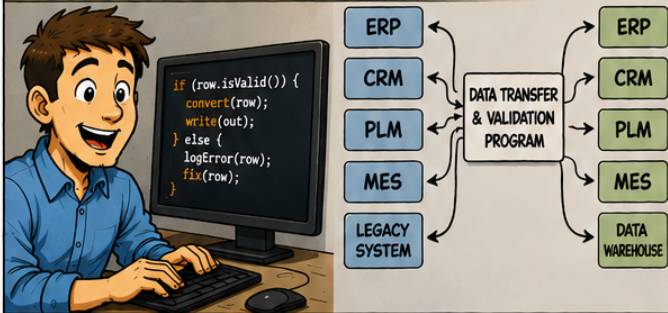
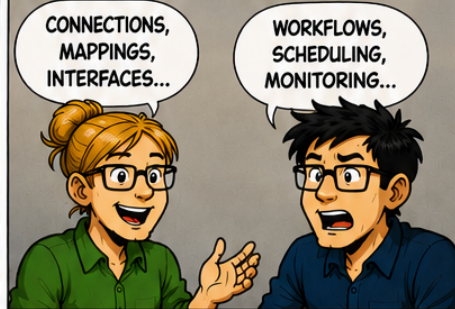


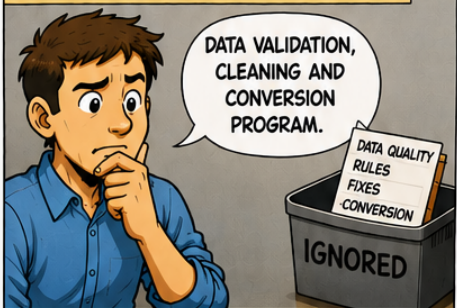
FOR YEARS, I BUILT DATA TRANSFER AND VALIDATION PROGRAMS BETWEEN ALL KINDS OF SYSTEMS.



BUT WHEN SYSTEMS CHANGED, THE PEOPLE IN CHARGE OF THE CHANGE DEALT WITH EVERYTHING INTEGRATION-RELATED...



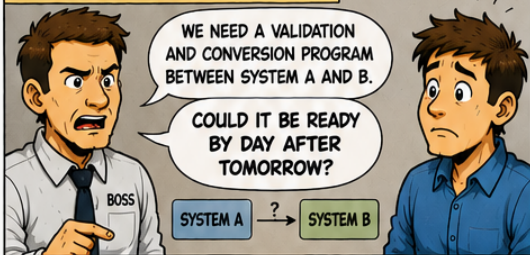
THERE WAS ALWAYS ONE THING IGNORED.



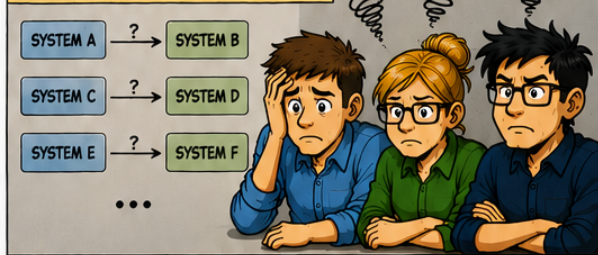
THE RESULT? RUSHED, PATCHED-TOGETHER HELPER SCRIPTS, BECAUSE THERE WAS NEVER TIME TO BUILD THE RIGHT TOOL.



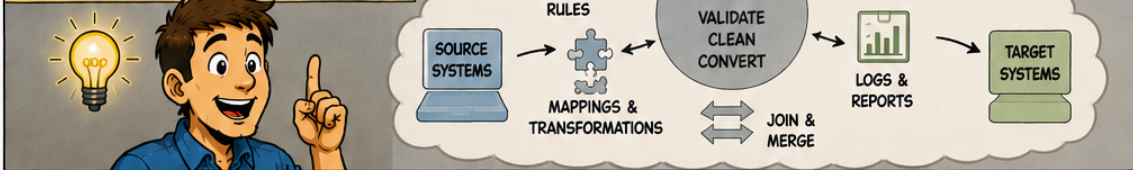
AND THIS WAS MY BOSS'S VIEW EVERY SINGLE TIME.



OVER AND OVER AGAIN. SAME STORY, DIFFERENT SYSTEMS.



I GOT TIRED OF THIS. SO I DECIDED TO BUILD A GENERIC, POWERFUL, AND EASY-TO-USE SOLUTION FOR DATA VALIDATION, CLEANING AND CONVERSION.



AND SO WE STARTED THINKING ABOUT A GLOBAL SOLUTION TO FIX THE PROBLEM ONCE AND FOR ALL.



LET'S START CONSIDERING THE PROGRAM'S FEATURES.

LET'S GO THROUGH WHAT THE PROGRAM SHOULD DO.

GREAT IDEA.

INPUT AND OUTPUT.

INPUT

- EXCEL (.XLSX)
- CSV (.CSV)

VCDF DATA GRID

OUTPUT

- EXCEL (.XLSX)
- CSV (.CSV)

THE PROGRAM ALWAYS WORKS WITH AN INTERNAL DATA GRID REGARDLESS OF THE INPUT FORMAT.

WILL THE OPERATION BE DONE USING ARTIFICIAL INTELLIGENCE?

AI?

TOO SLOW AND UNCERTAIN FOR REPEATED USE.

SO THE ANSWER IS: WE DO THE OPERATIONS WITH SCRIPTS. THE PROGRAM DOES THEM FAST, RELIABLY AND REPEATEDLY.

- ✓ SLOW
- ✓ UNCERTAIN
- ✓ EXPENSIVE
- ✓ DIFFICULT TO VERIFY
- ✓ DIFFICULT TO CERTIFY

SCRIPTING IS THE OPTION.

VALIDATION	CORRECTION	CONVERSION
<ul style="list-style-type: none"> ✓ Required fields ✓ Duplicate checks ✓ Lookups ✓ Cross-table checks ✓ Rules ✓ Business rules ✓ ... 	<ul style="list-style-type: none"> ✓ Trim spaces ✓ Fix capitalization ✓ Replace values ✓ Standardize data ✓ Normalize codes ✓ Calculate defaults ✓ ... 	<ul style="list-style-type: none"> ✓ Combine fields ✓ Split fields ✓ Map values ✓ Build new columns ✓ Create new values ✓ Export formatting ✓ ...

EVERYTHING – VALIDATION, CORRECTION AND CONVERSION – MUST BE SCRIPTABLE.

WEB APPLICATION SO THE SCRIPTING LANGUAGE IS COMMONLY KNOWN AS JAVASCRIPT.

JS

- ✓ MILLIONS OF DEVELOPERS KNOW IT
- ✓ PLENTY OF DOCUMENTATION
- ✓ HUGE ECOSYSTEM
- ✓ GREAT IN WEB APPLICATIONS
- ✓ NO INSTALLATION NEEDED
- ✓ WHAT WE NEED

VCDF IS A WEB APPLICATION, SO JAVASCRIPT IS THE NATURAL CHOICE.

WRITING CODE IS LABORIOUS. SO WHAT CAN HELP?

LET'S ADD READY-MADE CODE SNIPPETS!

CODE SNIPPETS

- ✓ Required field
- ✓ Value list
- ✓ Duplicate check
- ✓ Date validation
- ✓ Regular expression
- ✓ Number range
- ✓ Email validation
- ✓ Lookup table
- ✓ Trim and clean
- ✓ Transform value
- ...

BUILD COMPLEX VALIDATIONS IN MINUTES INSTEAD OF HOURS!

WE UTILIZE ARTIFICIAL INTELLIGENCE IN CREATING SCRIPTS.

AI WRITES THE CODE. WE GET A GREAT STARTING POINT!

GIVE AI YOUR RULES AND THE EXAMPLE DATA. IT UNDERSTANDS AND WRITES THE SCRIPT.

```

// Validate that CustomerID is unique
function validate(row, ctx) {
  const id = row["CustomerID"];
  if (!id) {
    return ctx.error("CustomerID is required");
  }
  if (ctx.isDuplicate("CustomerID", id)) {
    return ctx.error("Duplicate CustomerID");
  }
}
  
```

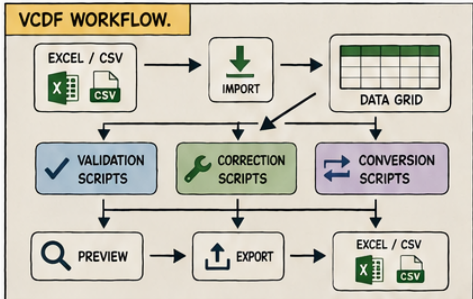
- ✓ UNDERSTANDABLE
- ✓ MODIFIABLE
- ✓ TRANSPARENT
- ✓ REUSABLE

AI GENERATES THE SCRIPT. WE CHECK IT AND FINE-TUNE IT. THEN THE SCRIPT RUNS IN THE PROGRAM.

SCRIPT CREATION – THREE WAYS TOGETHER.

1. TRADITIONAL CODING	2. CODE SNIPPETS	3. AI ASSISTANCE
WRITE JAVASCRIPT YOURSELF. <pre> if (row.Amount <= 0) { error("Amount must be greater than 0"); } </pre>	BUILD WITH DRAG&DROP OR SIMPLE SETTINGS. <pre> IF Is Empty → Is Empty THEN → Error: "Required" </pre>	DESCRIBE WHAT YOU NEED IN PLAIN LANGUAGE. <p>Check that the date is in the future and is a weekday.</p> <pre> {...} // Generated code </pre>

TRADITIONAL CODING + CODE SNIPPETS + AI = THE POWERFUL COMBO!

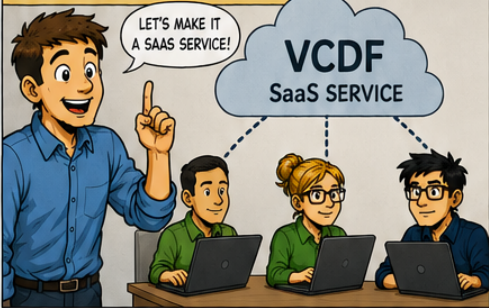


TOGETHER WE BUILD A COMPLETE, POWERFUL SOLUTION.

- ✓ SCRIPTS ARE EASY TO CREATE
- ✓ CODE SNIPPETS SPEED THINGS UP
- ✓ TRADITIONAL CODING GIVES FULL CONTROL
- ✓ JAVASCRIPT ENSURES RELIABILITY, PERFORMANCE AND FLEXIBILITY!

VCDF – VALIDATE. CLEAN. CONVERT. WORKS RELIABLY.

HOW DO WE SHARE THE PROGRAM WITH USERS?



WHAT ABOUT SECURITY?

DATA UPLOADED TO THE SERVER IS TEXT.

THE SERVER DOES NOT STORE THE UPLOADED DATA DURING USE.

THE SERVICE ALWAYS RETURNS ONLY TEXT.

TWO-FACTOR AUTHENTICATION

Username:

Password:

LOGIN

OK
Rows: 2500
Errors: 12
...
Result: Text

ENCRIPTED CONNECTION (HTTPS / TLS)

NO DATA STORED AFTER PROCESSING

NO FILES SAVED ON THE SERVER

LET'S MAKE THE PROGRAM AS EASY TO USE AS POSSIBLE - FROM THE USER'S PERSPECTIVE.

- LOAD DATA**
DRAG AND DROP EXCEL OR CSV FILE INTO THE APPLICATION...
DROP FILE HERE
...OR OPEN IT FROM THE MENU.
File > Open
- SELECT VALIDATION SCRIPT**
CHOOSE A VALIDATION SCRIPT FROM THE DROPDOWN.
Validation script
Customer data - Basic
Customer data - Basic
Customer data - Extended
Orders - Checks
Products - Rules
Custom - My script
- RUN VALIDATION**
THE PROGRAM RUNS THE VALIDATION.
100%
Validation complete!
Errors: 12 Warnings: 3
- REVIEW & FIX**
REVIEW RESULTS ON THE DATA GRID.

ID	Name	Country	Email
1001	John	US	john@...
1002	Anna	DE	
1003	Lee	UK	lee@...
1004	Maria	US	maria@...
...			

EDIT MANUALLY USING GRID TOOLS...
...AND/OR USE AI ASSISTANT.
- SAVE RESULT**
SAVE THE RESULT TO YOUR LOCAL MACHINE.
XLSX or CSV

WHAT IF WE NEED DIFFERENT MODIFIED OUTPUT FILES?

THE PROGRAM CAN CREATE SCRIPTS FOR THAT TOO!

FOR EXAMPLE: DATA TRANSFERS BETWEEN DOCUMENT MANAGEMENT SYSTEMS.

CONVERSION SCRIPTS CAN:

- ✓ FILTER DATA
- ✓ RENAME COLUMNS
- ✓ MAP VALUES
- ✓ SPLIT / MERGE FIELDS
- ✓ ADD CALCULATED FIELDS
- ✓ CREATE DOCUMENT PACKAGES
- ✓ EXPORT TO DIFFERENT FORMATS
- ✓ CONNECT TO OTHER SYSTEMS

VCDF CONVERSION SCRIPT

- EXCEL / CSV FOR REPORTING
- DOCUMENT MANAGEMENT SYSTEM A
- DOCUMENT MANAGEMENT SYSTEM B
- OTHER SYSTEMS (API / FILE / SFTP)

HOW A TYPICAL USER WORKS WITH VCDF.

- OPEN OR DRAG FILE**
OPEN FROM MENU OR DRAG & DROP EXCEL / CSV.
- CHOOSE SCRIPT**
SELECT THE RIGHT VALIDATION SCRIPT.
Validation script
Customer data - Basic
- RUN**
CLICK RUN. VALIDATION STARTS.
- REVIEW RESULTS**
SEE ERRORS AND WARNINGS IN THE GRID.
- FIX DATA**
FIX DATA MANUALLY OR USE AI ASSISTANT.
- SAVE OUTPUT**
SAVE THE RESULT LOCALLY.

EASY. POWERFUL. SECURE.

- ✓ SAAS - ACCESS ANYWHERE
- ✓ SECURE BY DESIGN
- ✓ FAST AND RELIABLE
- ✓ SCRIPTABLE AND FLEXIBLE
- ✓ AI + SNIPPETS + CODE = BEST COMBO
- ✓ SAVE TIME, REDUCE ERRORS
- ✓ DELIVER TRUSTED DATA EVERYTIME

VCDF MAKES DATA VALIDATION, CLEANING AND CONVERSION SIMPLE, POWERFUL AND RELIABLE!

VCDF - VALIDATE. CLEAN. CONVERT. WORKS RELIABLY.