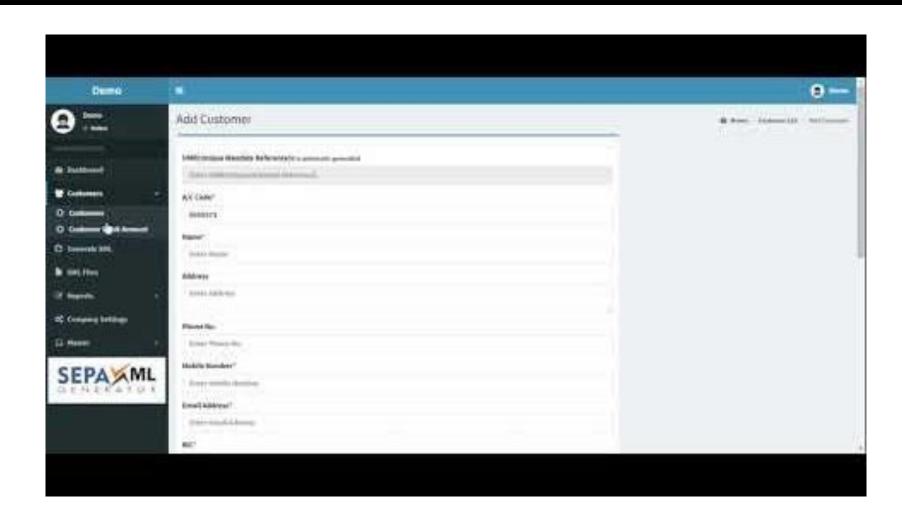
There are no help videos or users manuals within the system.

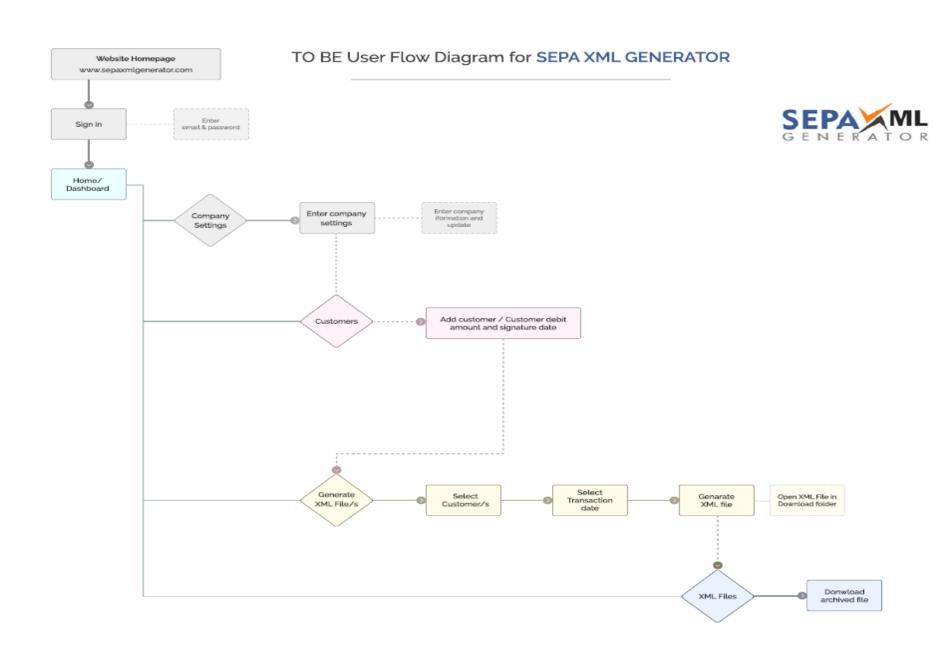
CURRENT SYSTEM



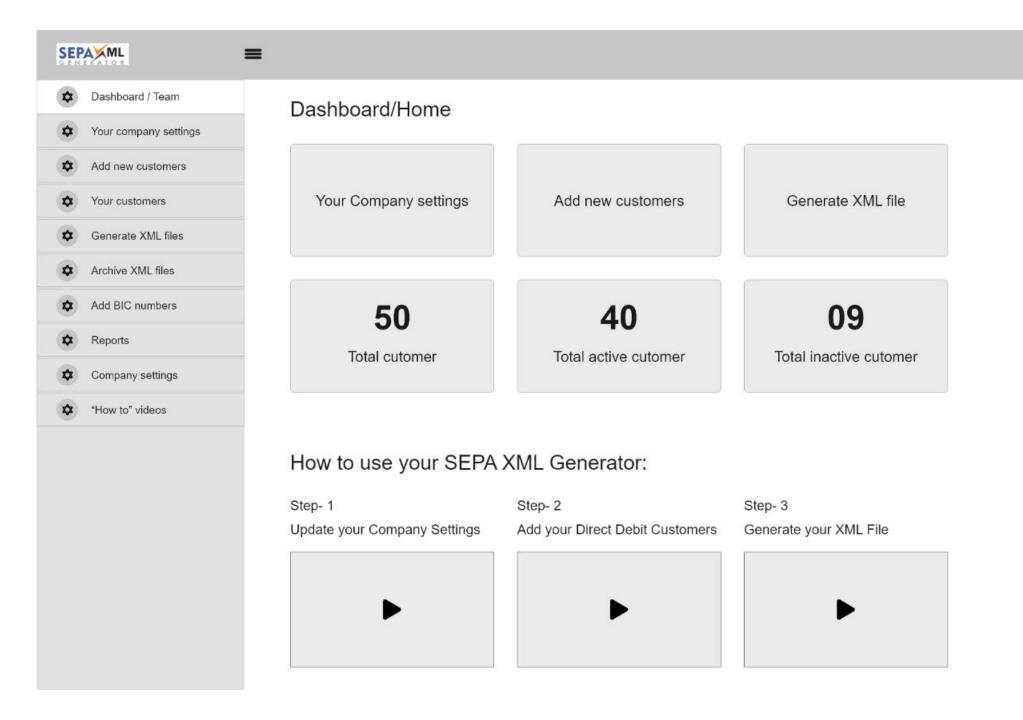


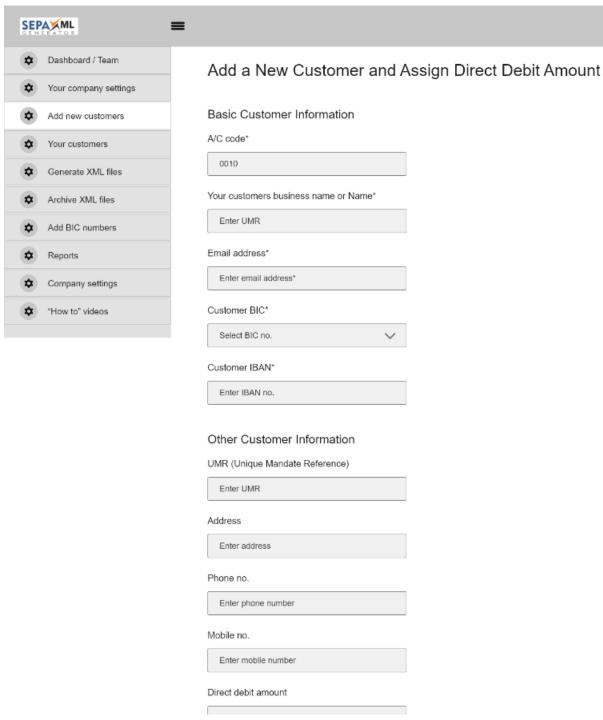
MAJOR PAIN POINT





WIREFRAME IDEA SOLUTION – DASHBOARD AND ADDING A CUSTOMER











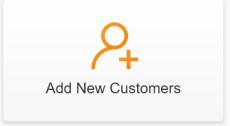
Dashboard / Home Your Company Settings Add New Customers Your Customers Generate XML Files Archive XML Files Add BIC Numbers Reports

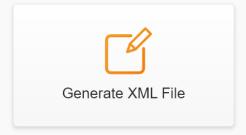
Company Settings

"How to" Videos

Dashboard/Home













How to use your SEPA XML Generator:

Step- 1
Update your Company Settings



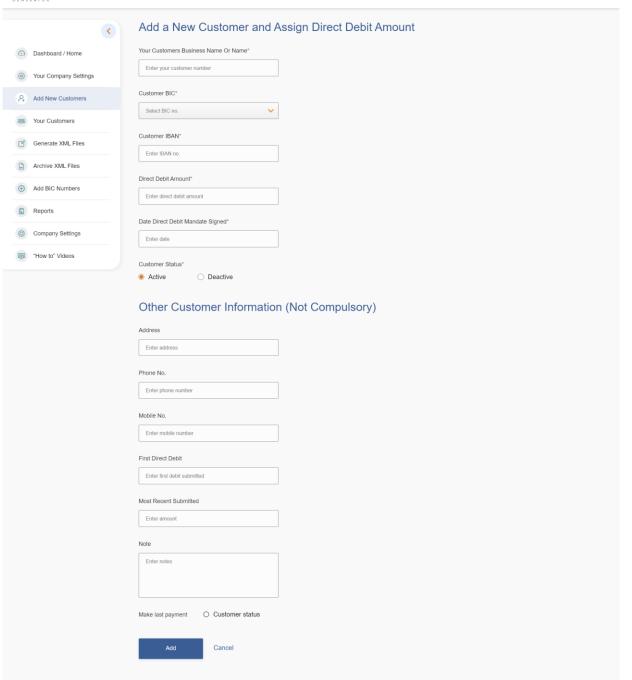
Step- 2
Add your Direct Debit Customers



Step- 3
Generate your XML File







INITIAL TESTING ON APPLIED USER EXPERIENCE UPDATES – VIDEO

Task 1:

Add and save your company details to the system

Definition: the bank account details for your company, which will allow your company to receive payments.

Task 2:

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Definition: A person who has signed a direct debit mandate for 50.00 euro

Take 3:

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Your Trial Login Details are:

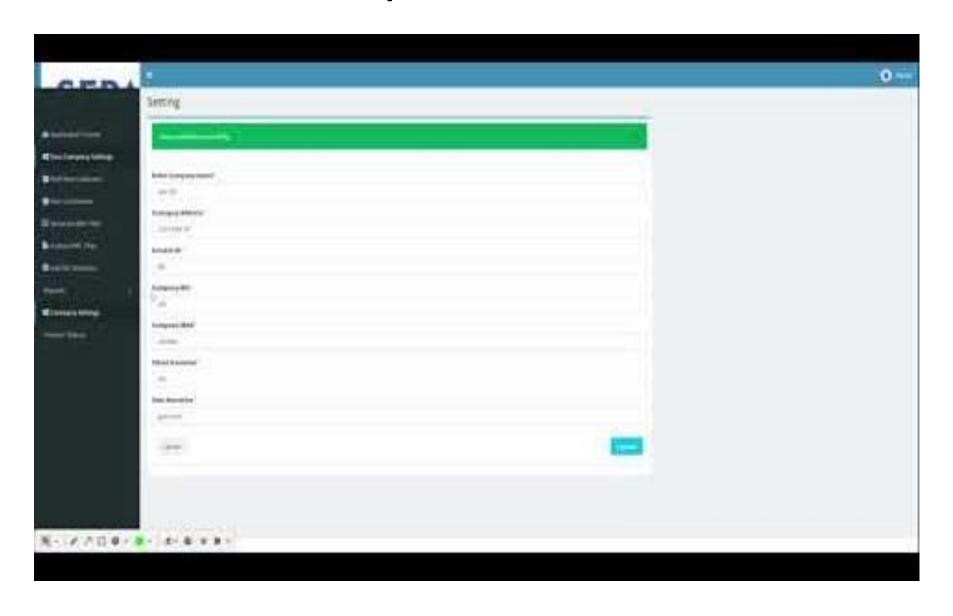
http://sepaxmlgenerator.com/sepa-xml-login/

Username: <u>trial2@sepaxmlgenerator.com</u> Password: Trial123



<?xml version="1.0" encoding="UTF-8"?> <Document xmlns="urn:iso:std:iso:20022:tech:xsd:pain.008.001.02" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"> - <CstmrDrctDbtInitn> - <GrpHdr> <MsgId>DIG200424082957</MsgId> <CreDtTm>2020-04-24T08:29:57</CreDtTm> <NbOfTxs>1</NbOfTxs> <CtrlSum>50.00</CtrlSum> - <InitgPty> - <Id> - <OrgId> - <0thr> <Id>db</Id> </Othr> V </OrgId> </Id> </InitgPty> </GrpHdr> - <PmtInf> <PmtInfId>DIGRCUR200424082957/PmtInfId> <PmtMtd>**DD**</PmtMtd> <BtchBookg>true</BtchBookg> <NbOfTxs>1</NbOfTxs> <CtrlSum>**50**</CtrlSum> - <PmtTpInf> - <SvcLvl> <Cd>SEPA</Cd> </SvcLvl> - <LclInstrm> <Cd>CORE</Cd> </LclInstrm> <SeqTp>RCUR</SeqTp> - <CtgyPurp> <Cd>CASH</Cd> </CtgyPurp> </PmtTpInf> <ReqdColltnDt>2020-04-27</ReqdColltnDt> - <Cdtr> <Nm>abc ltD</Nm> - <PstlAdr> <Ctry>IE</Ctry> <AdrLine>123 FAKE ST</AdrLine> </PstlAdr>

A Successful File Completion – First User Trial Result



CONCLUSIONS

CONCLUSIONS



It is difficult to find relevant users within the B2B Space



Competitor Analyses is almost impossible due to getting access to protected software



B2B Users appear more concerned about results and getting the job done



Potential Test Candidates have issues undertaking research concerning security



The UX is geared towards one type of user, at one stage in the Customer Journey



Prospects who are using competitor products will need alternative functionality, for example, they will need to upload their current customers



From a Reflective perspective – the process forced me to step back from my prefixed assumptions