FUNCTIONAL DESIGN

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ECS INTERNATIONAL v1.1

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Introduction:

In this Document will be described What functions should be included in the project which ones are excluded. This Project is for ECS international and realized by ECS International. This Document is a Continuation of "Requirement_Gathering_v1.3".

Goal(s):

The goal of this project is to lighten the workload of W.Beekhuis by automatically generating Reports monthly for each client from counting's from there databases. Sending these reports to AFAS automatically. From these reports are then invoices being made. If the client wants to they can see a history of their message traffic brief or detailed.

People concerned:

People who are included in this project and there function.

Name	Function	Email
R.Westenberg	Intern Developer	rowan.westenberg@ecsinternational.eu
A.Ras	Developer	anton.ras@ecsinternational.eu
M.Blazey	Supervisor	michael.blazey@ecsinternational.eu
N.Van Kampen	Customer/Supervisor	nijac.van.kampen@ecsinternational.eu
W.Beekhuis	Customer	wander.beekhuis@ecsinternational.eu
J. Weerdmeester	Customer	jos.weerdmeester@ecsinternational.eu

Functional roadmap:

1. Once a month start the process of Making an invoice by also giving the current month and year
2. Do a Count on the databases from Harmony and X4Connect with the filters of Previous month+year, trading partner, success, no AS4 Protocol and no LCopy's
   a. Potential errors
      i. Data is overlapping
         1. Solution: Use more filters for the search of the correct data
      ii. There is no data
         1. Solution: Return a notification to the user
         2. Solution: let the counting be 0
         3. Solution: Show a page that the reference doesn't exists
3. If the client wants a detailed report; you do a query on databases Harmony and X4Connect with the filters of Previous month/, trading partner, success, no AS4 Protocol and no LCopy's
   a. Potential errors:
      i. Trading partner does not exist in one or both databases
         1. Solution: set the calculations on 0 and continue
      ii. Returning is too big to be managed
         1. Solution: Paginate the data so it is easier to manage
      iii. Database is unapproachable
         1. Solution: send a notification towards the user that the database is currently unavailable
4. Transforming this data into JSON so it is Injectable into AFAS with the correct mapping of data. The data to be mapped is:
   a. Date
   b. Partner number
   c. X4Connect Total
   d. Harmony Total
   e. Potential Errors
      i. Data mapping mismatched
         1. Solution: Redo the mapping in the project
5. Send this JSON format with a web service towards AFAS
   a. Potential errors
      i. AFAS API unapproachable
         1. Solution: send a notification towards the user that the API is currently unavailable
6. When AFAS has received the data correctly we send a notification towards the user.
   a. Potential errors:
      i. The data isn't received correctly

1. Solution: send notification to the user with error message.
7. If there is any Error do a retry of the process in 30 seconds if this fails as well retry the process in 30 minutes
8. After the second retry if it still fails send notification to the user with error message and a LOG with the steps that the process took.

Functionalities:

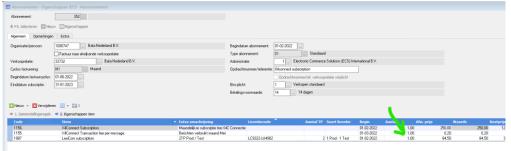Described Briefly on basses of "Requirement_Gathering_v1.3".

Functionality	Must	Should	Could	Wont
User/client sees brief history of their message traffic	X			
User gets an automated reports in AFAS portal	X			
Client sees Detailed history of message traffic				X
Invoices will be automatically made on basses of the brief report				X

FeedBack:

Goedemorgen Rowan, Zoals net in teams besproken zijn we even kort door je design gegaan. De hoofdpunten die ik als klant graag wil zijn:

1. Een overzicht waarin per aansluitnummer de totalen per maand worden weergegeven. Of dit in het huidige overzicht kan worden gepushed of dat dit in een nieuw te maken vrij bestand kan moet je even verder uitvragen bij Jos.
2. Op dit moment is de klant BATA de enige klant die elke nieuwe maand een factuur krijgt met het verbruik van de vorige maand. Als het voor BATA mogelijk is om zijn berichten total in het abonnement te krijgen op de "aantal" regel (zie bijgevoegd plaatje).

Dat zou dan perfect zijn.

Met het oog op de toekomst dat meer klanten zoals BATA gefactureerd gaan worden zou het heel handig zijn als de functie zo te programmeren is dat nieuwe klanten ook in deze functie kunnen worden meegenomen.

Verder akkoord met het functionele plan.

Approvals:

N.Van Kampen:_____

W.Beekhuis:_____