

Something for Transforms"

to

EMPOWER BUSINESS USERS TO PERFORM MAPPING OPERATIONS

(Sponsored Project MS-IDC)

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Study BizTalk- Transforms

Information Integration in the Enterprise

LARGE ENTERPRISES SPEND a great deal of time and money on "information integration"—combining information from different sources into a unified format. Frequently cited as the biggest and most expensive challenge that information-technology shops face, information integration is thought to consume about 40% of their budget.^{4, 14, 16, 33, 36} Market-intelligence firm IDC estimates that the market for data integration and access software (which includes the key enabling technology for information integration) was about \$2.5 billion in 2007 and is expected to grow to \$3.8 billion in 2012, for an average annual growth rate of 8.7%.²⁹

Software purchases are only one part of the total expense. Integration involves moving data from one information reuse,移植ing data from one application's database to another's, translating messages for business-to-business e-commerce, and providing access to structured data and documents via a Web portal.

domain study
secondary research

Integration

Information Integration in the Enterprise

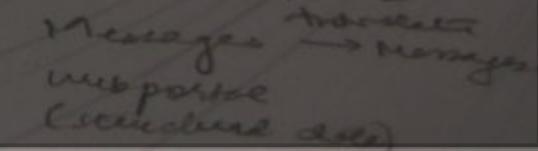
Message Mapping : EAI

Object-to-Relational Mappers : db

Virtual Data Integration: EII

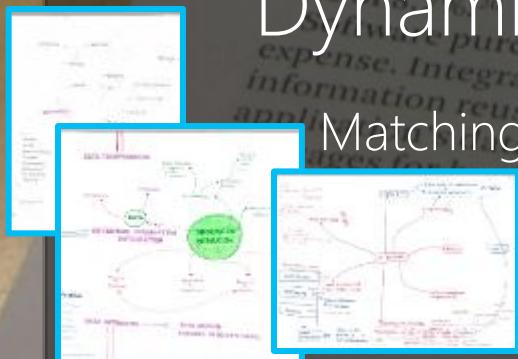
Semantic Integration

Integration Patterns: Mediation & Federation



Information Integration in the Enterprise

XML, Schema Standards, EDI, AS2, Data Cleansing, Schema Mapping, Keyword Search, UIR Information Extraction, Dynamic Web Technologies, Schema Matching, Integration, TPM, Accelerators, Access patterns



Market Research

Adeptia Integration Suite

Altova MapForce

Apache Synapse

Artix

BizTalk Server

Blackbird ESB

Business Integration Server

FUSE ESB

iBOLT IS

TIBCO

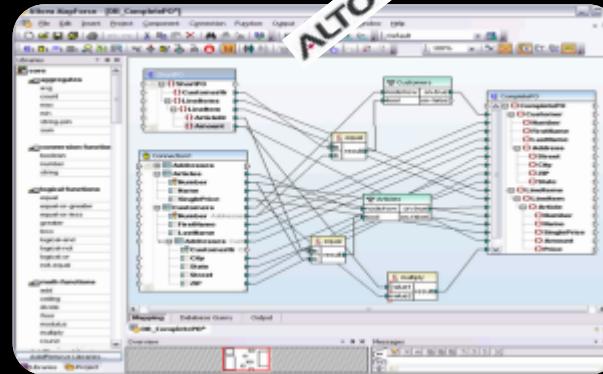
IBM WebSphere

WebLogic

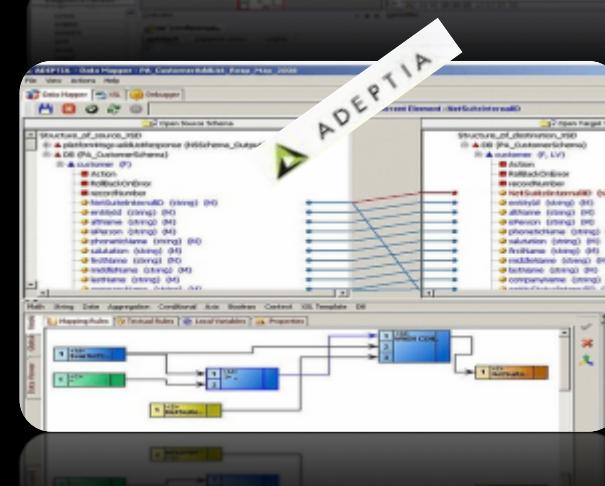
Guarana DSL

ETL

APATAR



Gives flexibility but adds a lot of randomness



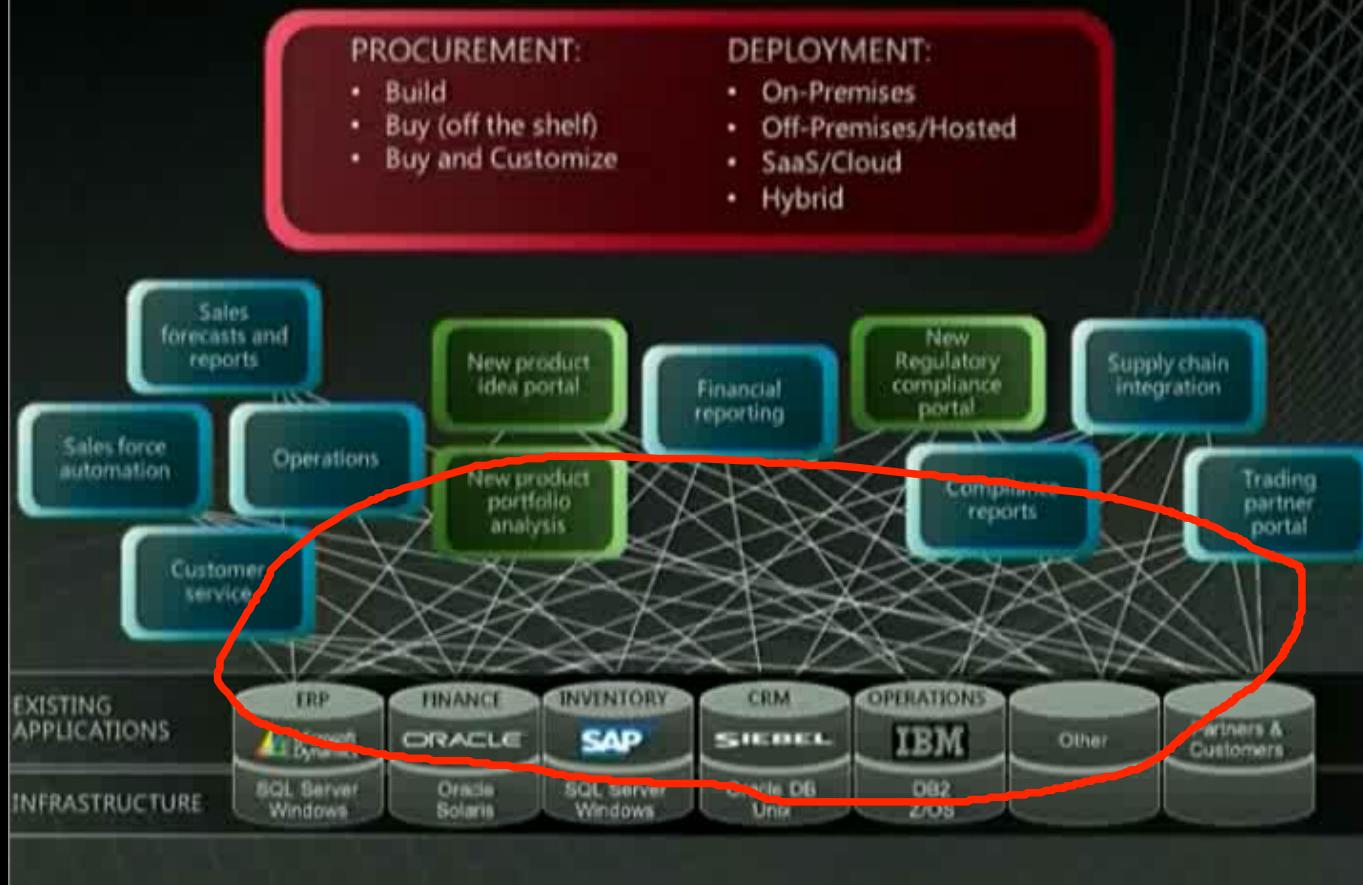
Very restrictive, no flexibility

Works with nodes and arrows



problem area

Today's IT Landscape: Complexity Spaghetti



Operating
system

Database

Security

Front End



BPA: Business Process Automation

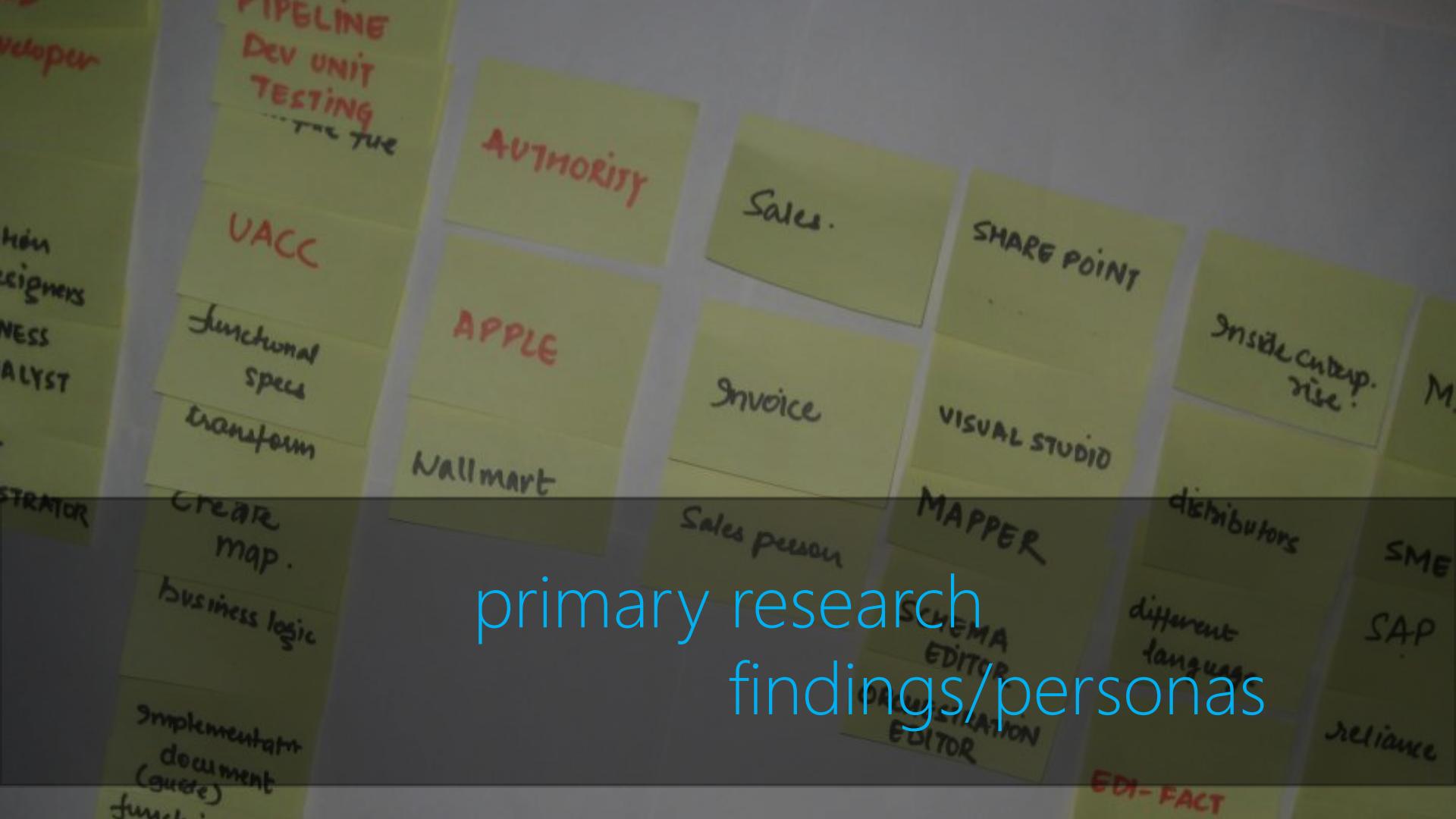
EAI: Enterprise Application Integration

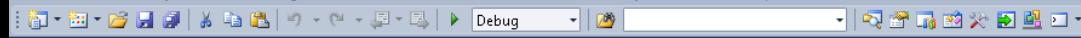
B2B: Business to Business Integration

BPM: Business Process Monitoring

- Connect s/w
- Support automation
- Connect trading partners.
- real-time monitoring

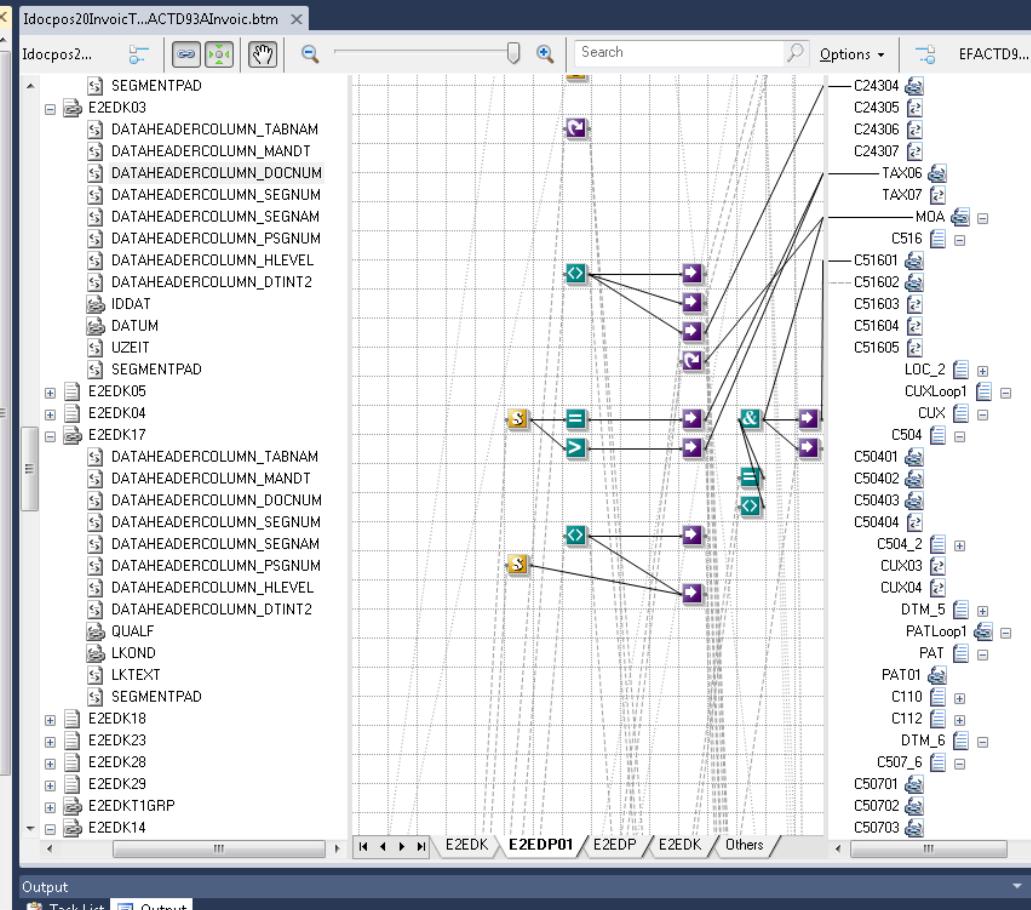
primary research findings/personas





Toolbox

- Advanced Functoids
- Pointer
- Scripting
- Record Count
- Index
- Iteration
- Value Mapping
- Assert
- Value Mapping (Flattening)
- Looping
- Mass Copy**
- Table Looping
- Table Extractor
- Nil Value
- Conversion Functoids
- Cumulative Functoids
- Database Functoids
- Date / Time Functoids
- Logical Functoids
- Pointer
- Greater Than
- Greater than or Equal To
- Less Than
- Less Than or Equal To
- Equal
- Not Equal
- Logical String
- Logical Date
- Logical Numeric
- Logical OR
- Logical AND
- Logical Existence
- Logical NOT
- IsNil
- Mathematical Functoids
- Scientific Functoids



Solution Explorer

Solution 'Invoic.PartnrNm.AP' (2 projects)

- EDD.Invoic.PartnrNm.Maps.AP**
- Properties
- References
- CSR_OrderRequest.xsd
- G2B.snk
- Idocpos20InvoicToEFACTD93AInvoic.btm
- Order.xsd
- Order_To_CSR_OrderRequest.btm
- OrderPropertySchemas.xsd
- Servicing_OrderRequest.xsd
- EDD.Invoic.PartnrNm.Schemas.AP**
- Properties
- References
- EFACTD93AInvoicPartnrNm.xsd
- G2B.snk

Solution Explorer Team Explorer

Properties

DATAHEADERCOLUMN_DOCNUM Element Field

| | |
|----------------|-------------------------------|
| Base Data Type | xs:string |
| CodeList | |
| Data Type | xs:string |
| Default Value | |
| Derived By | (Default) |
| Field Type | Element |
| Final | (Default) |
| Fixed | |
| Form | (Default) |
| Instance XPath | /*[local-name()='Idocpos_21'] |
| Justification | Left |
| Max Occurs | 1 |
| Min Occurs | 0 |

Base Data Type

Determines the name of the type definition that the current node type is based upon.

Users

- Business Analysts
- Solution Delivery Managers
- Program Managers
- Developers
- Testers

Solution Delivery Managers & Business Analysts



If we leave things to dev, there are high chance that consistency will break.

There are a set of mandatory fields for each document.

We have to do same thing three times for documentation

Most of the times customers know what problem they are facing

We have tried to do standard format for Functional Spec during Dell project

Just to add a few details a whole new document needs to be made.

There are times where we define the mappings

I would be good if it can be done in Excel

Developer



we do it by referring the Idoc's from SAP



The schema on the destination side is in German so we do not understand the meaning



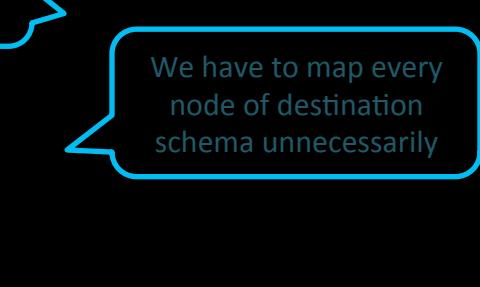
I get this spec from my manager. I don know what happens before it.



if I spend two hours everyday, It will take a week to complete t his mapping



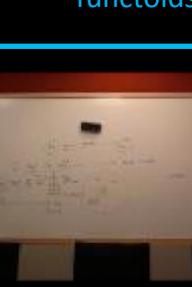
'AUTOFILL' you wont understand it, it can be understood by us only.



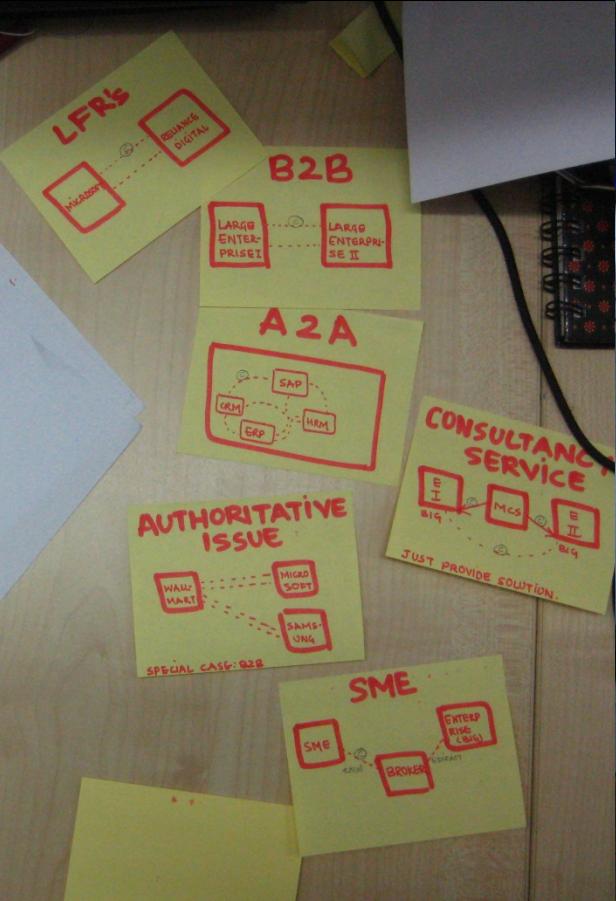
It is very difficult to give KT to TCS if there is some enhancement or bug



It's a pain to find bug in functoids



We have to map every node of destination schema unnecessarily



| Comp | Elmt | Pos | Qual | Mapping Logic | F38 | Font | Alignment | Number | Styles | Cells | | |
|-------------------------------|------|------------|------|--|------------|------------------------|--|--|--|---|----|--|
| C506 | 1154 | 0101 | AG | If (E2EDKA2.PARVW = "AG") then set RFF.C506.1154 = E2EDKA2.LIFNR | EDL_DC40_U | TABJAM | EDL_DC40_U | Name of table structure | | | | |
| C080 | 3036 | 0401 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.NAME1 != "")) then set NAD.C080.3036 = E2EDKA2.NAME1, else if (E2EDKA2.NAME1 = "") then set NAD.C080.3036 = E2EDKA2.NAME2 | AUTOFILL | ORDERS05 | ORDERS05 | Name of basic type | | | | |
| | 3139 | 0101 | AG | If (E2EDKA2.PARVW = "AG") then set CTA.3139 = "OC" | AUTOFILL | ORDERS | MESTYP | Message type | | | | |
| C056 | 3412 | 0202 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.PARVW = "VN")) then set CTA.C056.3412 = E2EDKA2.NAME2 (This CTA instance is associated with the DVX qualified NAD only). | AUTOFILL | CESD_RPR | SNDPDR | Sender port (SAP System, external subsystem) | | | | |
| C080 | 3036 | 0402 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.NAME1 != "")) then set NAD.C080.3036 = E2EDKA2.NAME2 | AUTOFILL | KU | SNDPRT | Partner type of sender | | | | |
| C059 | 3042 | 0503 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.STRAS != "") & (E2EDKA2.NAME4 != "")) then set NAD.C059.3042 = E2EDKA2.NAME3 | AUTOFILL | AG | SNDPFC | Partner Function of Sender | | | | |
| C059 | 3042 | 0502 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.STRAS <> blank)) then set NAD.C059.3042 = E2EDKA2.NAME4, else if ((E2EDKA2.STRAS = "") & (E2EDKA2.NAME4 != "")) then set NAD.C059.3042 = E2EDKA2.NAME3, else if ((E2EDKA2.STRAS = "") & (E2EDKA2.NAME4 = "")) then set NAD.C059.3042 = E2EDKA2.NAME4 | AUTOFILL | Z2 | SNDPRN | SAP Sold To Customer # | | | | |
| C059 | 3042 | 0501 | | If (E2EDKA2.PARVW = "AG") & (E2EDKA2.STRAS != "") then set NAD.C059.3042 = E2EDKA2.STRAS, else if ((E2EDKA2.STRAS = "") & (E2EDKA2.NAME4 != "")) then set NAD.C059.3042 = E2EDKA2.NAME4, else if ((E2EDKA2.STRAS = "") & (E2EDKA2.NAME4 =)) then set NAD.C059.3042 = E2EDKA2.NAME3 | AUTOFILL | PARVW | PARTN | SAP Sold-to customer number | | | | |
| | 3164 | 0601 | | If (E2EDKA2.PARVW = "AG") then set NAD.3164 = E2EDKA2.ORT01 | AUTOFILL | PARVW | ZT | value hard-coded to default to 'CNETIME' (Send City, if available) | | | | |
| | 3251 | 0801 | | If (E2EDKA2.PARVW = "AG") then set NAD.3251 = E2EDKA2.PSTLZ | AUTOFILL | LOC | 3227 | 0101 | If if (LOC.C517.3225 != "") then set LOC.3227 = "18" | AN | | |
| | 3207 | 0901 | | If (E2EDKA2.PARVW = "AG") then set NAD.3207 = E2EDKA2.LAND1 | AUTOFILL | LOC | 3225 | 0201 | Set LOC.C517.3225 = E2EDK08.VSTEL | AN | | |
| | 3229 | 0701 | | If (E2EDKA2.PARVW = "AG") then set NAD.3229 = E2EDKA2.REGIO | AUTOFILL | NAD | 3035 | 0101 | AG If (E2EDKA2.PARVW = "AG") then set NAD.3035 = "BY" | AN | | |
| C076 | 2148 | 0101 | | If ((E2EDKA2.PARVW = "AG") & (E2EDKA2.PARVW = "VN")) then set | AUTOFILL | NAD | 3039 | 0201 | If (E2EDKA2.PARVW = "AG") then set NAD.3039 = "DE" | AN | | |
| | | | | | AUTOFILL | NAD | 3055 | 0203 | If (NAD.C082.3055 != "") then set NAD.C082.3055 = "BE" | AN | | |
| | | | | | SG3 | RFF | C506 | 1153 | 0101 | If (E2EDKA2.PARVW = "AG") then set RFF.C506.1153 = "CR" | AN | |
| CANONICAL SCHEMA | | | | SAP SEGMENTS | | | | | | | | |
| Canonical Schema | | Comments | | Segment | Field | Data Required | Description | | | | | |
| AUTOFILL | | EDL_DC40_U | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| AUTOFILL | | ORDERS05 | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| AUTOFILL | | ORDERS | | | MESTYP | ORDERS | Message type | | | | | |
| AUTOFILL | | CESD_RPR | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| AUTOFILL | | KU | | | SNDPRT | KU | Partner type of sender | | | | | |
| AUTOFILL | | AG | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| SoldToBuyerParty CustomerID | | SAPMSU | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| AUTOFILL | | LS | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| AUTOFILL | | EDI | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |
| | | | | EDL_DC40 | TABNAM | EDL_DC40_U | Name of table structure | | | | | |
| | | | | | IDOCTYP | ORDERS05 | Name of basic type | | | | | |
| | | | | | MESTYP | ORDERS | Message type | | | | | |
| | | | | | SNDPDR | CESD_RPR | Sender port (SAP System, external subsystem) | | | | | |
| | | | | | SNDPRT | KU | Partner type of sender | | | | | |
| | | | | | SNDPFC | AG | Partner Function of Sender | | | | | |
| | | | | | SNDPRN | SAP Sold To Customer # | SAP SoldTo | | | | | |
| | | | | | RCVPOR | SAPMSU | Receiver port | | | | | |
| | | | | | RCVPRT | LS | Partner Type of receiver | | | | | |
| | | | | | RCVPRN | EDI | Partner number of recipient | | | | | |
| Canonical Schema | | | | Segment | Field | Data Required | Description | | | | | |
| Comments | | | | SAP SEGMENTS | | | | | | | | |
| | | | | Segment | Field | Data Required | Description | | | | | |

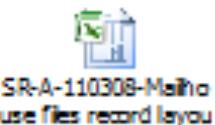
The output data to Exstream Dialogue will be generated through a flat file schema. There are three types of outputs expected by Exstream Dialogue one each for:

1. Default letters (IA, ID, CL, DL, SP, DP, BB, PV, PM, EX, RL, MV, NO, DD)
2. Exemption letters (Exemption Denial – Short Version, Exemption Denial – Long Version, Exemption Denial – Exemption Not Necessary, Exemption Denial – System Reject, Exemption Approval, Exemption Maximus Pending – Invalid Exemption Form, Exemption Maximus Pending – Incomplete Exemption Form, Exemption DHS Pending, Exemption Pending Reason)
3. Unable To Process/Incomplete Letter/Pending Transactions

Default Letters

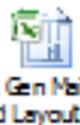
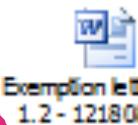
This will be a fixed length schema that will be adhering to the layout mentioned in the above Excel.

The following files will be used for reference throughout this section.



Exemption Letters

This will be a comma separated schema that will be adhering to the layout in the attached excel below. The "Exemption Letters" tab explains the format used by these files.

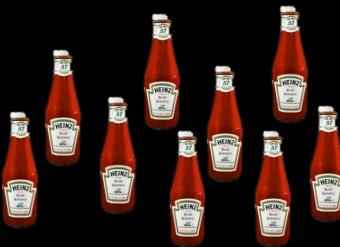


Sanket had More than 100 TS documents just for a single project!

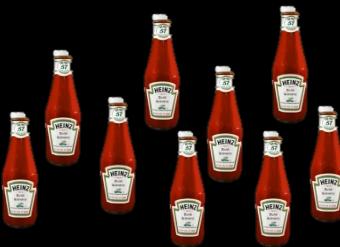
Interlinked !

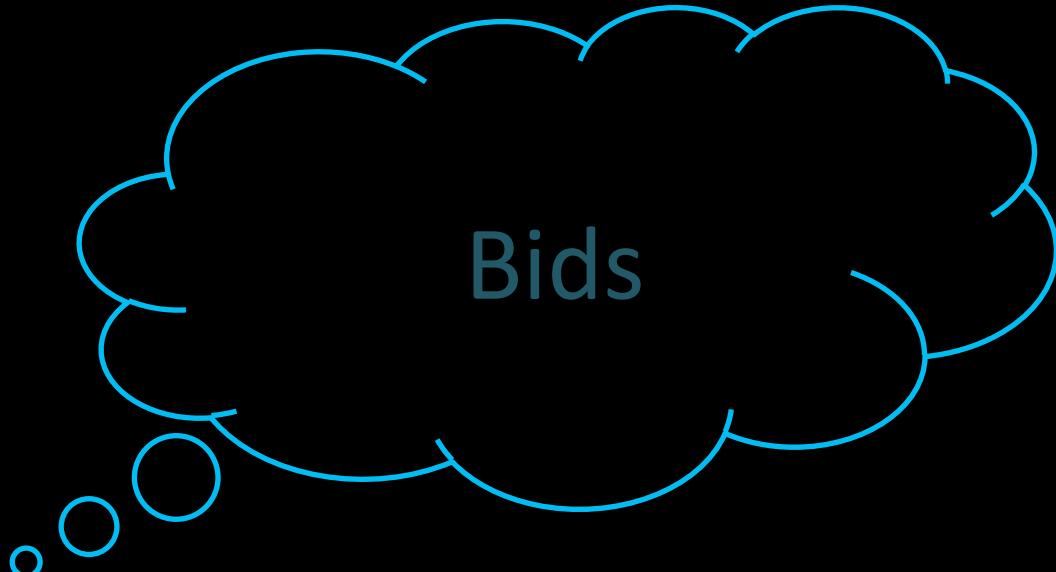
Managed in Folders

task flow

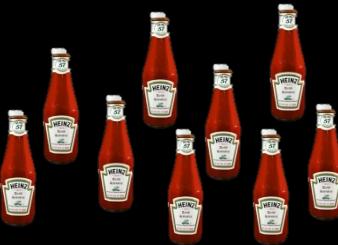


'Quotations'
Tenders





Bids





What happens after this?

We are
Involved I am the



Marketing
Manager



Business
Analyst



Solution
Designers



Developer



Tester



Administrator

Email, HTTP, X.400



Mr. McD
Business Analyst
(Mc Donalds)



Mr. Heinz
Business Analyst
(Heinz)





We have a new
Trading Partner.

Business Analyst



Can you get me the
requirements?

Solution Designer

Functional Specs



Solution Designer



Business Analyst

Lets gather the functional specifications

I would need...

I talk only using FTP
I would accept data only in AS2 format
I want you to receive ACK every 6 hours.
The name should be in FN and LN format
date format, etc

Functional Specs



We would need a
lot of technical
changes for this.



Business Analyst



Technical Specs



Business Analyst



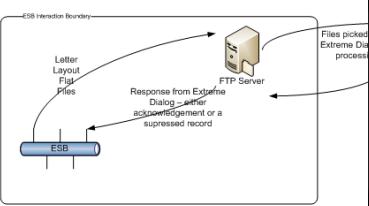
Solution Designer

You would need to get
me the Business Logic to
define the rules.

3.1 Interface Mechanism

The interactions with Exstream Dialogue will take place using flat files. These files from a common FTP location that will be decided by Maximus. This location will be on ESB side. Each mail type will have a separate file extension. Similarly the response for suppressed records will have a different file extension.

The following diagram provides an overview of this interaction.



3.2 Interface Contract

The input files for the Extreme Dialogue will follow a file naming convention as defined below:

| Year | Month | Day | Mail House | Sequence # | Period | Letter Type | Plan Type | Transmission Status (MAXIMUS) |
|------|-------|-----|------------|------------|--------|-------------|-----------|-------------------------------|
| YY | MM | DD | M | S | TT | P | Xxxx | MAXIMUS extension |

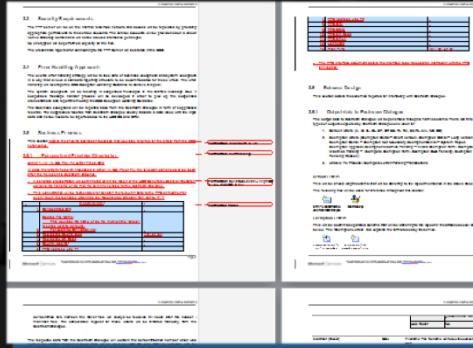
Technical Specs



Business Analyst



Oh no! We again need
to write the TS for
Developers.



2 SOLUTION OVERVIEW

The Exstream Dialogue is responsible for providing print letter and mailing those to the beneficiaries as well as service the requests to send fax to the beneficiaries. The ESB will interact with Exstream Dialogue in order to provide the data for these tasks.

The following sections in the document describes the protocol that will be followed for this interaction along with the details of how this interaction will be implemented

Technical Specs



Business Analyst



Solution Designer

Do remember to specify the functoid to be used for mapping. We need consistency. We can't leave it for dev to decide!

| | | |
|--|--|------|
| within the file. This information will be passed from the HCO DB. Following are the acceptable letter types - | | |
| <input type="button" value="+"/> | Letter Type | Code |
| | Intent to Assign | IA |
| | Intent to Default | ID |
| | Enrollment Confirmation | CL |
| | Disenrollment Confirmation | DL |
| | Special File | SP |
| | Disenrollment Packet Request | DP |
| | Initial BSA | BB |
| | Voluntary Packet Request | PV |
| | Mandatory Packet Request | PM |
| | 45-Day Exemption /Explanation Letter | EX |
| | Annual Renotification Letter | RL |
| | Mandatory To Voluntary Letter | MV |
| | Special / One Time Notices | NO |
| | Dual Eligible Special Disenrollment Letter | DD |
| | Fax | FX |
| | Exemption Letter | EL |
| (It clubs all the sub categories of exemptions Exemption Denial – Short Version Exemption Denial – Long Version Exemption Denial – Exemption Not Necessary Exemption Denial – Sustained) | | |

Implementation Guide



Business Analyst



Solution Designer

Oh! I also need to make an Implementation Document just for Mapping.

CANONICAL SCHEMA

| | |
|--------------------------------------|--|
| EndCustomerParty SourceCurrencyCode | |
| AUTOFILL | Z5C1 |
| AUTOFILL | 012 |
| PurchaseOrder DocumentDateTime | Mapping will need to parse for date only (YYYYMMDD) |
| AUTOFILL | 022 |
| PurchaseOrder DocumentDateTime | Mapping will need to parse for date only (YYYYMMDD) |
| AUTOFILL | 023 |
| PurchaseOrder DocumentDateTime | Mapping will need to parse for date only (YYYYMMDD) |
| AUTOFILL | AG |
| SoldToBuyerParty CustomerID | |
| AUTOFILL | Z2 |
| | value hard-coded to default to 'ONETIME' (Send City, if available) |
| AUTOFILL | |
| EndCustomerParty BillToCountry | |
| EndCustomerParty BillToCountry | |
| EndCustomerParty BillToCountry | |
| AUTOFILL | Z7 |
| SoldToBuyerParty PriceListID | |
| AUTOFILL | 001 |
| | |
| PurchaseOrder ExternalOrderNumber | |
| PurchaseOrder DocumentDateTime | Mapping will need to parse for date only (YYYYMMDD) |
| PurchaseOrder DocumentDateTime | Mapping will need to parse for time only (HHMMSS) |
| AUTOFILL | 044 |
| PurchaseOrder MSPurchaseOrderID | |
| ENVELOPE CreationDateTime | Mapping will need to parse for date only (YYYYMMDD) |

SAP SEGMENTS

| | | | |
|---------|--------|-----------------------------|---|
| E1EDK01 | CURCY | Purchase Order Currency | Move value inserted here to E1EDP01-C leave this field blank |
| | BSART | Z5C1 | CESD Order Type |
| E1EDK03 | IDDAT | 012 | tells SAP the following refers to the Doc |
| | DATUM | Document Date | |
| E1EDK03 | IDDAT | 022 | tells SAP the following refers to the Purch |
| | DATUM | Purchase Order Date | |
| E1EDK03 | IDDAT | 023 | tells SAP the following refers to the Pric |
| | DATUM | Purchase Order Date | mapped to the Pricing Date in SAP |
| E1EDKA1 | PARVW | AG | tells SAP the following refers to the Sold |
| | PARTN | SAP Sold-to customer number | |
| E1EDKA1 | PARVW | Z2 | tells SAP the following refers to the End |
| | ORT01 | End Customer City | required when M3 is MDR, default to ON M3 is not MDR |
| | LAND1 | ISO Country Code | End Customer ISO country code (2 char) |
| | ISODAL | ISO Country Code | End Customer ISO country code (2 char) |
| | ISONU | ISO Country Code | End Customer ISO country code (2 char) |
| E1EDKA1 | PARVW | Z7 | tells SAP the following refers to the Price |
| | PARTN | SAP PriceList number | |
| E1EDK02 | QUALF | 001 | tells SAP the following refers to the Sold |
| | BELNR | DDSP Purchase order number | Purchase order |
| | DATUM | DDSP PO Date | Unique identifier for the DDSP/Order (but |
| | UZEIT | DDSP PO Time | guaranteed unique since different DDSP the same numbers) |
| | | | optional |
| E1EDK02 | QUALF | 044 | tells SAP the following refers to the Ship |
| | BELNR | JIT Business Record ID | Purchase order |
| | DATUM | JIT Business Record Date | Unique identifier for the order |

Technical Specs



Business Analyst



Solution Designer

Wow! Finally after 2 months
the project is ready to go in
production.

Interface Specifications - External Dialogue
Maximus Enterprise Service Data

Access Rights

- Administrator
- Manager
- Employee
- Customer
- Guest User

Microsoft | Services

Market Overview

The Maximus Project Management System is designed to provide a central hub for managing projects across multiple business units. It uses the latest technology to ensure that all information is accessible and up-to-date. The system is built on a modular architecture, allowing for easy integration with existing systems and processes. It features a user-friendly interface and powerful reporting tools to help users make informed decisions. The system is designed to be highly customizable, allowing for specific needs to be met. It also includes a comprehensive set of security features to protect sensitive data. The system is built to be reliable and efficient, providing a secure environment for managing projects.

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Production



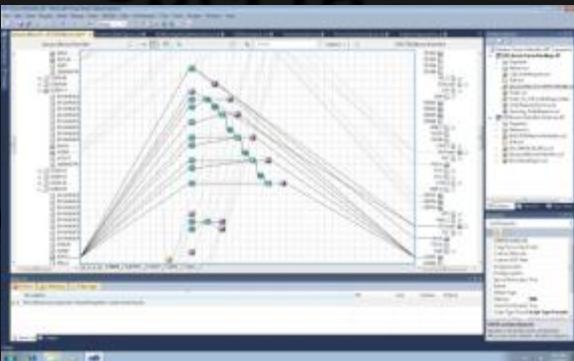
Business Analyst



I need the technical document and the Mapping Sheet.



Solution Designer



Production



Business Analyst

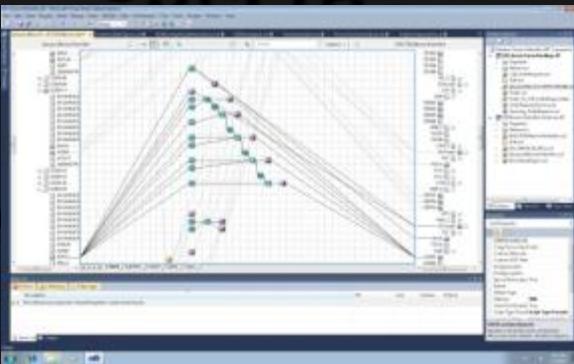


Developer



Solution Designer

Can you explain me
the W27 Mapping
Outbound
Requirements?



Production



Business Analyst



Developer



Solution Designer



Tester



Finally! The project is ready for deployment. I need to inform the Test team.

Production



Business Analyst



Developer



Solution Designer



Tester

Hey, also please give
me requirements
specs.

Production



Business Analyst



Developer



Solution Designer



Tester

| EDI DC Header (Doc Version 2.0) - SOURCE: | | | | | |
|---|--------|-------|------|-------------------------------------|--|
| Field | Length | Start | Stop | Field Description | Field Value |
| EDIDRVR | 10 | 1 | 10 | EDI File | EDI DC |
| EMBIT | 3 | 11 | 13 | Client | WSI = "122"; MFTIDBNS = "200"; |
| EDCDBR | 16 | 14 | 29 | Doc Number | Doc Number assigned by SAP |
| EDCDEL | 4 | 30 | 33 | EDIF Release for Doc | (SAP Version = 418) |
| EDCSTATUS | 2 | 34 | 35 | Status of Doc | |
| EDCXTYP | 8 | 36 | 43 | Doc Type | 0ES40V01 |
| EDCVER | 1 | 44 | 44 | Direction for Doc Transmission | |
| EDCPTR | 10 | 45 | 54 | Message ID (Doc, EDI Subkey) | 1 |
| EDCPRT | 2 | 55 | 56 | Partner Type of Recipient | ZBSPN(PD) |
| EDCPRL | 10 | 57 | 66 | Partner Number of Recipient | |
| EDCSGAS | 21 | 67 | 81 | Doc. SADT Fields in Total | |
| EDCLOAD | 76 | 88 | 151 | Logical Address of Recipient | |
| EDCLOD | 1 | 158 | 158 | EDI Standard | |
| EDCSTD | 8 | 159 | 164 | Variation of EDI Standard | ID: 96K (Insert 3 Inv. spaces after D) |
| EDCSTB | 6 | 160 | 170 | EDI Message Type | 000000 |
| EDCCD0 | 3 | 171 | 173 | Logical Message Code | |
| EDCFFP | 3 | 174 | 176 | Logical Message Function | |
| EDCFN00 | 3 | 177 | 177 | Logical Step | |
| EDCTEST | 1 | 178 | 178 | Test Flag | |
| EDCPTR | 10 | 179 | 188 | Sender Profil (SAP Sys, EDI Subkey) | SAP01 for test, SAP02 for prod |
| EDCPRT | 2 | 189 | 190 | Partner Type of Sender | LS |
| EDCPRL | 10 | 191 | 200 | Partner Number of Sender | SAP PARTNER ID |
| EDCSGAD | 21 | 281 | 281 | Doc. SADT Fields in Total | |
| EDCLOAD | 76 | 282 | 281 | Logical Address of Sender | |
| EDCPRIT | 14 | 282 | 295 | Reference to Interchange File | |
| EDCPRGP | 14 | 296 | 319 | Reference to Message Group | |

Congratulations!
Project is ready for
deployment.



and the project is successfully deployed



Business Analyst



Developer



Solution Designer



Tester

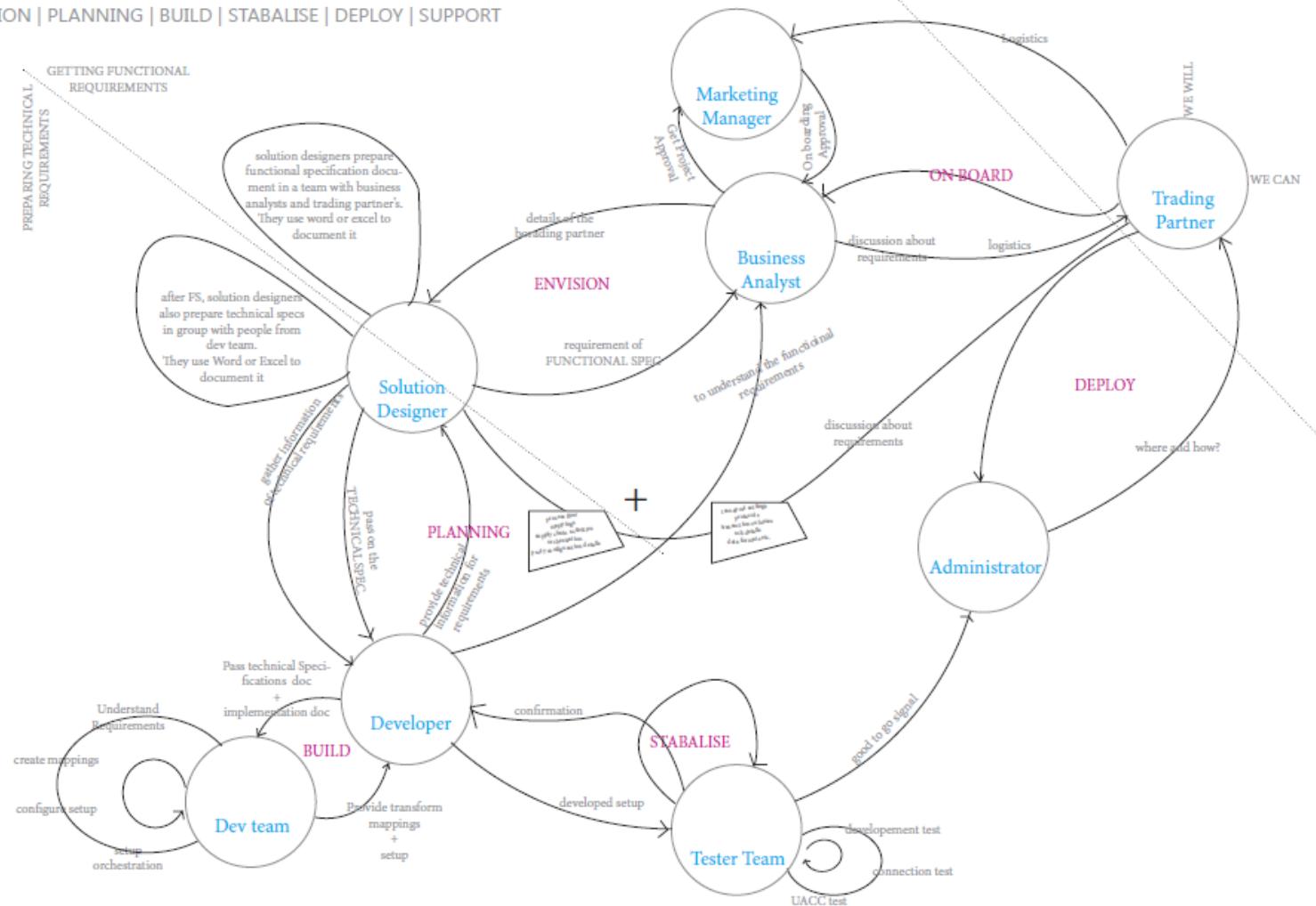


Administrator

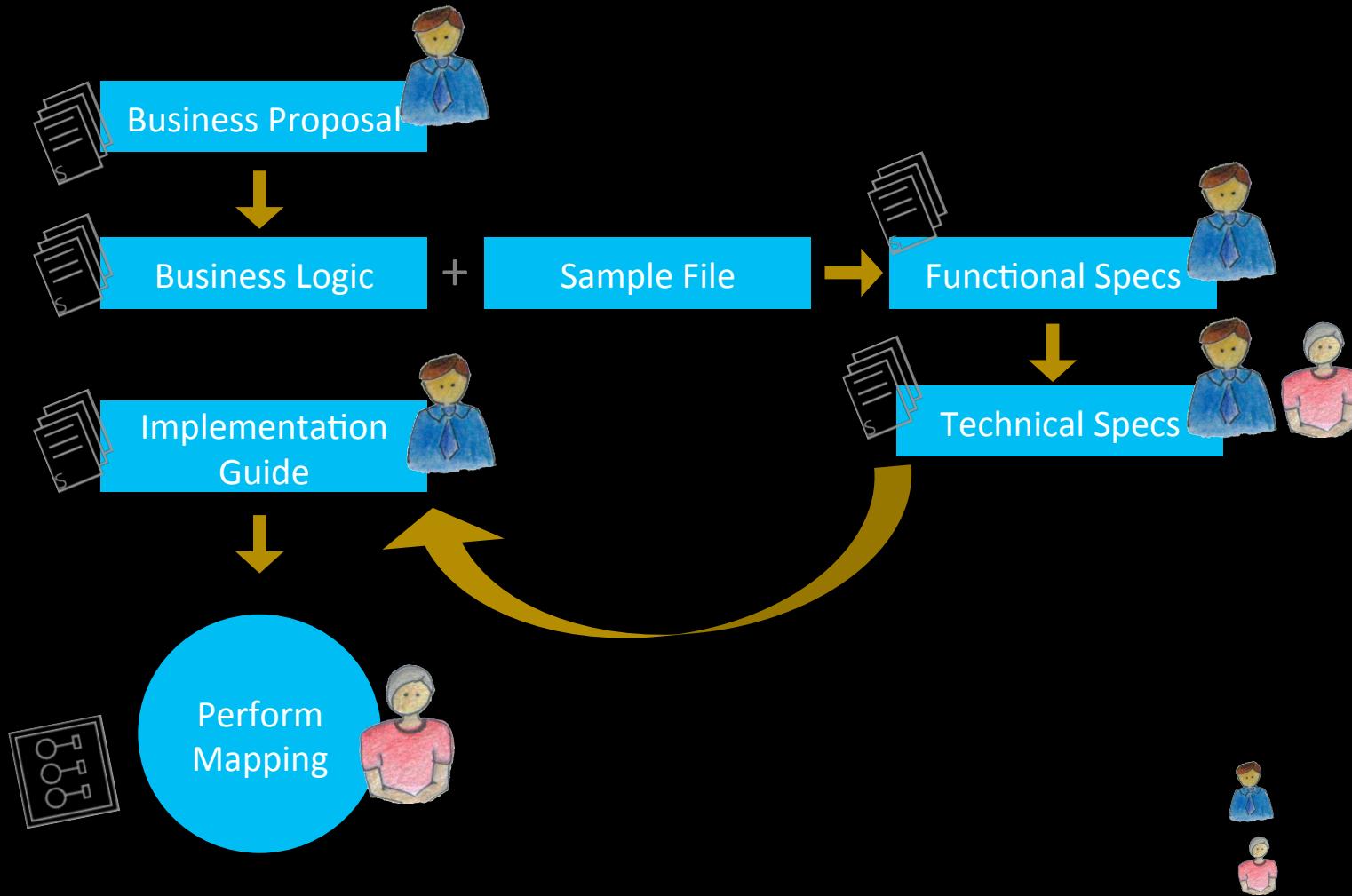
WORK FLOW MODEL

PEOPLE | COMMUNICATION | COORDINATION

ENVISION | PLANNING | BUILD | STABALISE | DEPLOY | SUPPORT



DOCUMENTATION FLOW MODEL AND USER ROLES



persona: comfort zones



very techie

Word
Powerpoint
Excel
Sharepoint
Mapper



Visual studio and other development tools



non techie

Word
Powerpoint
Excel
sharepoint



Administrator

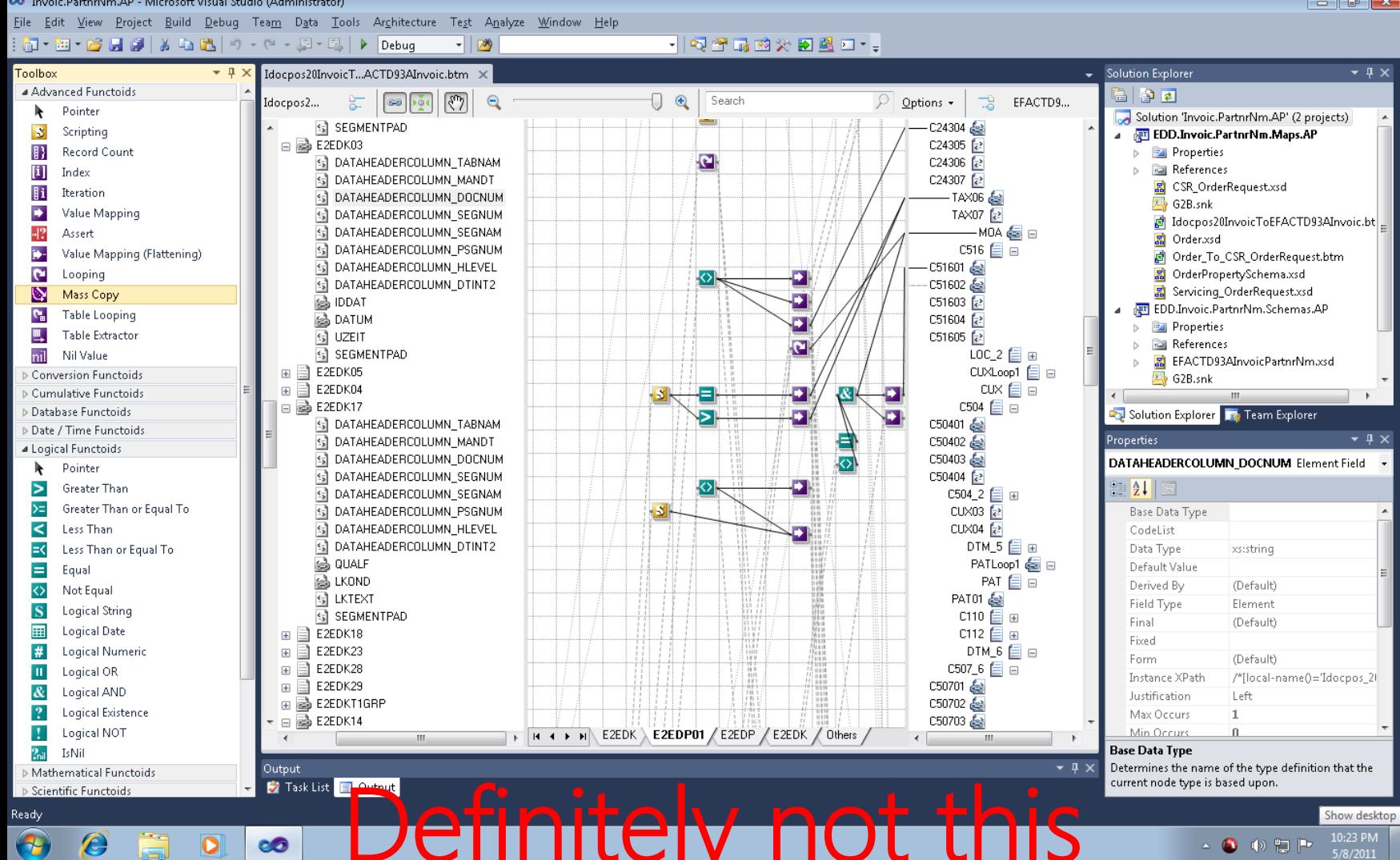
opportunity areas

1. The current process of (BA) **Business Analyst** gathering information is linear and involves a lot of **repetitive work**.
2. Develop a system to enable SME to collaborate to Big Enterprise
3. **Developer unnecessarily understand Business Document** to implement of the information gathered and already complied logic by business users (BA + SD + PM)
4. It is very difficult to do enhancements in the already built mapper.
5. Users find it very difficult to debug a map once built.
6. There are no standard formats for documenting the project specifications.
7. There is no way to collaborate with other project partners other than meetings and conference calls
8. **Business user has all the understood information** & he can be used to produce an usable output.
9. There is no way to manage the documentation.

Empower
Business Users
to contribute in the
process of mapping
implementation.

Design Something that will help business
users to contribute in process of mapping
and thus reduce redundant work.





But how?



WHERE?
environment
user is working
in

WHAT?
content user is
working
on

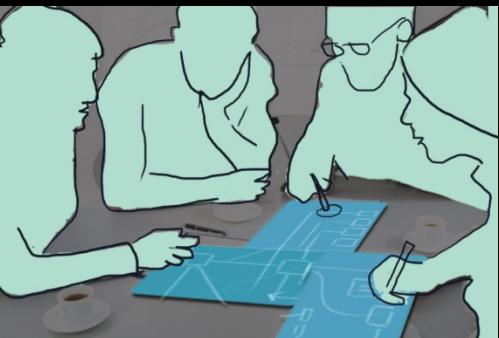
HOW?
Interface user
is working
with

environment

Large Screen Displays



slates



Mobile networking



Surface



Camera on paper



Gesture mapping

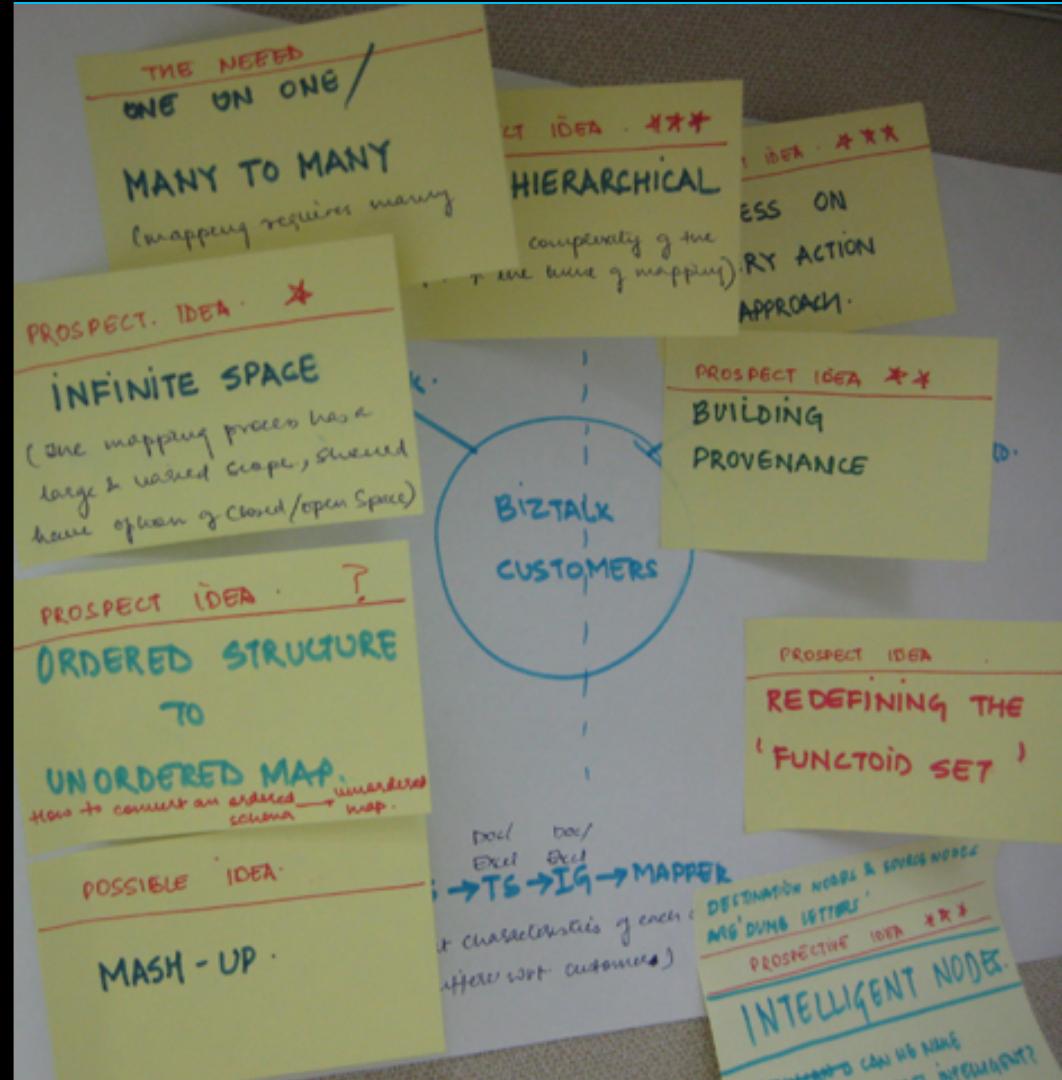


content

1. Structural Constructs :
chunking the Schemas, H to NH

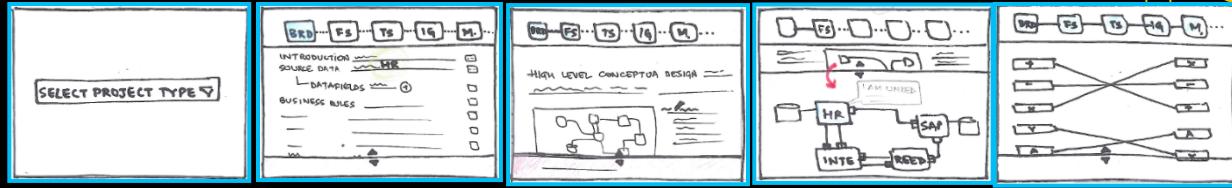
2. Intelligent Node :
how can getting rid of functoids

3. Enable Provenance :
what have I done?



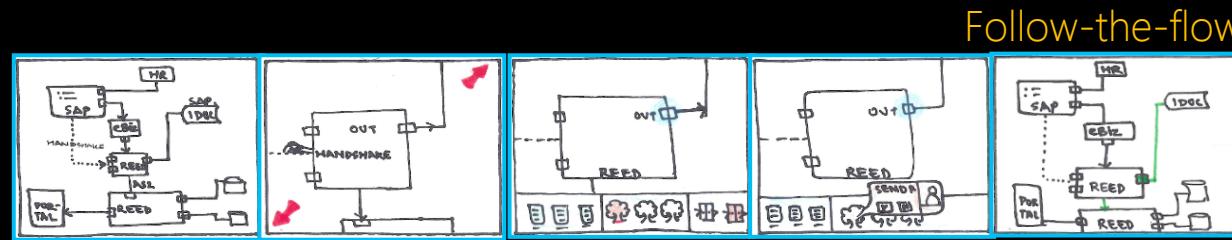
interface level concepts

1. Wizard mapping
(Build upon existing)



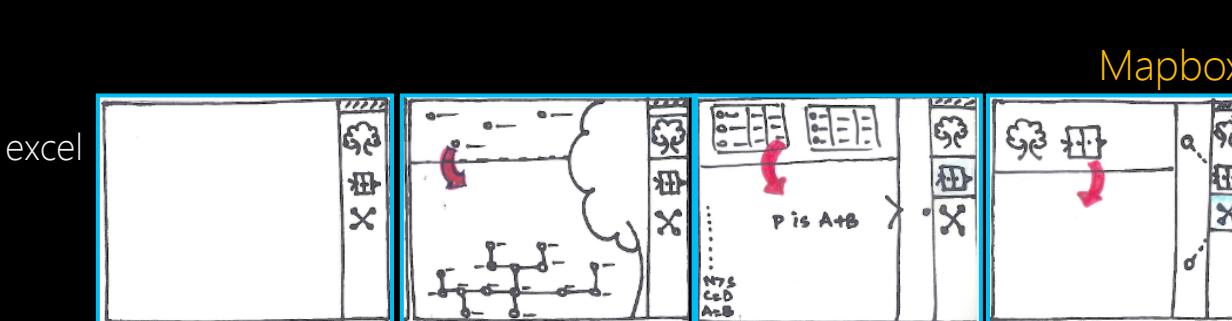
Wizard mapping

2. Follow the flow
(Interacting diagrams)



Follow-the-flow

3. Mapbox
doc + mapping toolbox



Mapbox

4. process view mapping

5. Envelops

6. Reference mapping

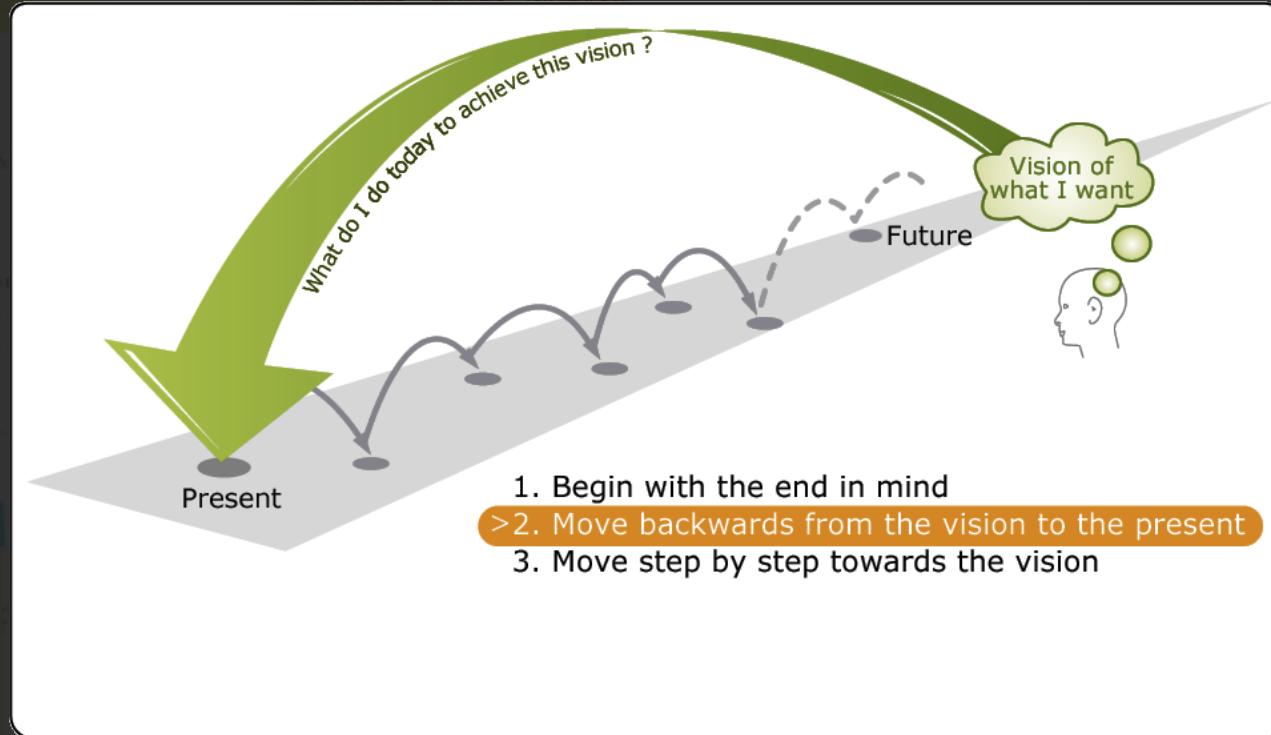
7. Excel Mapping

Perform mapping operations using excel commands

backcasting

backcasting

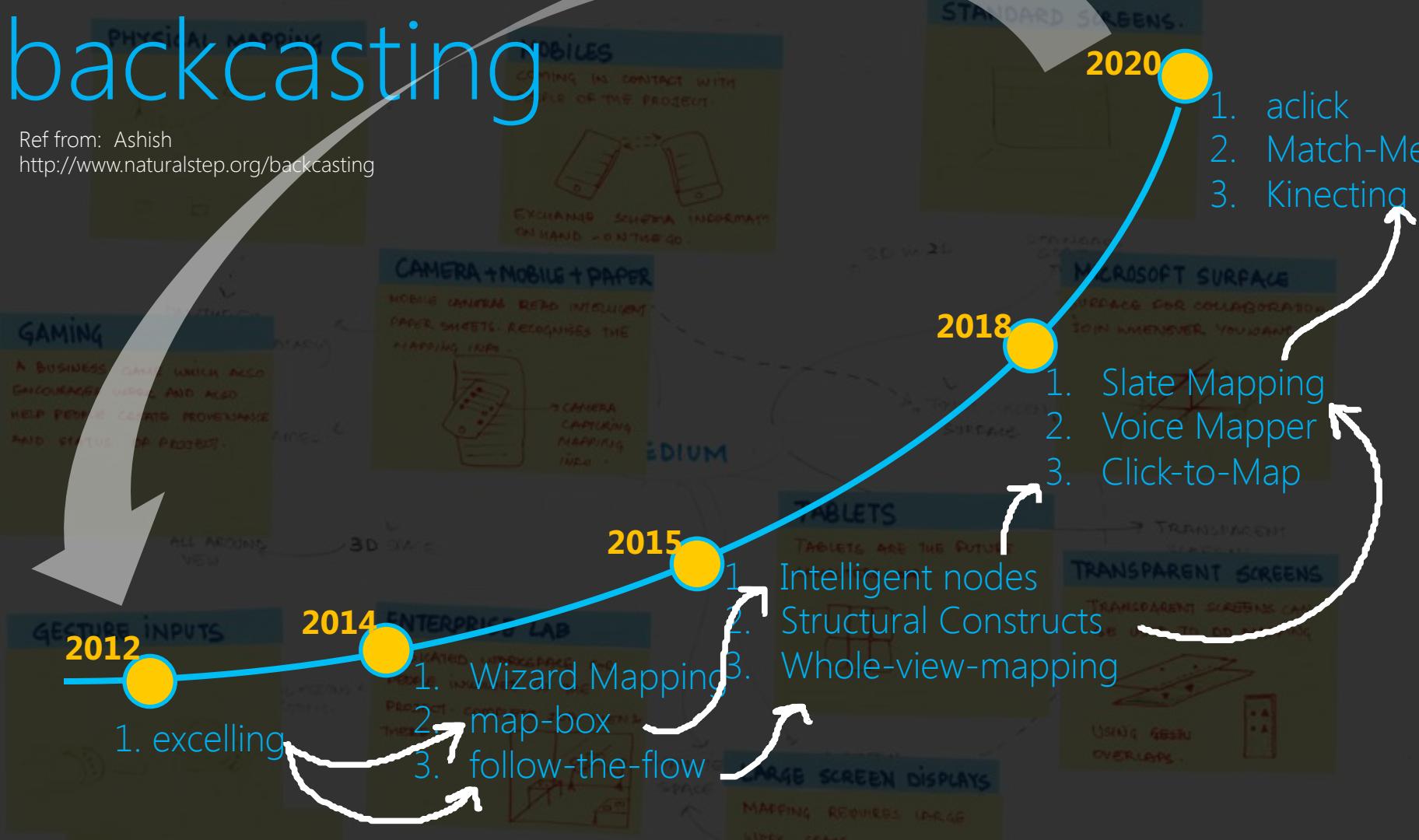
<http://www.naturalstep.org/backcasting>

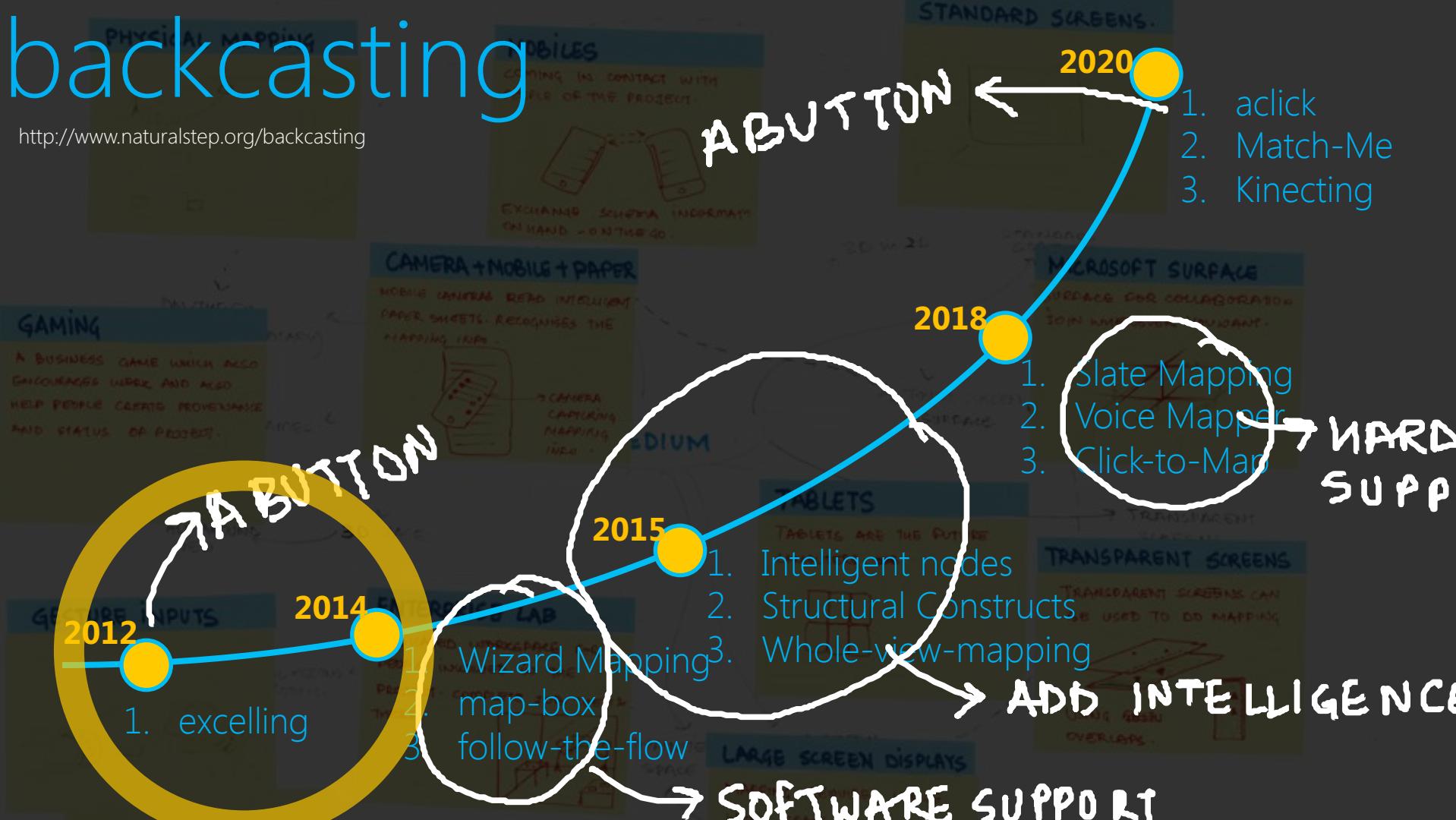


backcasting

Ref from: Ashish

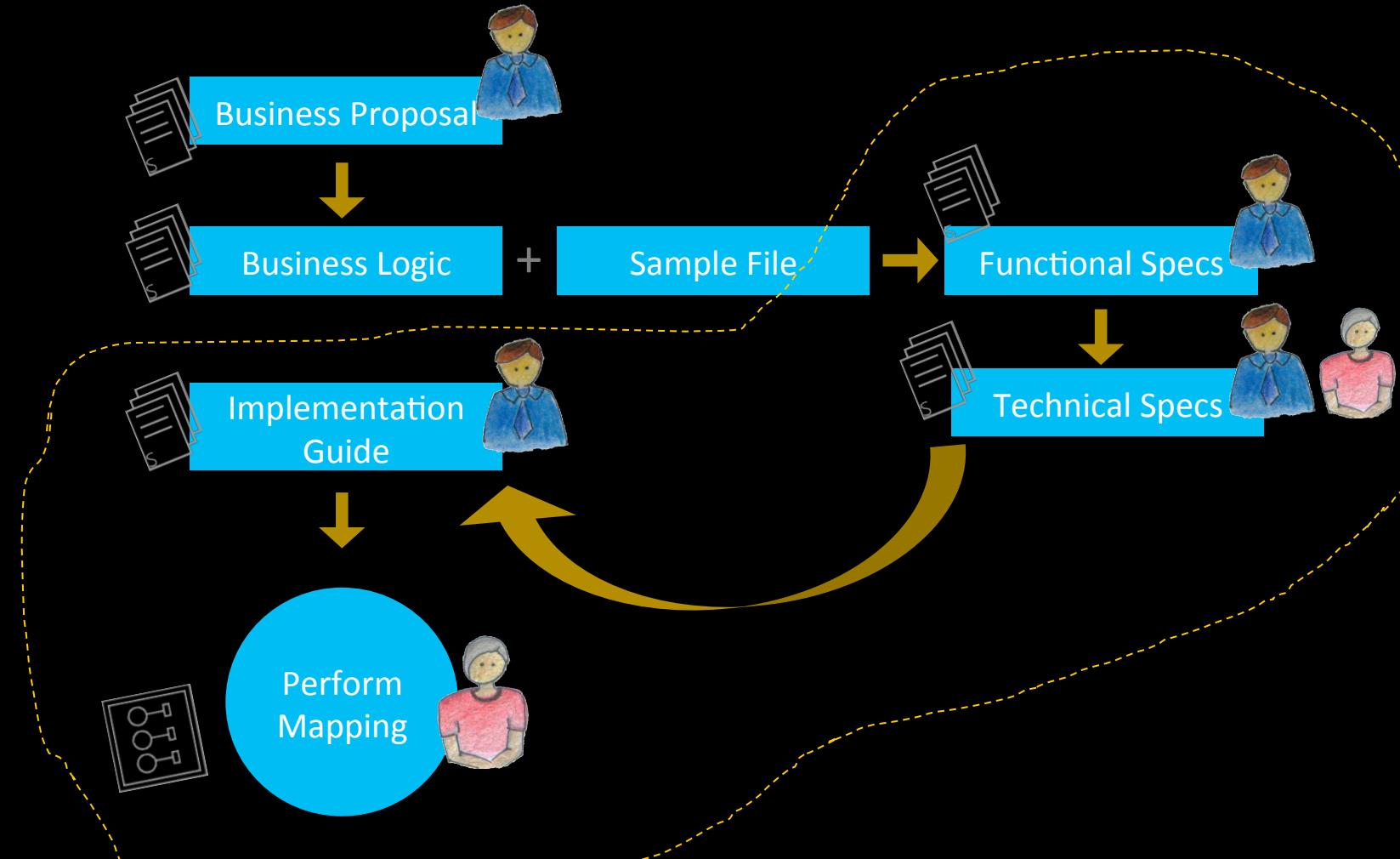
<http://www.naturalstep.org/backcasting>





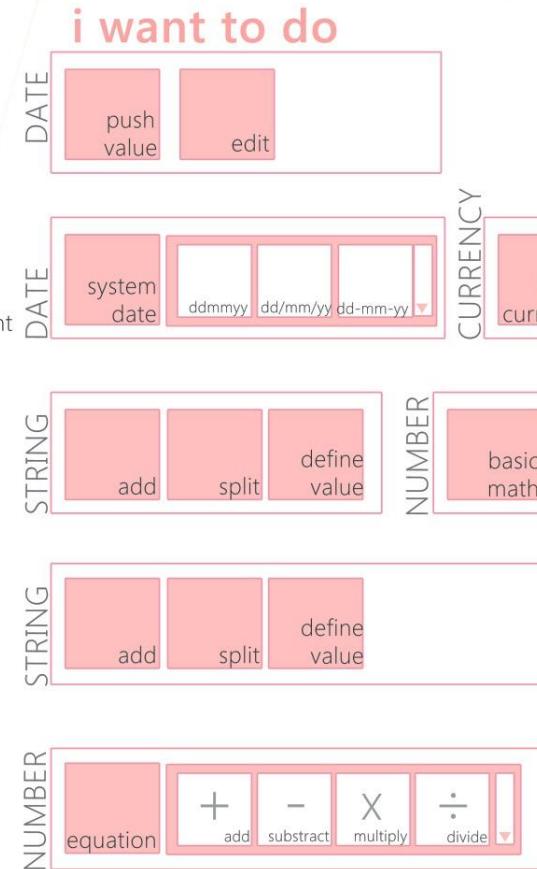
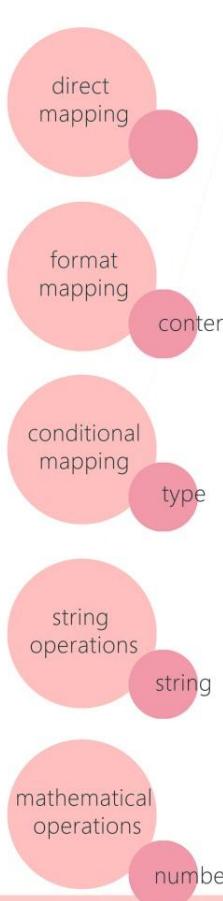
content

DOCUMENTATION FLOW MODEL AND USER ROLES



UnitOfMeasureCode
 CurrentCode
 ServiceLevelCode
 PersonName
 Prefix
 FirstName
 MiddleName
 LastName
 Suffix
 PersonNameElement
 GivenName
 FamilyName
 Initial
 PreferredName
 Address
 Street1
 Street2
 Street3
 City
 County
 State
 Country
 PostalCode
 CountryCode
 Telephone
 TelephoneType
 PartyIDType
 IDType
 ContactType
 Name
 PersonName
 Party
 PartyID
 OrganizationName
 ContactName
 Address
 Telephone
 Email
 AddressedParty
 PartyID
 OrganizationName
 ContactName
 Address
 Telephone
 Email
 Recipient
 Receipt
 Issuer
 Recipient
 CopyTo

content detailing



retail digital receipts

arts defacto schema
http://www.nrf-arts.org/arts_download/schema-non-member

i need

shopper stop
 22.4.11
 address
 5000₹
 visa card

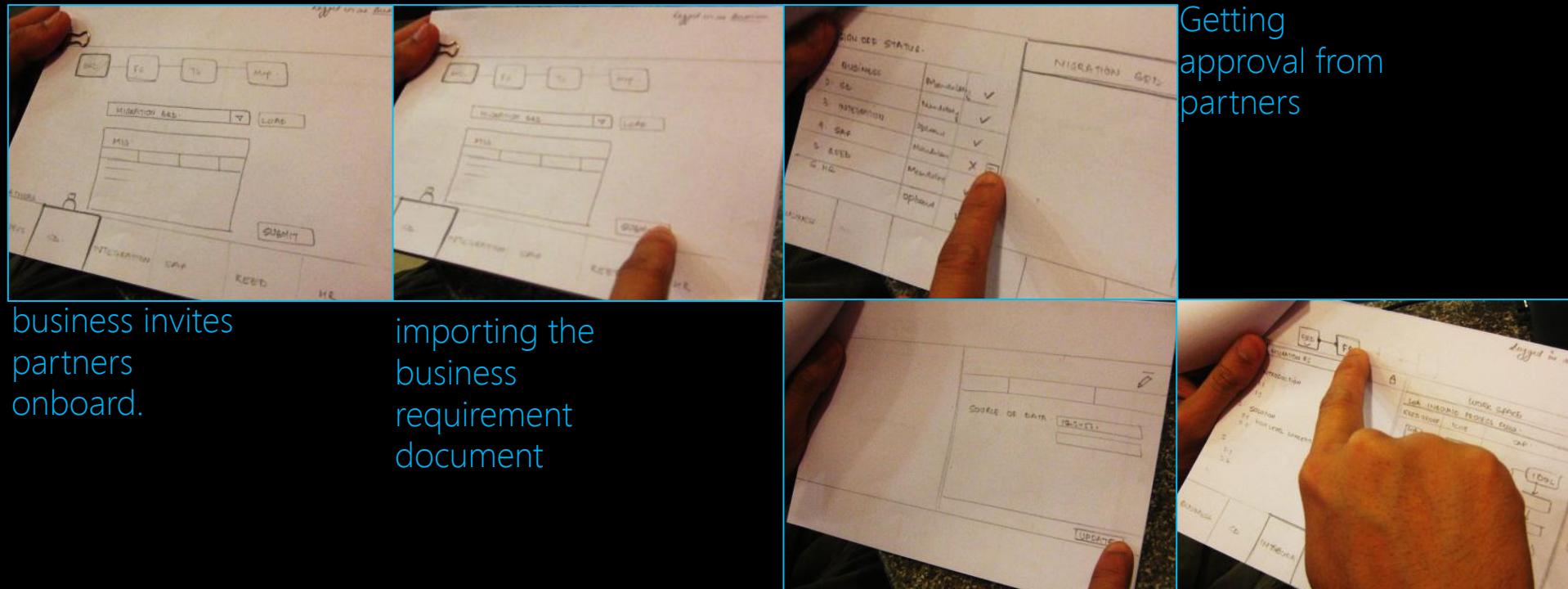


Interface Paper / Static Prototypes

interface level concepts

1. WizMap
2. Intellay
3. Mapic
4. Excellator
5. Maplator
6. Cllop

Prototype 1: WizMap (Wizard mapping+ follow-the-flow)



business invites
partners
onboard.

importing the
business
requirement
document

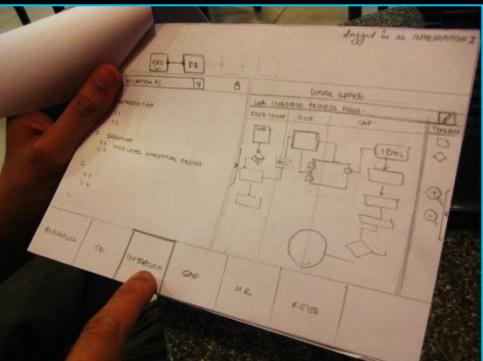
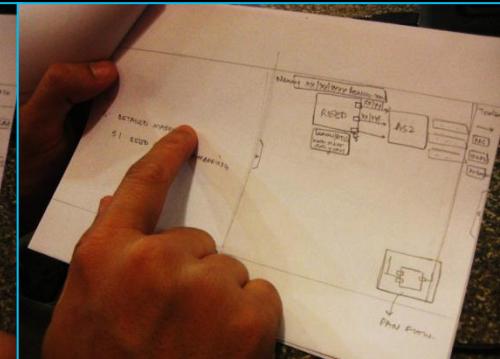
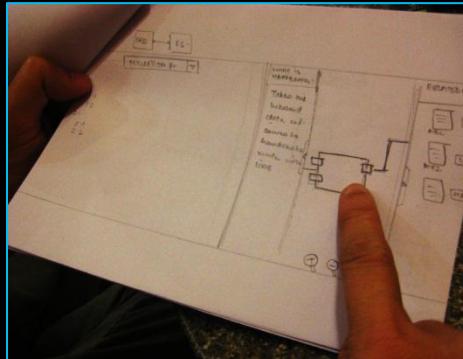
Editing business
requirements as
suggested by SAP

Getting
approval from
partners

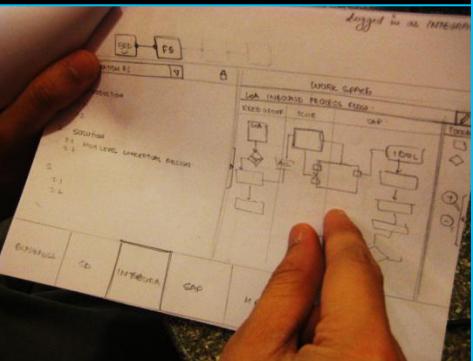
After locking BRD
document user
moves to Functional
Specifications

Prototype 1: WizMap (Wizard mapping+ follow-the-flow)

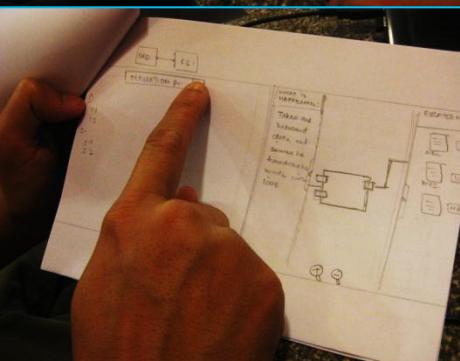
User selects OUTBOUND from the interactive workflow



A workspace is generated which gives a whole view as per trading partners



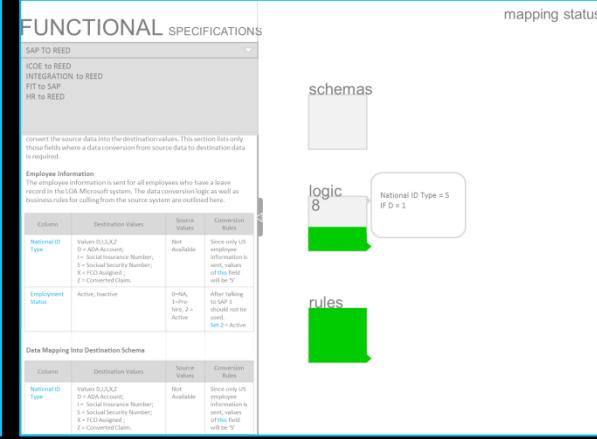
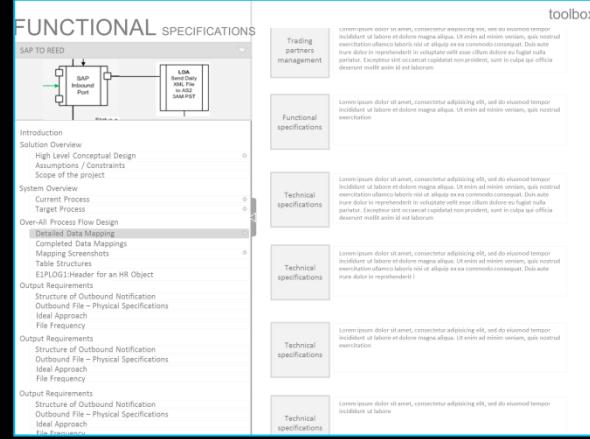
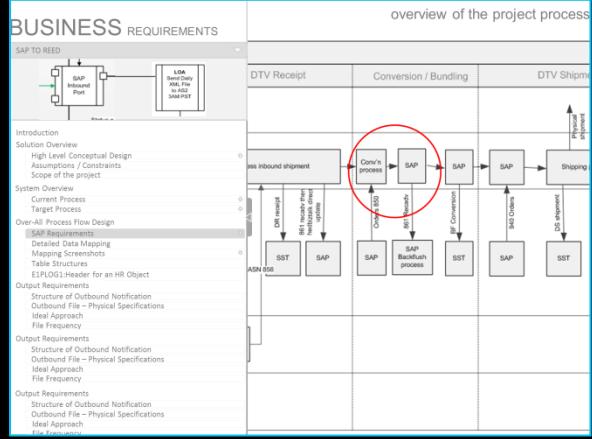
user zooms in to one module



Information about the module :
-What is happening there?
-Related Documents

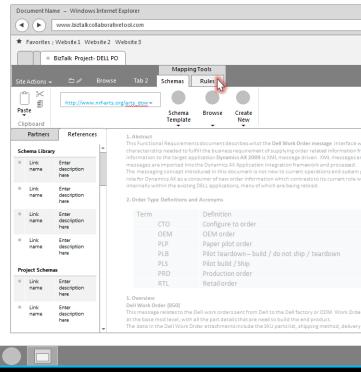
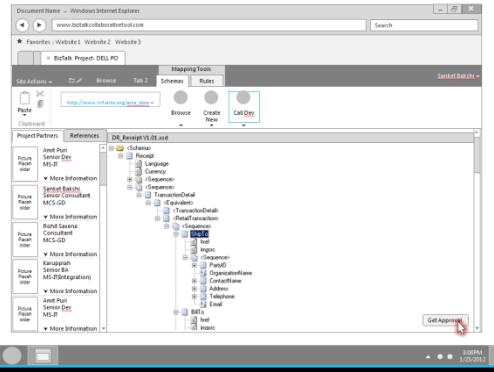
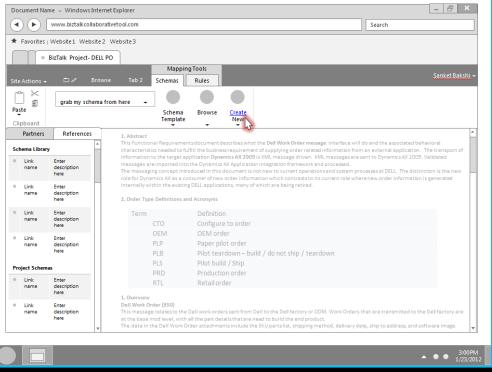
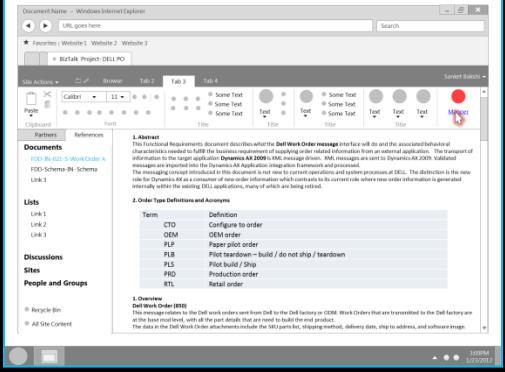
Continue to others parts of the functional document

Prototype 2: Intellay



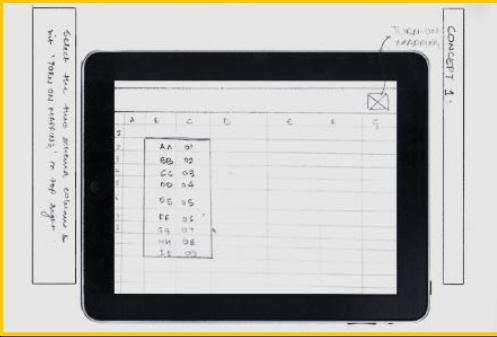
Infinite work space
User Makes the system intelligent with every step
OOPs concept (Reuse, Inheritance)

Prototype 3: Mapic



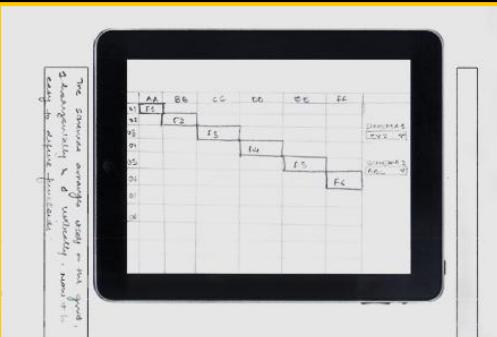
Unlock your target

Prototype 4: Excellator



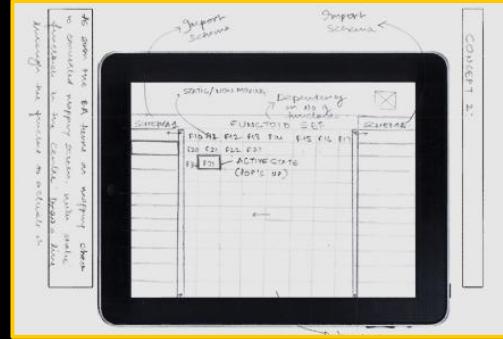
IDEA 1

1. If we assume the mapping elements are converted to two columns like a table.
2. User selects 'MAP IT' and the information gets transformed to a map.



IDEA 2

1. The Schemas arrange themselves on a horizontal and a vertical grid. Define a functoid to define a logic between source and destination



IDEA 3

1. As soon the User selects 'TURN-ON MAPPING' feature the content on the existing excel sheet transforms to mapping area.
2. Each box defines a logic.
3. User has to draw a line through the box to concatenate the logic

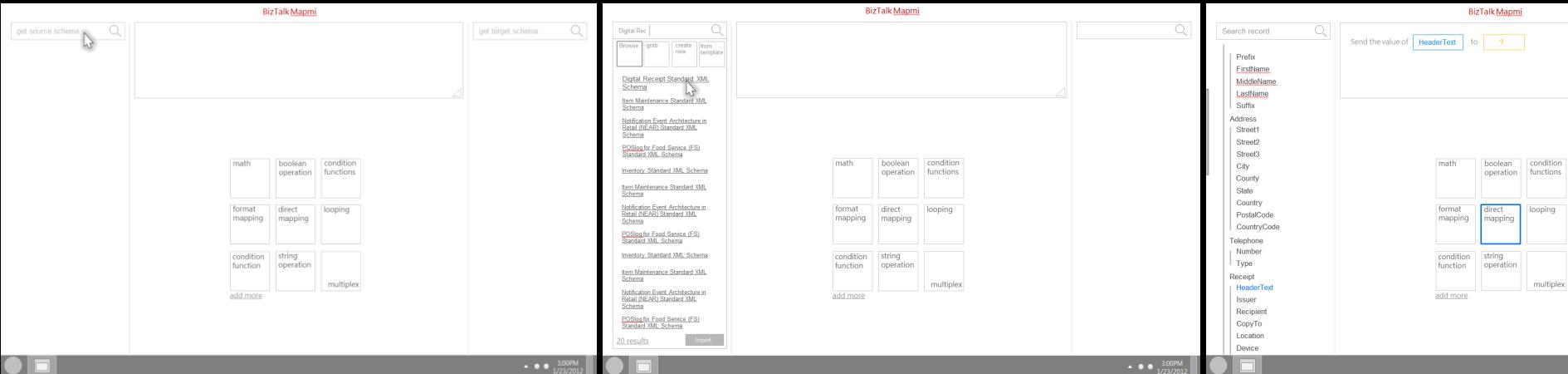
Prototype 4: Excellator

The image displays three side-by-side screenshots of the Excellator application interface, illustrating its various tools and features:

- Screenshot 1 (Left):** Shows the main application window with a toolbar at the top containing "File", "Tab 1", "Tab 2", "Tab 3", and "Tab 4". The "File" menu has options: Save, Save As, Open, and Close. Below the toolbar is a "Clipboard" section with "Paste" and "Font" buttons. A large central area contains four empty rectangular boxes. At the bottom is a "Search Template" input field and a row of buttons labeled "BRD", "Functional Spec", "Technical Spec", and "Mapping Doc". The status bar at the bottom shows "3:00PM" and "1/23/2012".
- Screenshot 2 (Middle):** Shows the application window with a toolbar at the top containing "File", "Tab 1", "Tab 2", "Tab 3", "Tab 4", and "BigTable". The "BigTable" button is highlighted with a red box. The main area is a grid with columns labeled A through O and rows labeled 1 through 20. The first few rows contain placeholder text like "SomeText" and "Text". The status bar at the bottom shows "3:00PM" and "1/23/2012".
- Screenshot 3 (Right):** Shows the application window with a toolbar at the top containing "File", "Tab 1", "Tab 2", "Tab 3", "Tab 4", and "Mapper". The "Mapper" button is highlighted with a red box. A context menu is open over a cell in the grid, listing options such as "Cut", "Copy", "Paste", "Font", "Bullets", "Numbering", "Hyperlink...", "Synonyms", "Translate", "Insert", "Delete Rows", "Delete Columns", "Merge Cells", "Split Cells...", "Select Table", and "Format Shape...". The status bar at the bottom shows "3:00PM" and "1/23/2012".

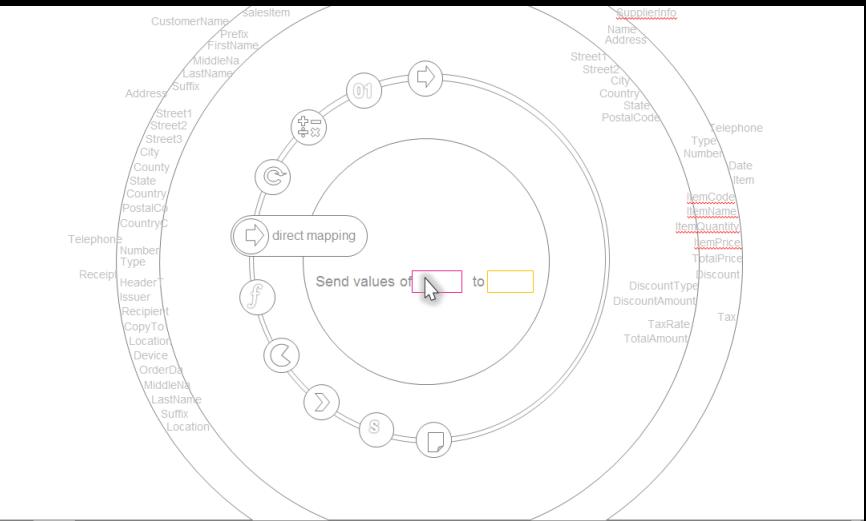
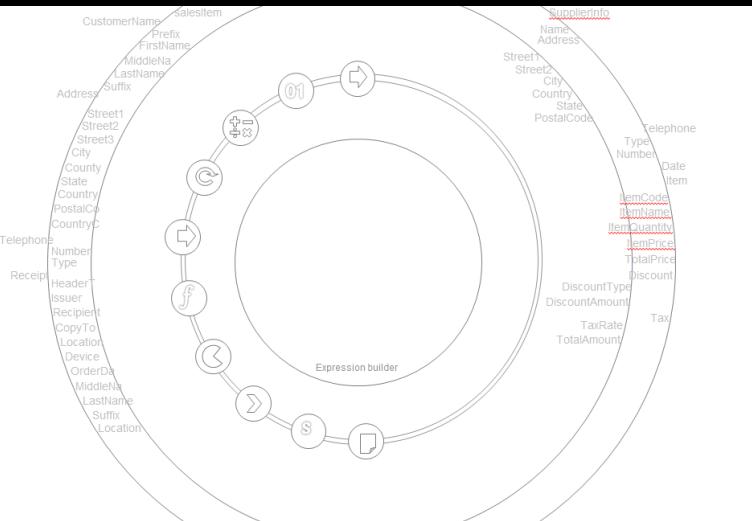
Users tool
Mapping toolbar(Domain based)
Example feedbacks

Prototype 5: Maplator



Focus + Context
Natural User Language

Prototype 6: Cllop



Maximum space for schema Fill in the blanks

Evaluation- Stage 1

evaluation process

concept walkthrough



feedback interview + feedback form

User Name: _____
Department: _____
User Role: _____

1. What features of the concept did you like the most?

Why? _____

2. What features of the concept you liked the least?

Why? _____

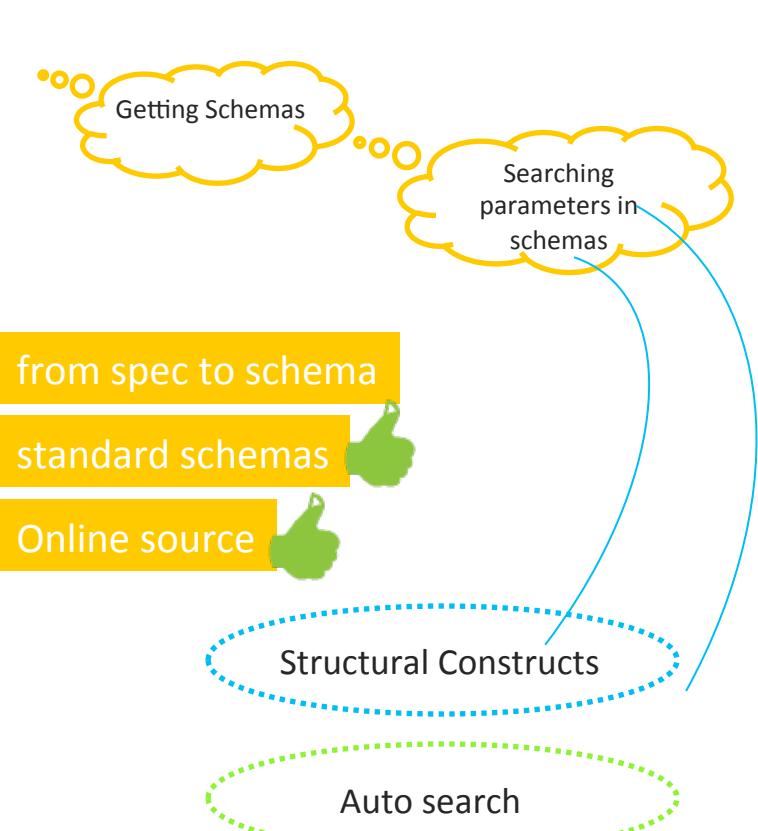
3. Please name which is the most important section of this workflow?

4. Was performing operations easy to understand?
If No, please explain why? _____

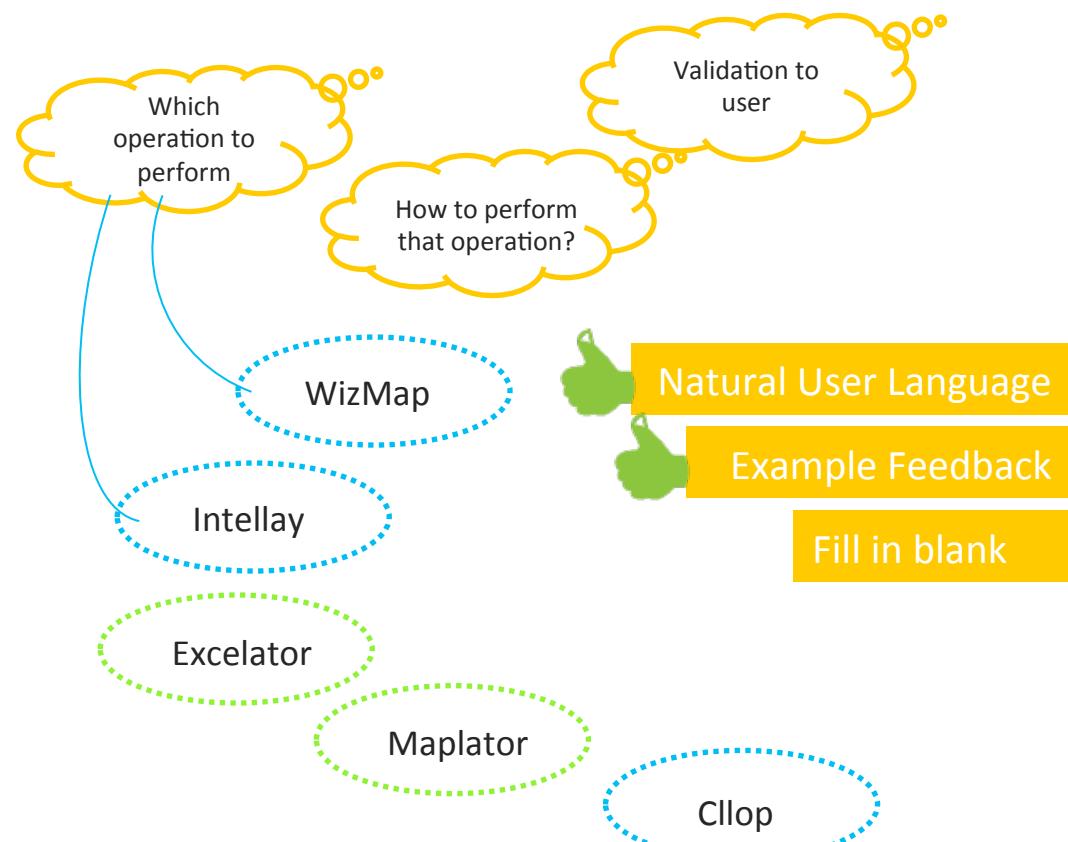
Can you give an example of the most complicated operation you think is important? (Other than Looping) _____

expert review

Schema



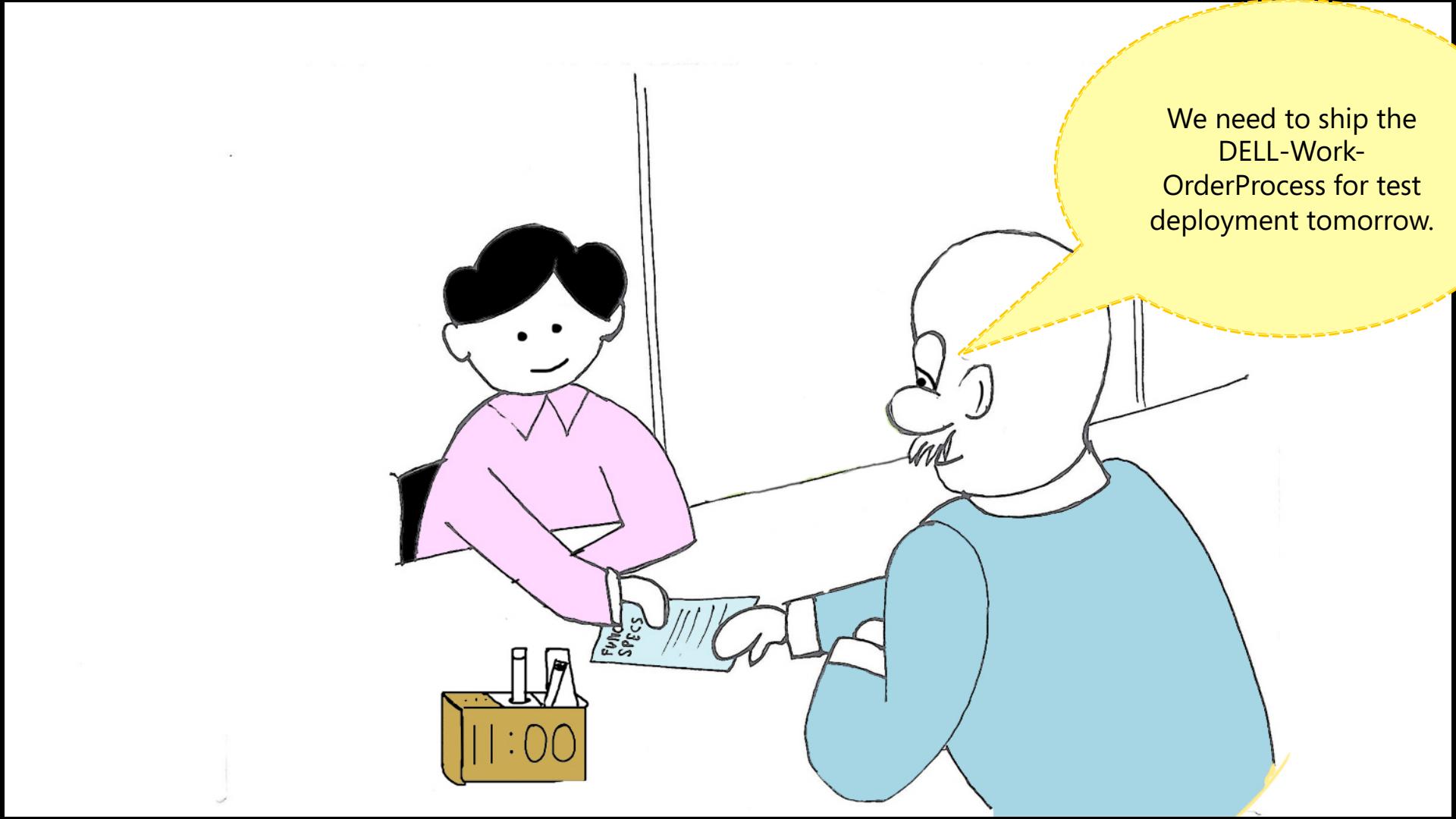
Operation



Concept Evaluation & Findings (with users/pm's/experts)

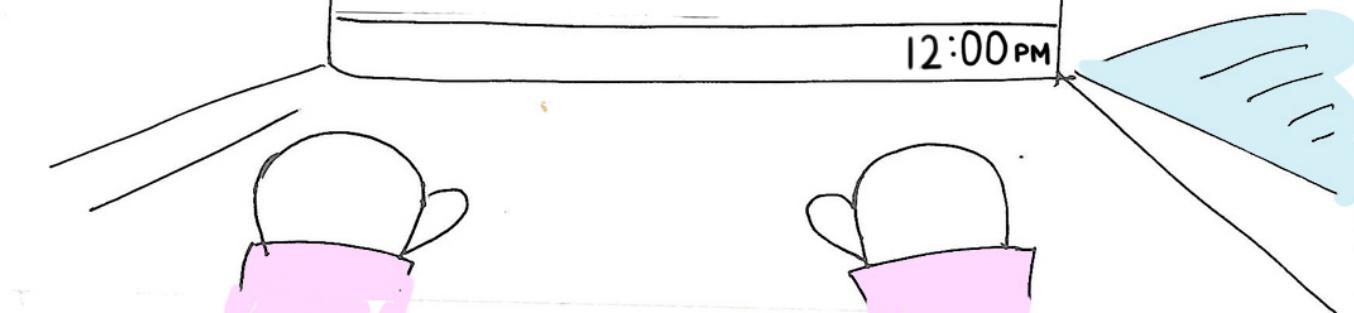
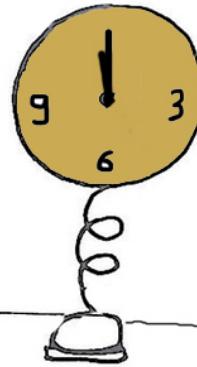
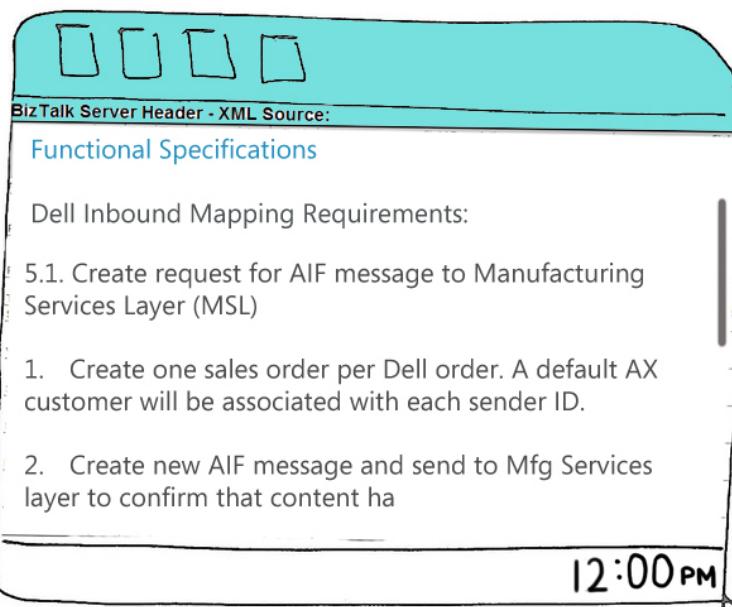
final concept

scenario - Before



We need to ship the
DELL-Work-
OrderProcess for test
deployment tomorrow.





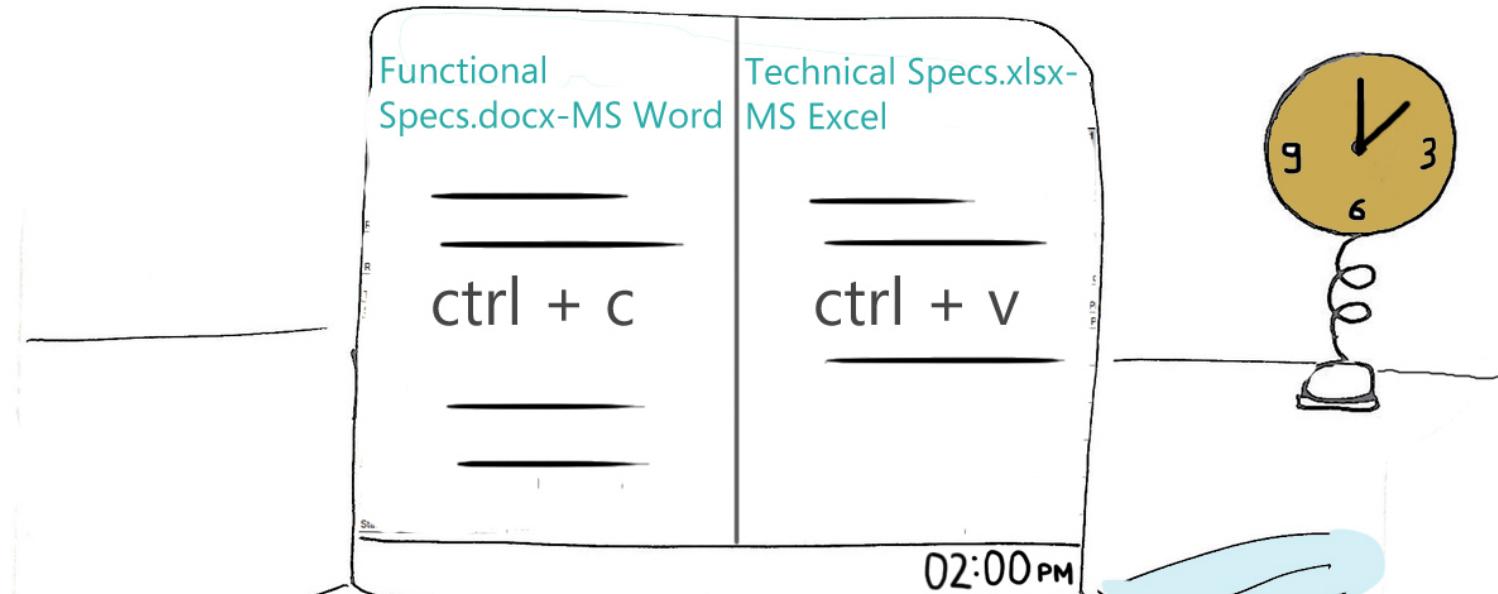
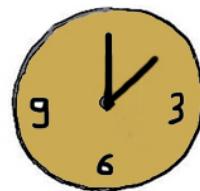
Functional
Specs.docx-MS Word

ctrl + c

Technical Specs.xlsx-
MS Excel

ctrl + v

02:00 PM



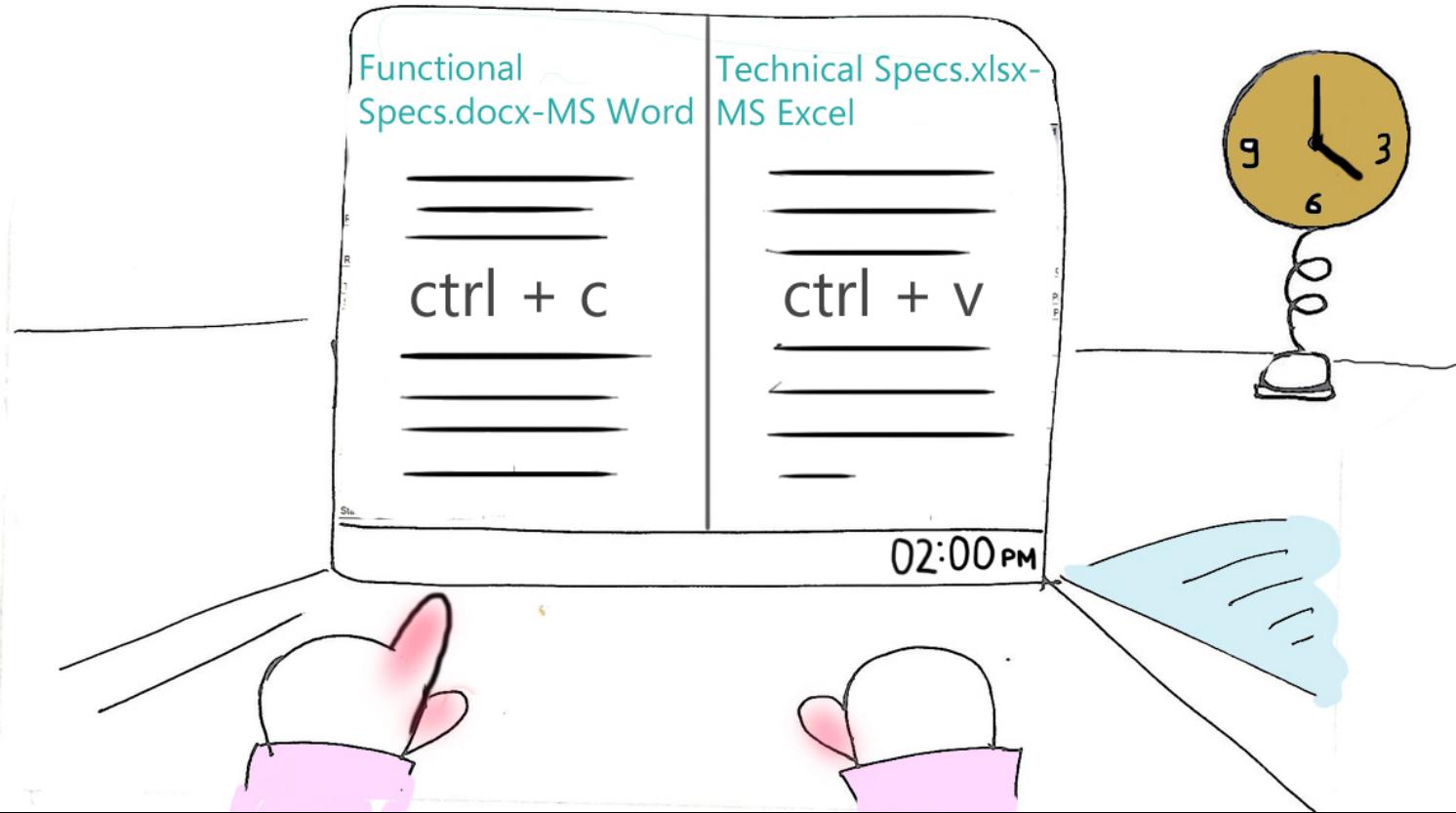
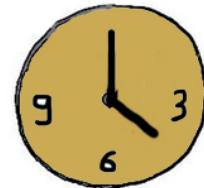
Functional
Specs.docx-MS Word

ctrl + c

Technical Specs.xlsx-
MS Excel

ctrl + v

02:00 PM



Functional
Specs.docx-MS Word

ctrl + c

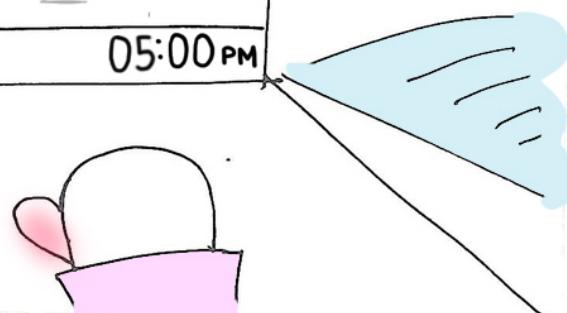
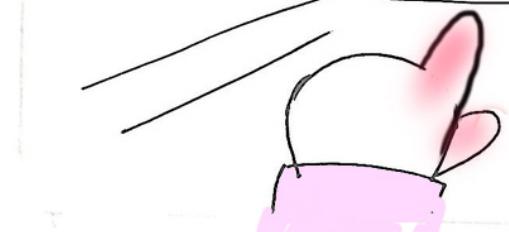
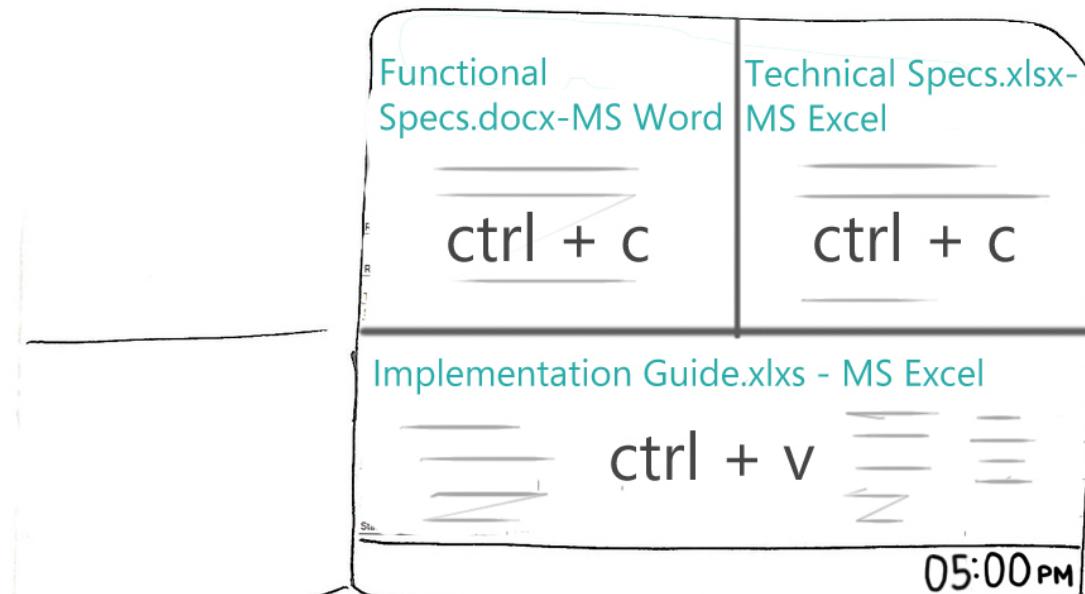
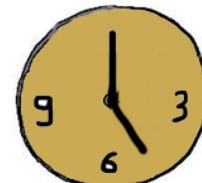
Technical Specs.xlsx-
MS Excel

ctrl + c

Implementation Guide.xlsx - MS Excel

ctrl + v

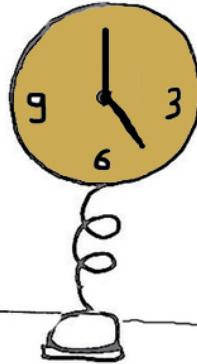
05:00 PM



Oh ! It's already
5'o clock... !

| BizTalk Server Header - XML Source: | | | | | | | | |
|-------------------------------------|-----------|-----------|------------|--------------|---------|----------------------|---|---------|
| Field Name | Field Min | Field Max | Field Type | Field Format | A or E? | Field Used/ Must Use | Field Description | Field |
| routing | 7 | 7 | AN | | A | M | Record tag. | rou |
| ReceiverQualifier | 2 | 40 | AN | | A | U* | *Mandatory for BizTalk when additional identification to further qualify the ReceiverKey is deemed necessary by eBIS. The ReceiverQualifier is an ID which qualifies the ReceiverKey. | LV / 09 |
| ReceiverKey | 3 | 40 | AN | | A | M | The ReceiverKey is a unique key agreed upon between eBIS and the application (when MS is the recipient the value will always be Microsoft). | Micro |
| TransactionType | 1 | 6 | AN | | A | U | Standard transaction name e.g. ORDERS, INVOIC, etc. or document name assigned by eBIS. | SAP |
| Standard | 1 | 1 | AN | | A | U | The standard for XML transactions is proprietary. | P |
| Version | 1 | | | | | | | |
| SenderQualifier | 2 | | | | | | | |
| SenderKey | 3 | | | | | | | |
| DocumentName | 10 | | | | | | | |
| ControlNumber | 1 | | | | | | | |
| Status | 1 | 1 | AN | | A | U | T=Test P= Production | |

5:00 PM



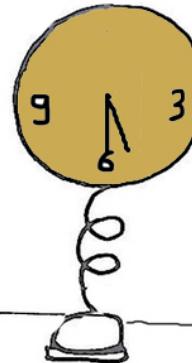


She must be
waiting!
Let me inform her
first...

Finally, the mapping specs is complete !

| Field Name | Field Min | Field Max | Field Type | Field Format | A or E? | Field Used/ Must Use | Field Description | File |
|-------------------|-----------|-----------|------------|--------------|---------|----------------------|---|----------------|
| routing | 7 | 7 | AN | | A | M | Record tag. | |
| ReceiverQualifier | 2 | 40 | AN | | A | U* | "Mandatory for BizTalk when additional identification to further qualify the ReceiverKey is deemed necessary by eBIS. The ReceiverQualifier is an ID which qualifies the ReceiverKey. | LV / |
| ReceiverKey | 3 | 40 | AN | | A | M | The ReceiverKey is a unique key agreed upon between eBIS and the application (when MS is the recipient the value will always be Microsoft). | MSXML_10_S |
| TransactionType | 1 | 6 | AN | | A | U | Standard transaction name e.g. ORDERS, INVOIC, etc. or document name assigned by eBIS. | Si |
| Standard | 1 | 1 | AN | | A | U | The standard for XML transactions is proprietary. | |
| Version | 1 | 15 | AN | | A | U | XML standard and version (e.g. xCBL v. 3.5) or if no standard is available, then "1" unless otherwise agreed to by eBIS. | |
| SenderQualifier | 2 | 40 | AN | | A | U* | "Mandatory for BizTalk when additional identification to further qualify the SenderKey is deemed necessary by eBIS. The SenderQualifier is an ID which qualifies the SenderKey. | |
| SenderKey | 3 | 40 | AN | | A | M | The Sender Key is a unique key agreed upon between eBIS and the application (when MS is the sender the value will always be Microsoft). | Re |
| DocumentName | 10 | 31 | AN | | A | M | Document schema name assigned by eBIS. | MSXML_10_S |
| ControlNumber | 1 | 32 | AN | | A | M | A unique ID to identify the interchange that a message or group of messages were wrapped in. An incrementing number value is the eBIS preferred method for a ControlNumber e.g. 5001, 5002, 5003, etc. Another possible format for a ControlNumber is a date. | DateTimeString |
| Ctrl | | | | | A | II | T – Test P – Production | |

5:30 PM

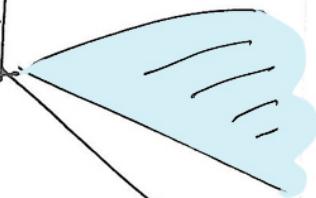
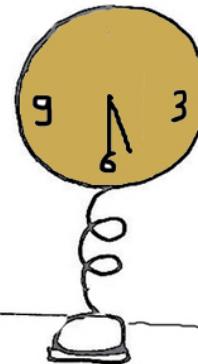


Hi Rakesh,

Attached is the mapping sheet for Dell Work-flow, the map needs to test deployed tomorrow at the client side.



5:30 PM





All my bags are
packed I am ready
to go....

lalalalalala...





Its 5:30... If I'll start it now I
barely reach for the movie
plan with Ritu.

I HATE LUV ST

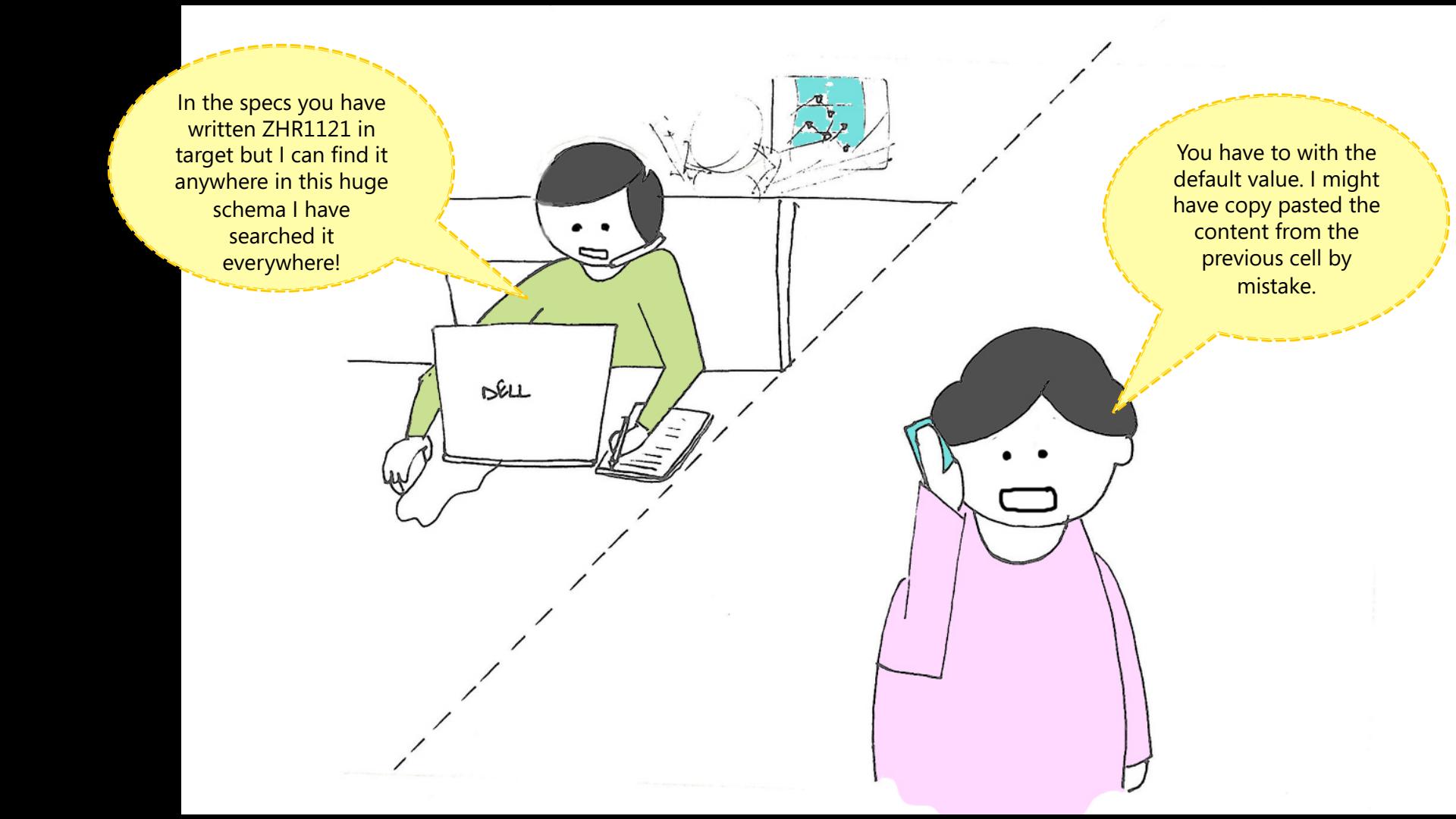
9:00



Let me just
complete it
quickly !

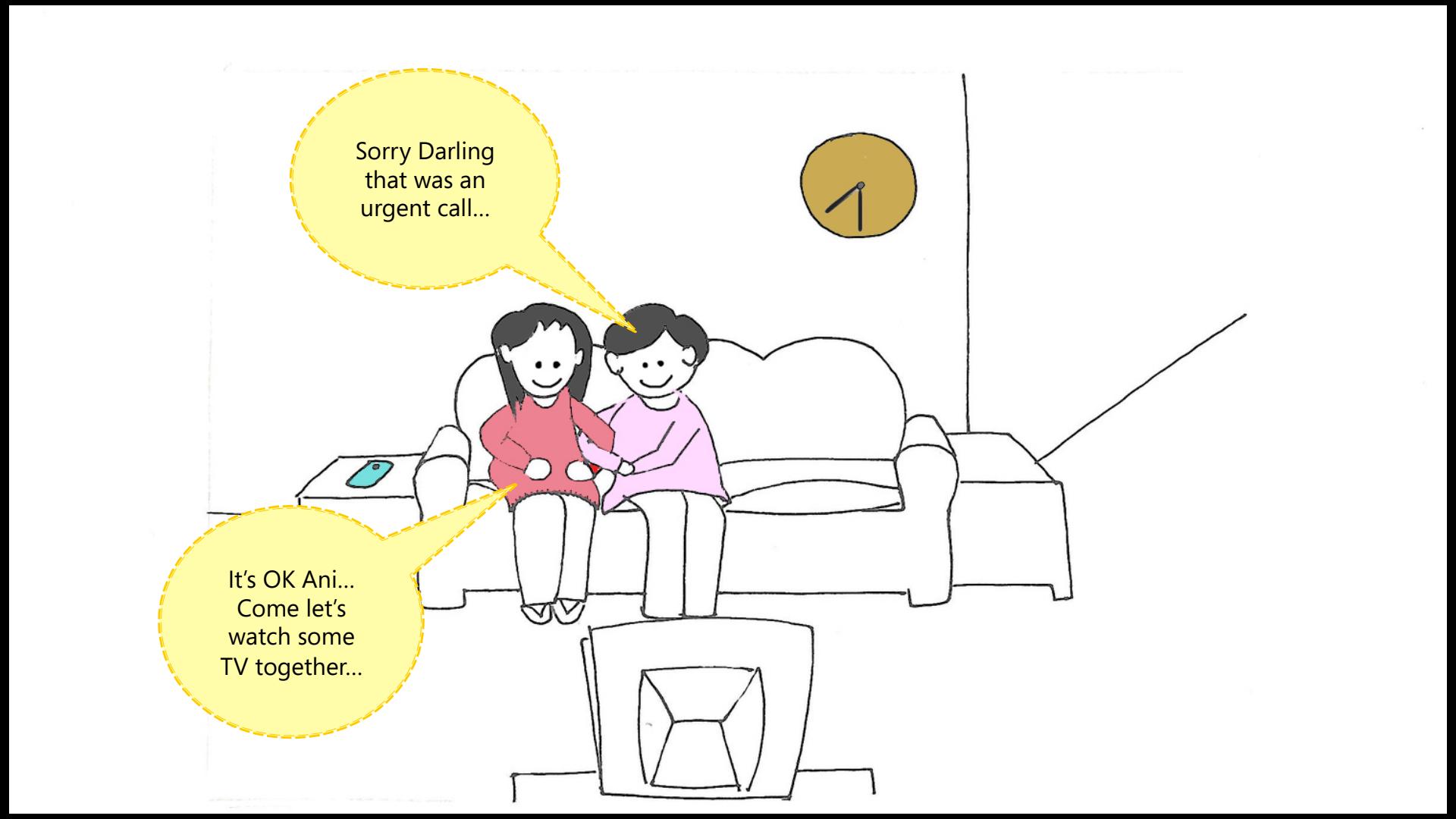
Rajma is
really nice
today!





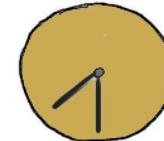
In the specs you have written ZHR1121 in target but I can find it anywhere in this huge schema I have searched it everywhere!

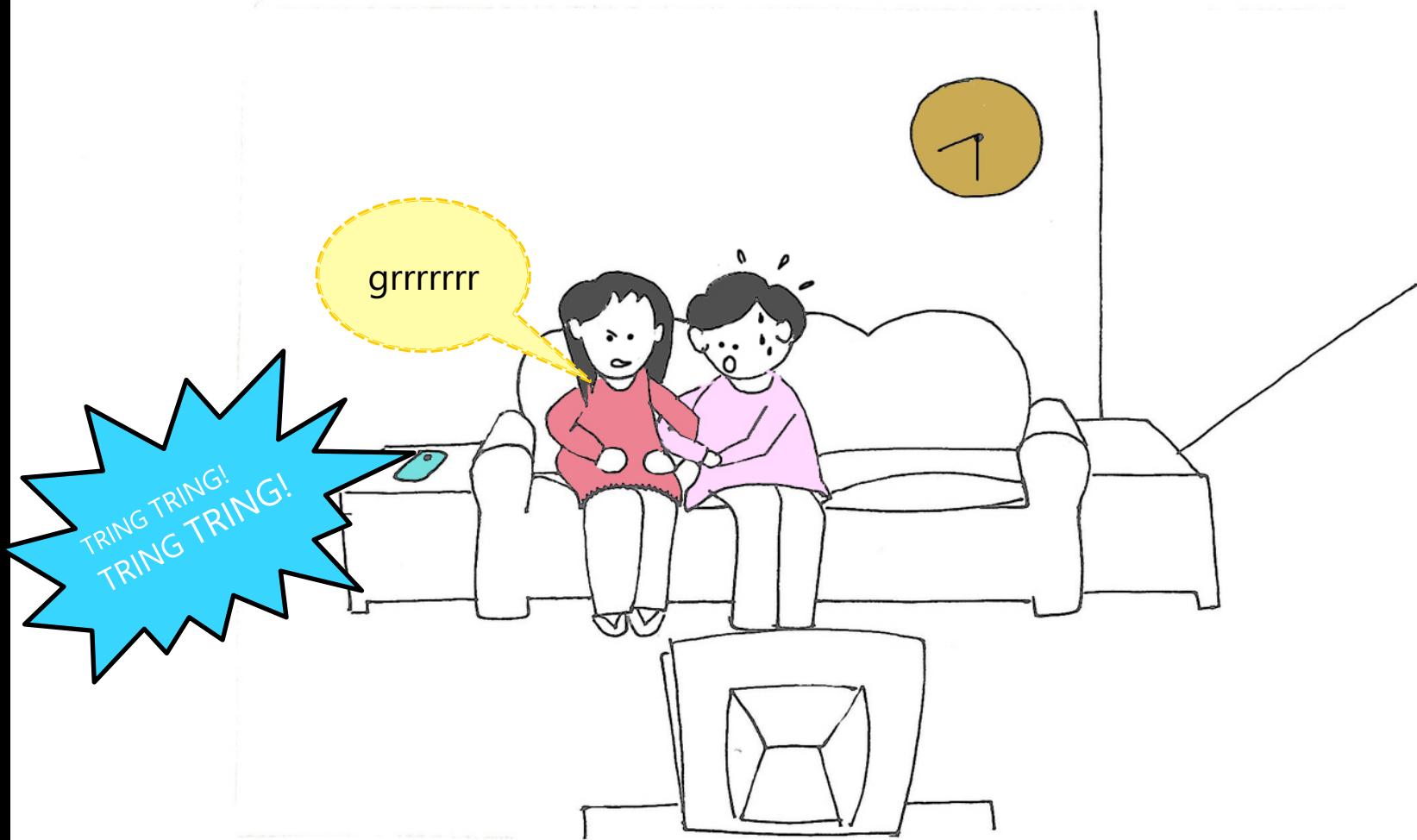
You have to with the default value. I might have copy pasted the content from the previous cell by mistake.

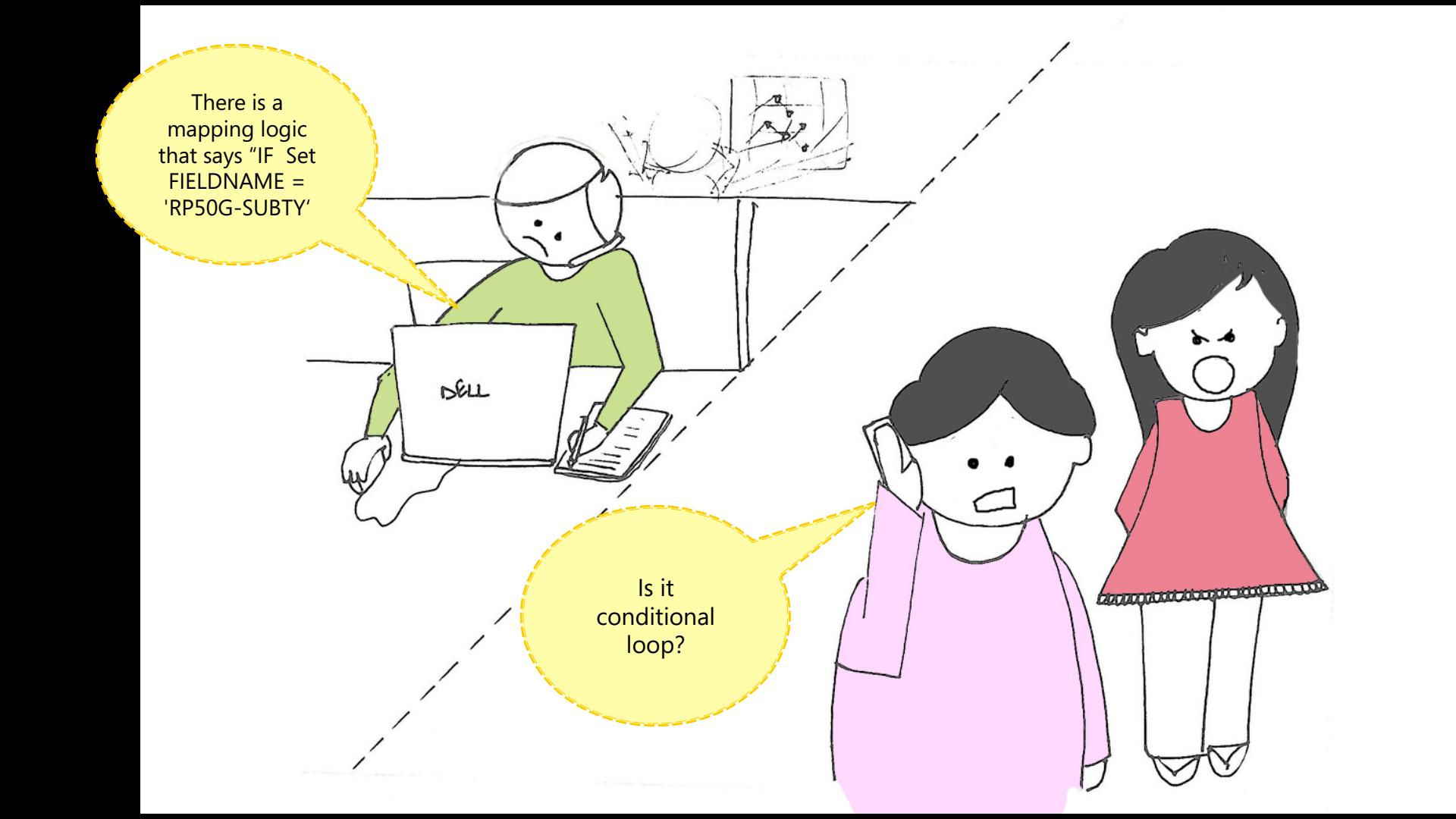


Sorry Darling
that was an
urgent call...

It's OK Ani...
Come let's
watch some
TV together...

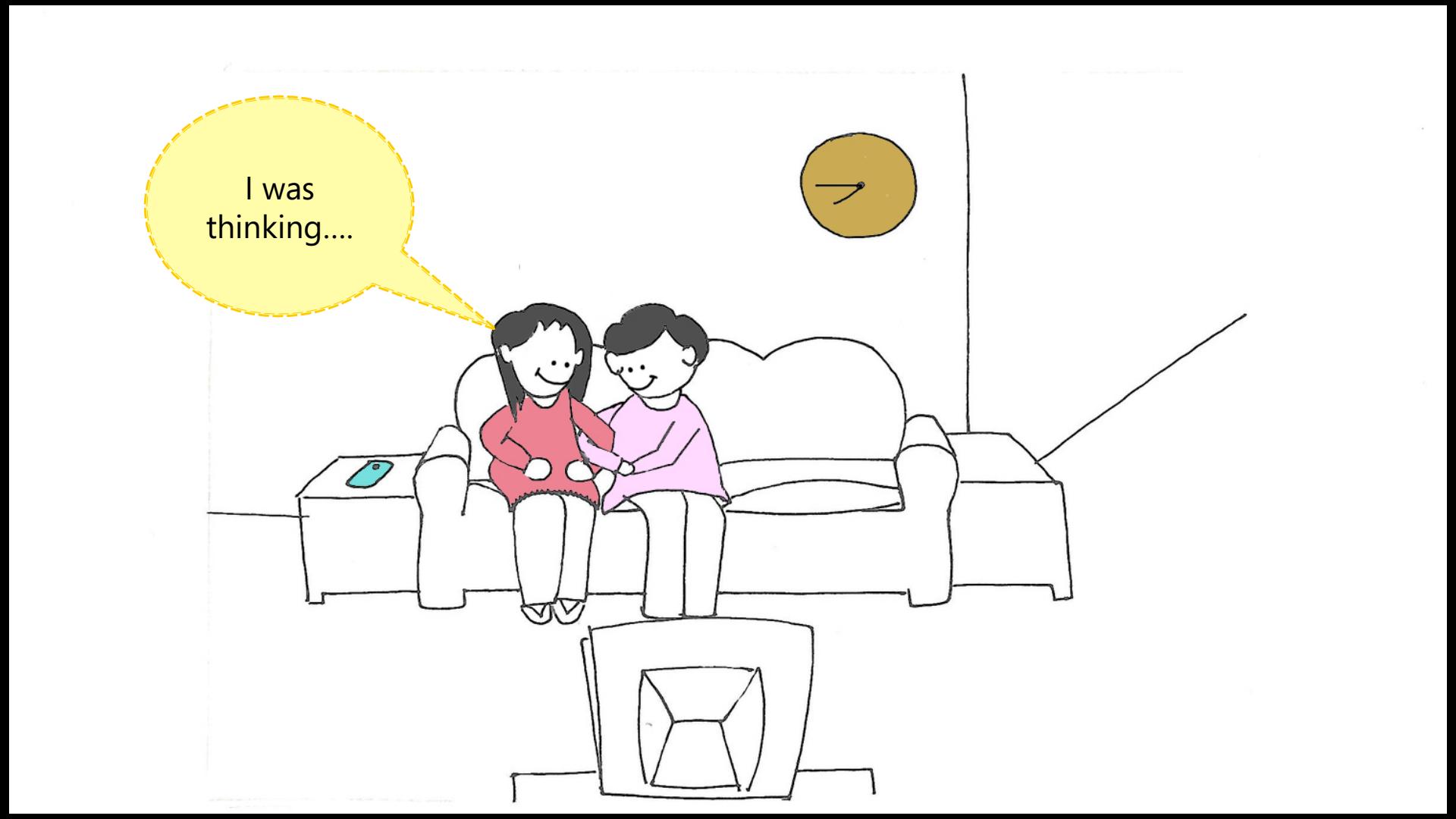




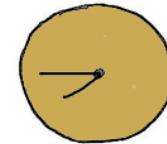


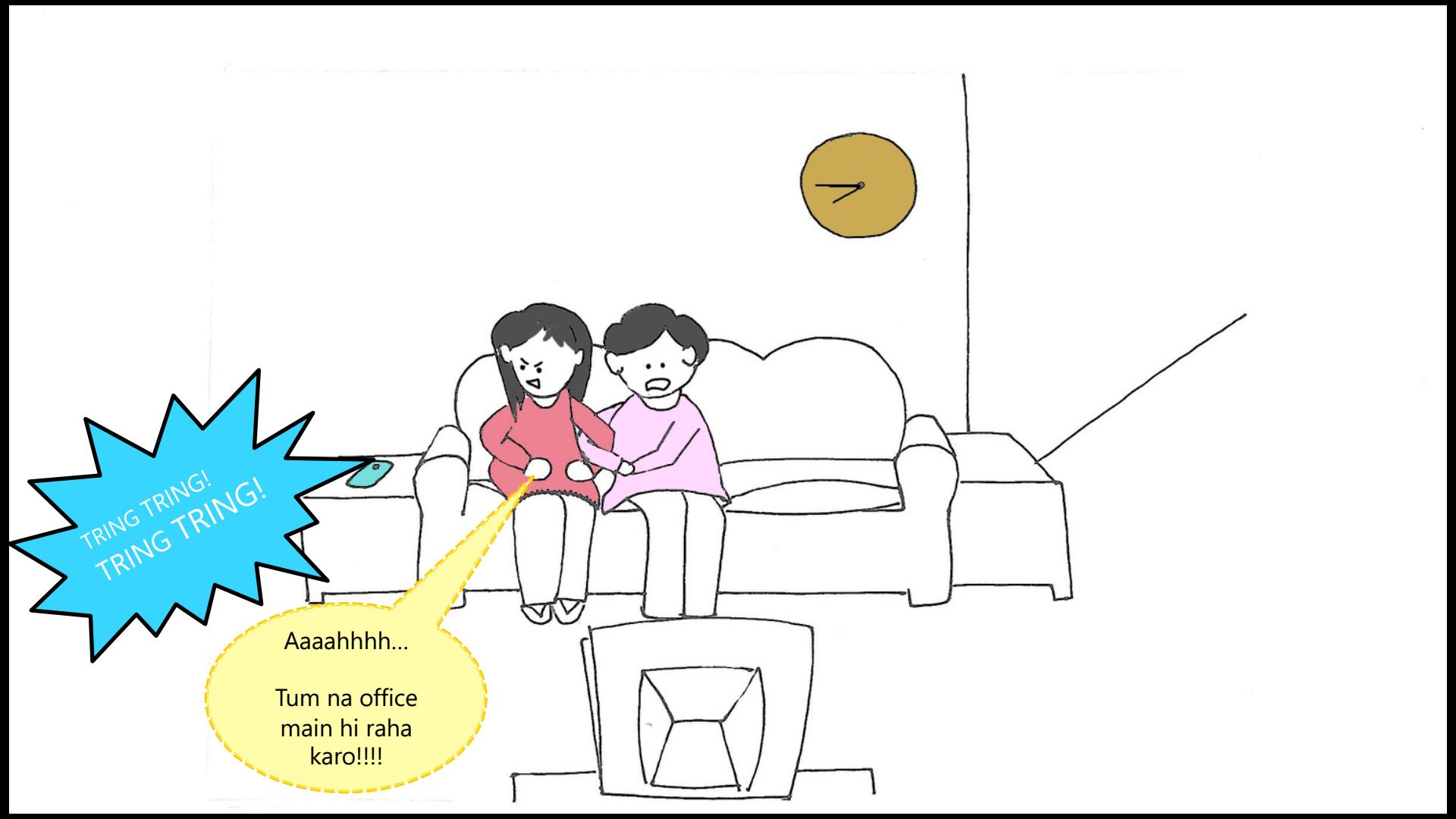
There is a mapping logic
that says "IF Set
FIELDNAME =
'RP50G-SUBTY'

Is it
conditional
loop?



I was
thinking....





TRING TRING!
TRING TRING!

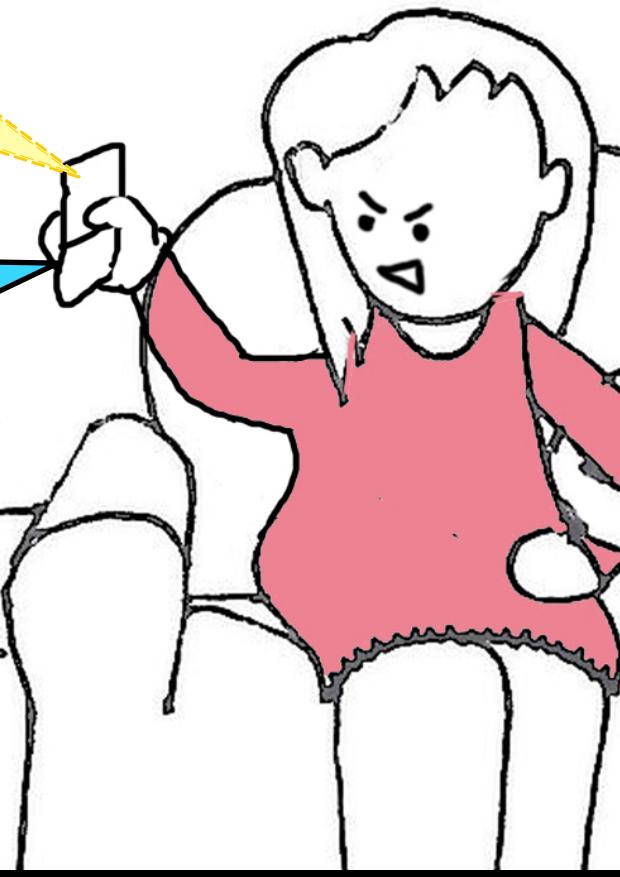
Aaaahhhh...

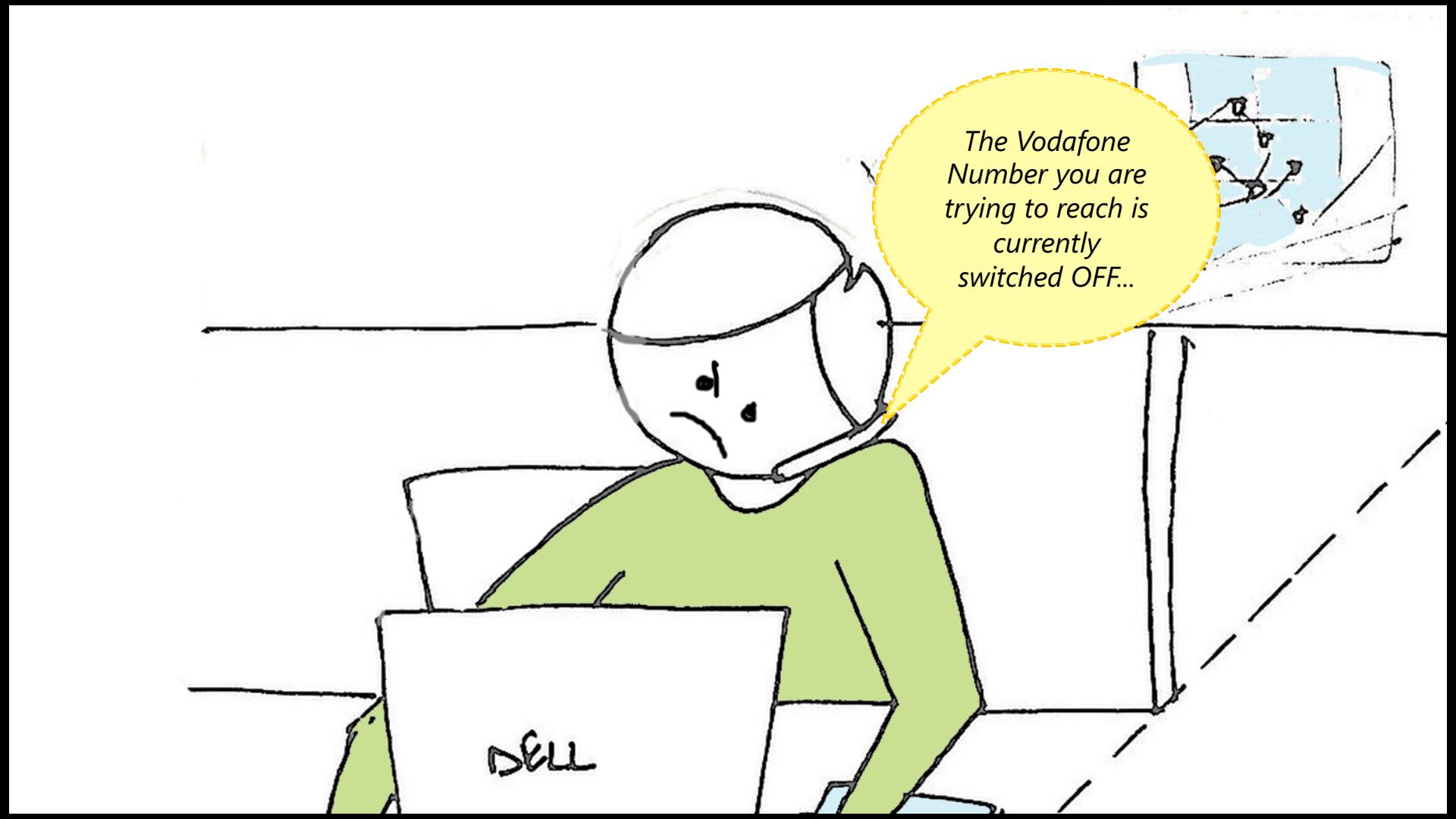
Tum na office
main hi raha
karo!!!!



ZZZZZZZ.....

TRING TRING!
TRING TRING!

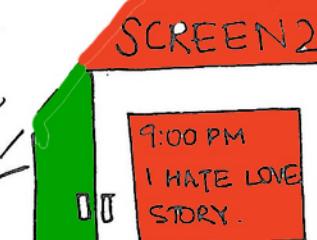


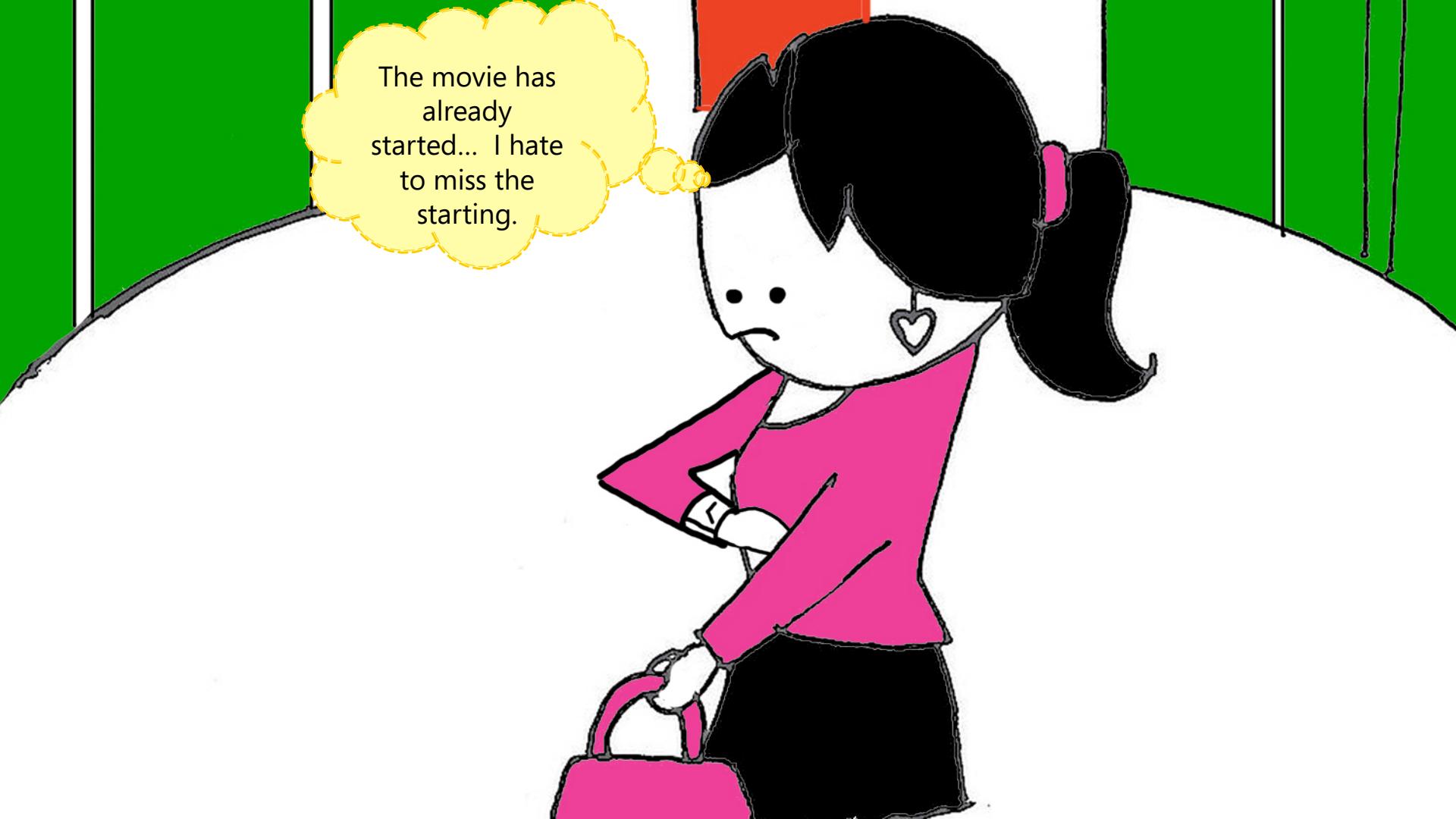


*The Vodafone
Number you are
trying to reach is
currently
switched OFF...*

I can't
understand
what to do
now...!!

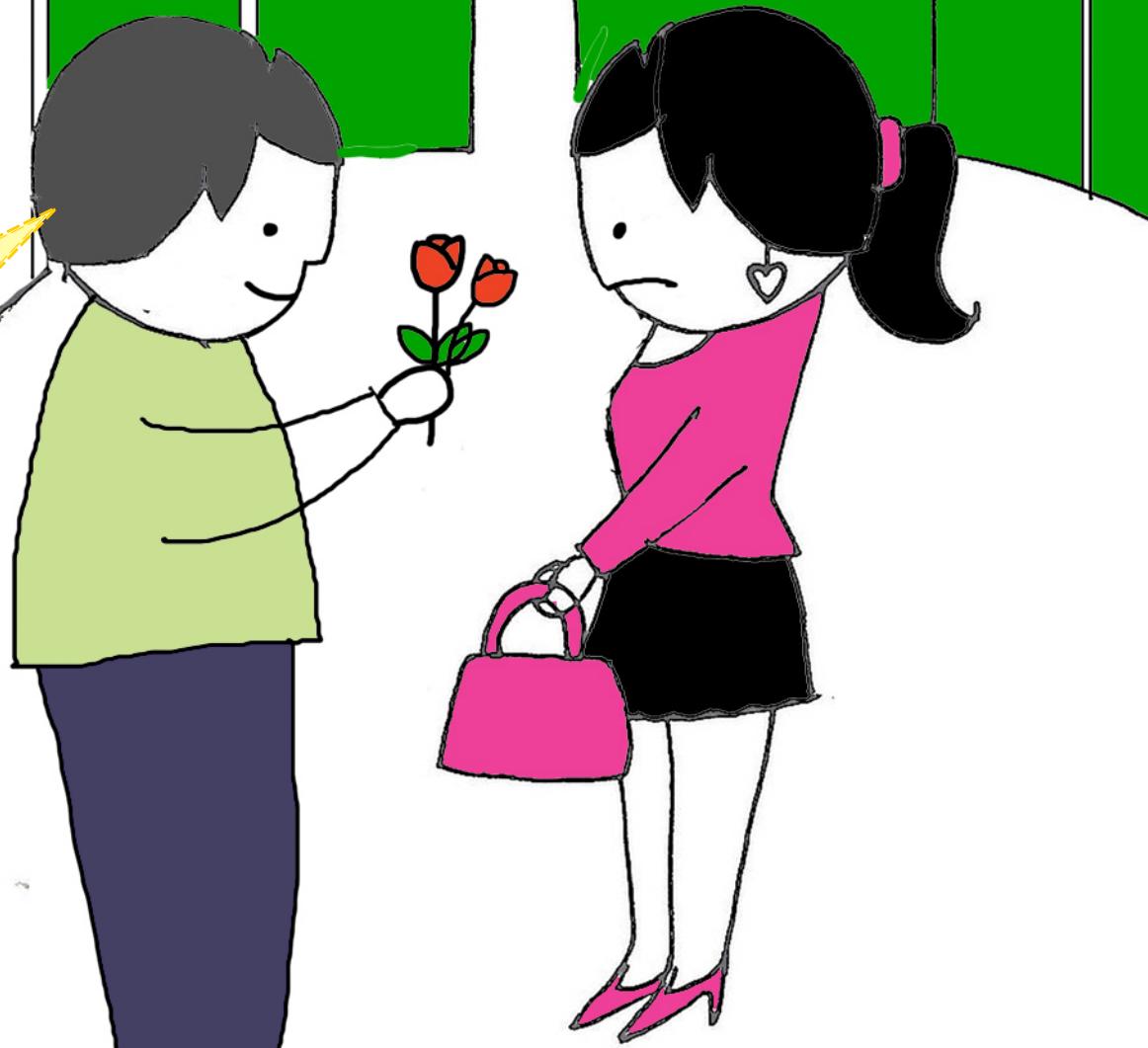
Oh! Ritu must be
waiting in the PVR !!!
Let me wrap as much I
know soon



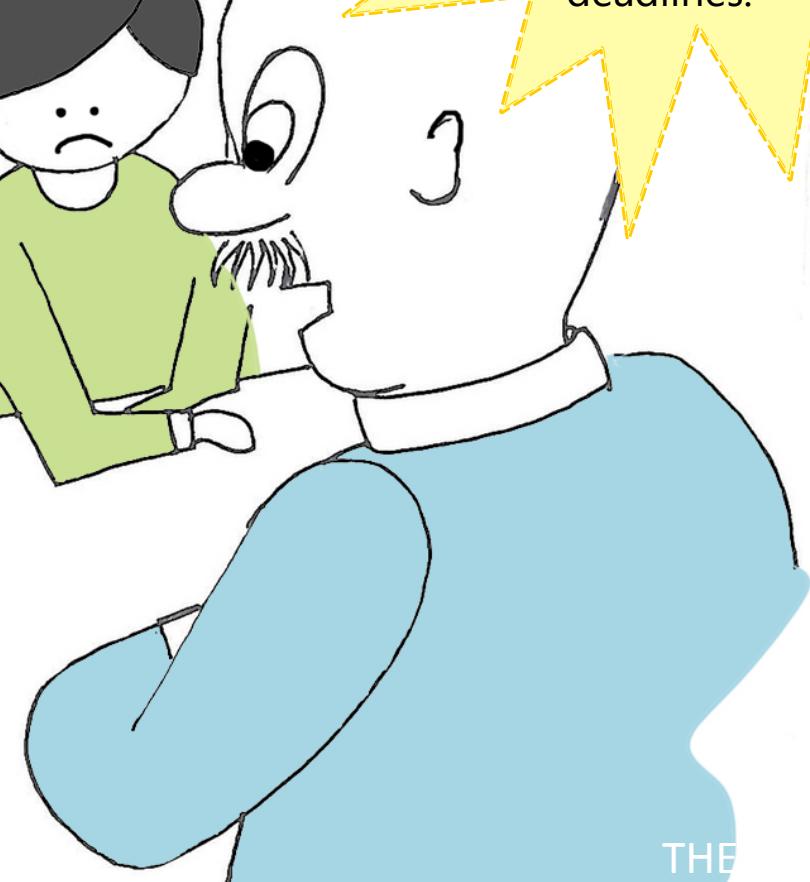


The movie has
already
started... I hate
to miss the
starting.

SORRY SORRY SORRY
SORRY SORRY
SORRYYYYYYY!!



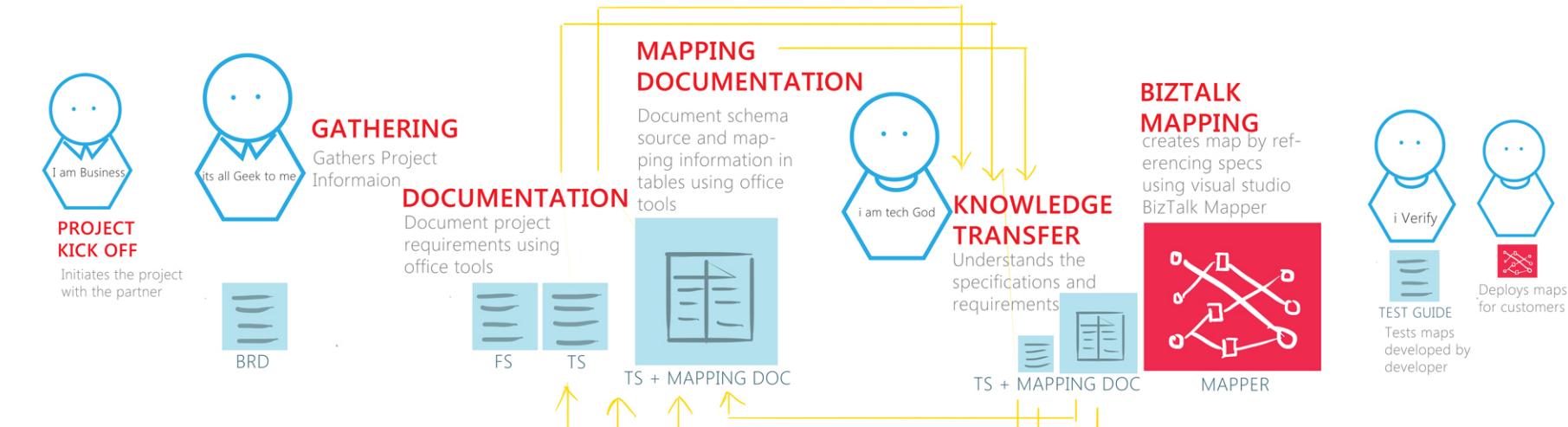
We have again
missed the
deadlines.



THE

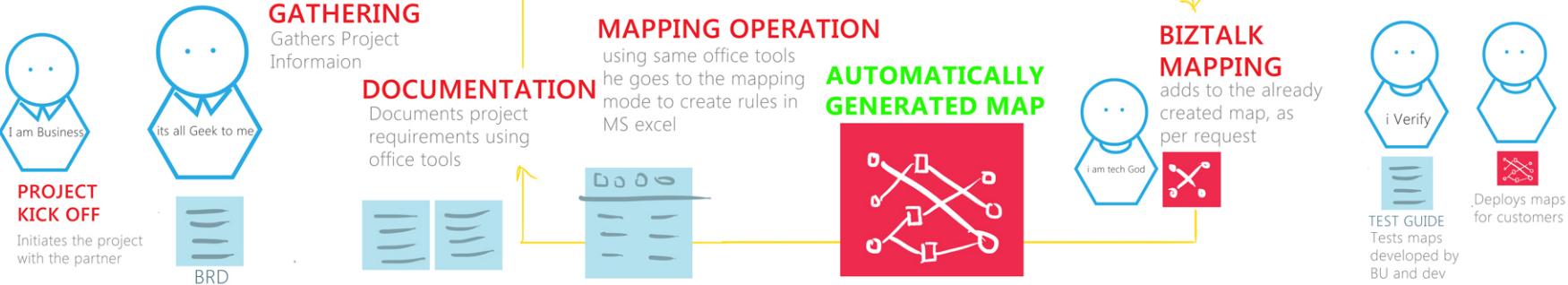
deliverables

1. Task Flow
2. Application

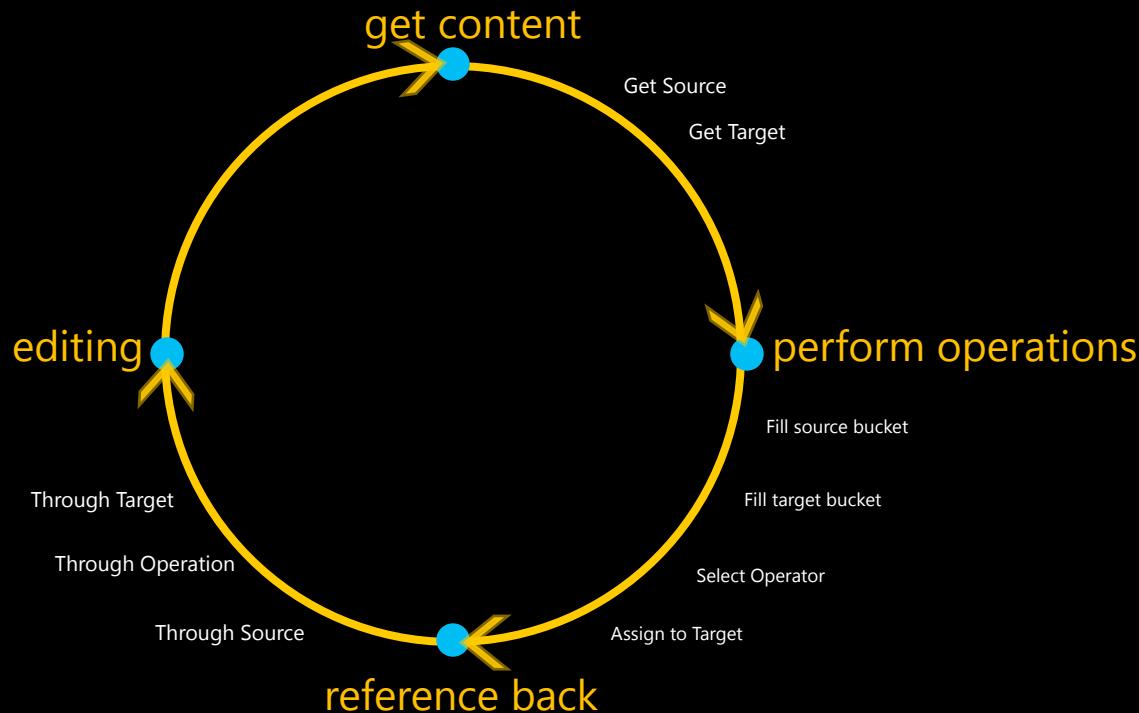


CURRENT TASK FLOW

PROPOSED TASK FLOW



Application User Interface Model



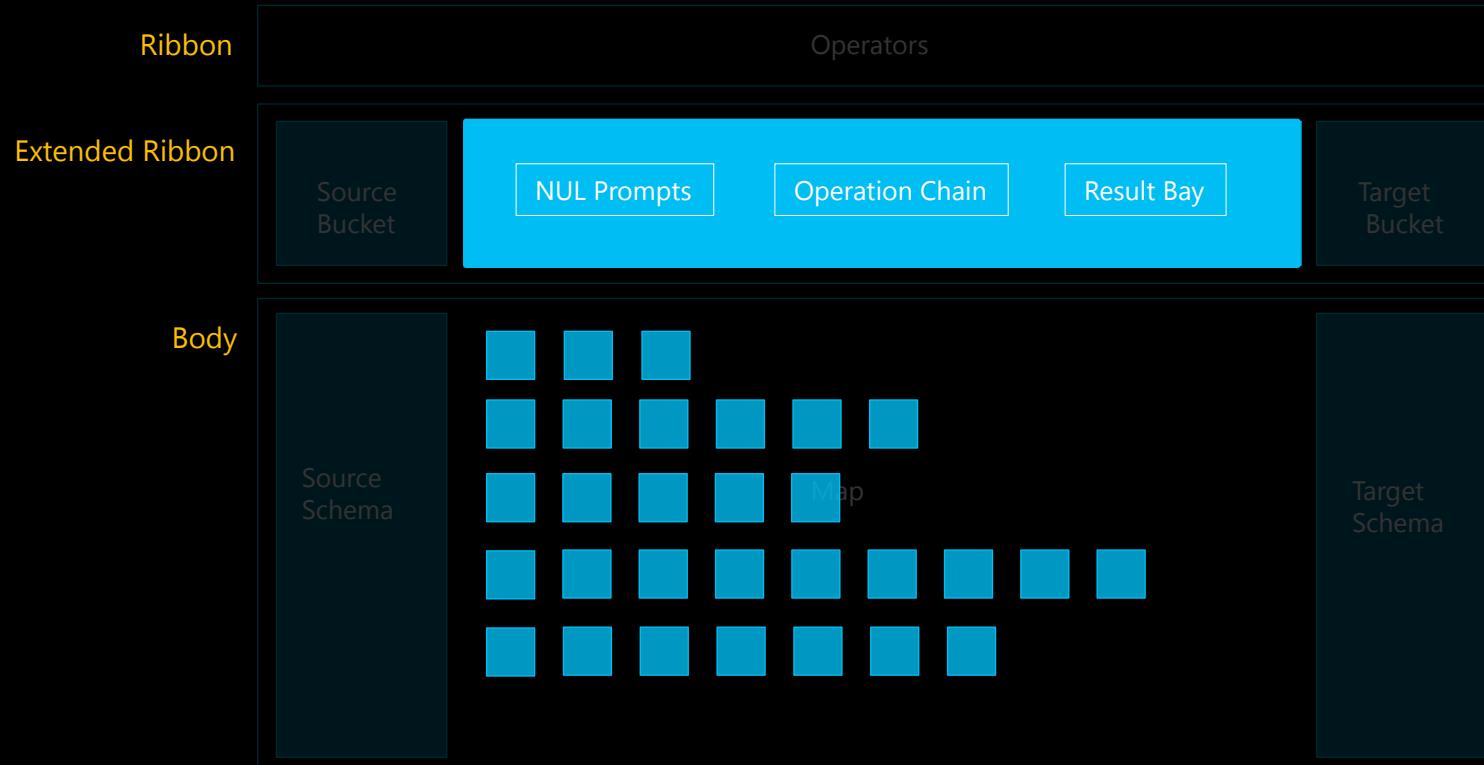
interface design

1. Layout
2. Commands
3. Elements
4. Actions
5. Theme
6. Icons
7. Transitions

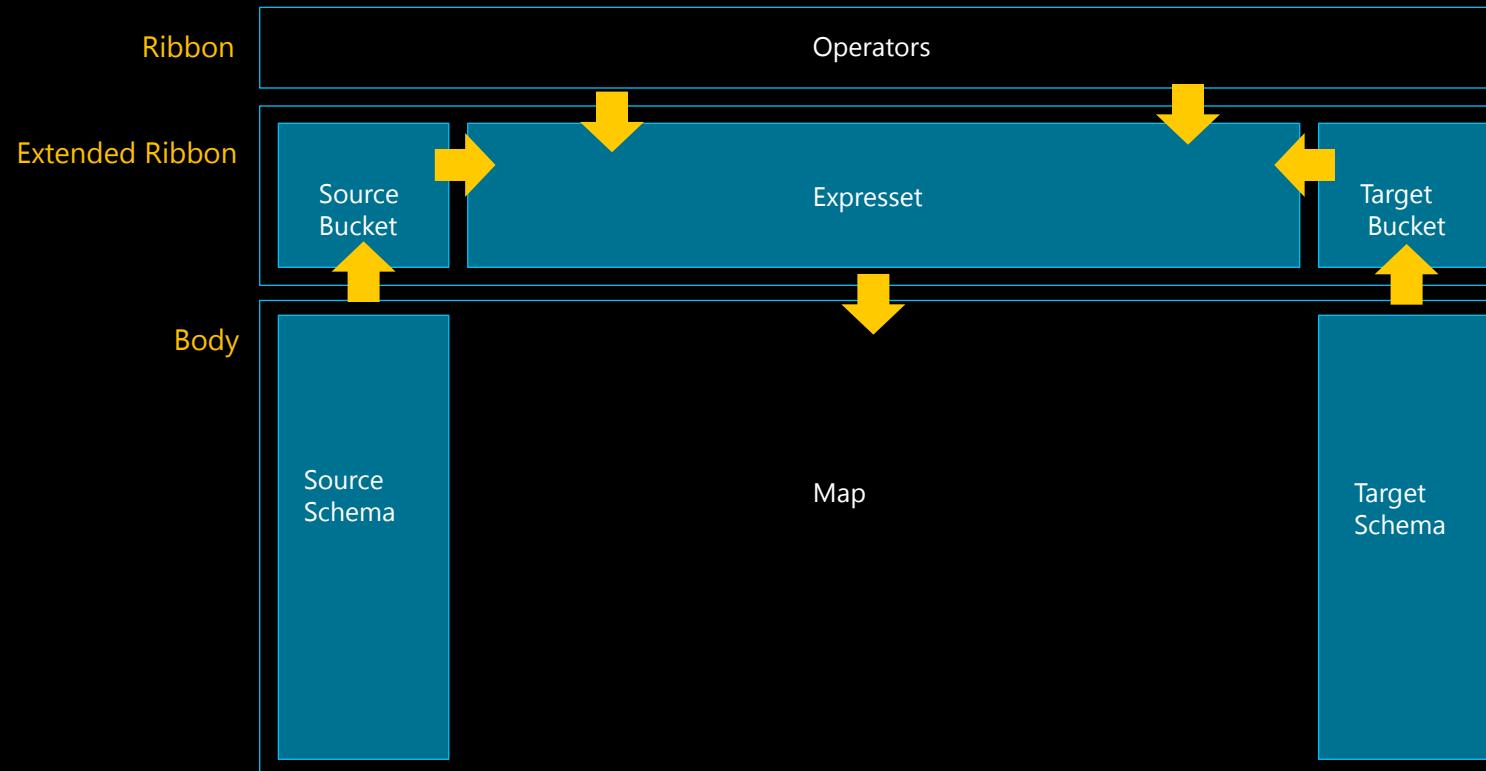
interface skeleton



interface skeleton



interface skeleton



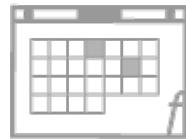
icons



a



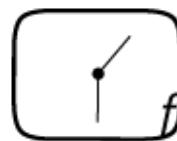
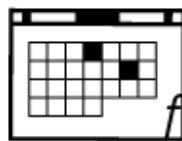
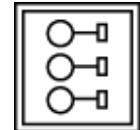
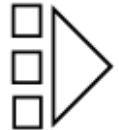
?



123

icons

Default view



When Selected



highlighting

transitions



Blend Prototype

1. Operation Application for testing
2. Feature Flow

usability evaluation : stage II



7 users goal: to test the operation performance ability of the user using new interface

Success fullness
Penalty for Error
Adaptability
Time taken



task sheet

maplator: mapping tool for business users



This is an evaluation exercise as a part of my project "To empower business users to perform mapping operations". Through this evaluation process I am evaluating my design for its successfullness.

Name : _____
Experience : _____
Business Role : _____

Perform the following tasks using Maplator:

Task 1: Import Source Schema.

Task 2: Import Target Schema.

Task 3: Directly map 'HeaderText' to SupplierInfo

Task 4: Concatenate 'FirstName' and 'LastName' to build "FirstNameLastName@microsoft.com" and assign it to emailAccount

Task 5: Perform following operation

A approvalStatus depends on value of ApprovalCode:
IF 'ApprovalCode' is 'A' then 'ACCEPTED'
IF 'ApprovalCode' is 'R' then 'REJECTED'

Task 6: Perform following operation

IF CountryCode = 'INR' then append 'Rs' to 'TotalAmount' and send output to 'TotalItemPrice'
IF CountryCode = 'US' then append '\$' to 'TotalAmount' and send output to 'TotalItemPrice'

Task 7: Check the incoming value to 'emailAccount'. It should be "LastNameFirstName@microsoft.com". If not, correct it.

Feedback:

It will be nice to know what you think about Maplator. _____

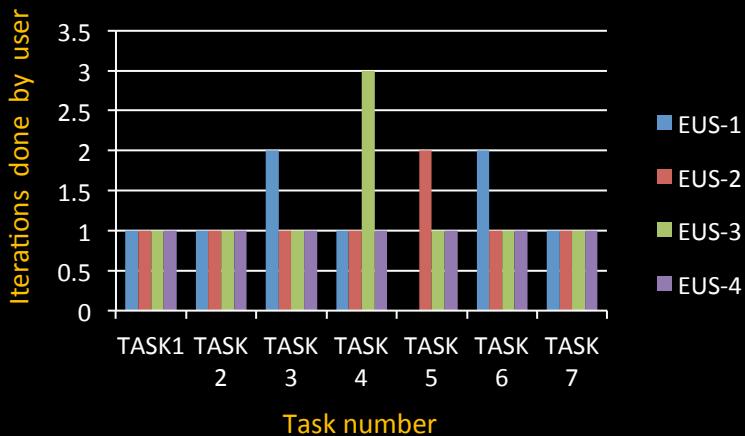
Thank You for participating in my project!

results

1. Successful-ness : Users could perform the complete set of tasks.
2. Penalty for Error
3. Time : Average = 10minutes,10 seconds

| Time Taken | TASK-1 | TASK-2 | TASK-3 | TASK-4 | TASK-5 | TASK-6 | TASK-7 | |
|------------|--------|--------|--------|--------|--------|--------|--------|---|
| EUS-1 | 7:40 | 1 | 1 | 2 | 1 | 2 | 2 | 1 |
| EUS-2 | 10:50 | 1 | 1 | 1 | 1 | 2 | 1 | 1 |
| EUS-3 | 11:20 | 1 | 1 | 1 | 3 | 1 | 1 | 1 |
| EUS-4 | 10:50 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |

4. Adaptability = observation study
5. Richness of Interaction Space



Some user output screens

File home insert pagelayout formulas data review view maplator

SOURCE BUCKET FirstName LastName @microsoft.com

TARGET BUCKET FirstName LastName@

concatenates assign val (o1) assign val (o2) assign val (o3) assign val (o4)

SOURCE SCHEMA

- UnitOfMeasure
- CurrencyCode
- PersonName
- Prefix
- FirstName
- LastName
- Address
- State
- Country
- CountyCode
- Receipt
- HeaderText
- Issuer
- Recipient
- TransactionNumber
- DateTime
- TotalAmount
- PaymentCard
- CardholderName
- CustomerIdentification
- PersonalID
- ApprovalCode
- Date-Time
- TotalAmount
- TransactionReference
- TransactionID
- RetailReference

TARGET SCHEMA

- BillNumber
- ModeofPayment
- SubAccount
- Name
- Address
- PostCode
- Item
- ItemCode
- ItemPrice
- TotalItemPrice
- Discount
- DiscountAmount
- Tagline
- Receipt
- HeaderText
- Issuer
- Recipient
- TransactionNumber
- DateTime
- TotalAmount
- PaymentCard
- CardholderName
- CustomerIdentification
- PersonalID
- ApprovalCode
- Date-Time
- TotalAmount
- TransactionReference
- TransactionID
- RetailReference

File home insert pagelayout formulas data review view maplator

SOURCE BUCKET FirstName LastName

TARGET BUCKET Address

concatenates assign val (o1) assign val (o2)

SOURCE SCHEMA

- UnitOfMeasure
- CurrencyCode
- PersonName
- Prefix
- FirstName
- LastName
- Address
- State
- Country
- CountyCode
- Receipt
- HeaderText
- Issuer
- Recipient
- TransactionNumber
- DateTime
- TotalAmount
- PaymentCard
- CardholderName
- CustomerIdentification
- PersonalID
- ApprovalCode
- Date-Time
- TotalAmount
- TransactionReference
- TransactionID
- RetailReference

TARGET SCHEMA

- BillNumber
- ModeofPayment
- SubAccount
- Name
- Address
- PostCode
- Item
- ItemCode
- ItemPrice
- TotalItemPrice
- Discount
- DiscountAmount
- Tagline
- Receipt
- HeaderText
- Issuer
- Recipient
- TransactionNumber
- DateTime
- TotalAmount
- PaymentMode
- PaymentType
- Cardholder
- CustomerIdentification
- PersonalID
- ApprovalStatus
- ShippingAddress
- Name

File home insert pagelayout formulas data review view maplator

SOURCE BUCKET FirstName LastName @microsoft.com

TARGET BUCKET FirstName LastName@

concat (o1) assign (o2)

SOURCE SCHEMA

- UnitOfMeasure
- CurrencyCode
- PersonName
- Prefix
- FirstName
- LastName
- Address
- State
- Country
- CountyCode
- Receipt
- HeaderText
- Issuer
- Recipient
- TransactionNumber
- DateTime
- TotalAmount
- PaymentCard
- CardholderName
- CustomerIdentification
- PersonalID
- ApprovalCode
- Date-Time
- TotalAmount
- TransactionReference
- TransactionID
- RetailReference

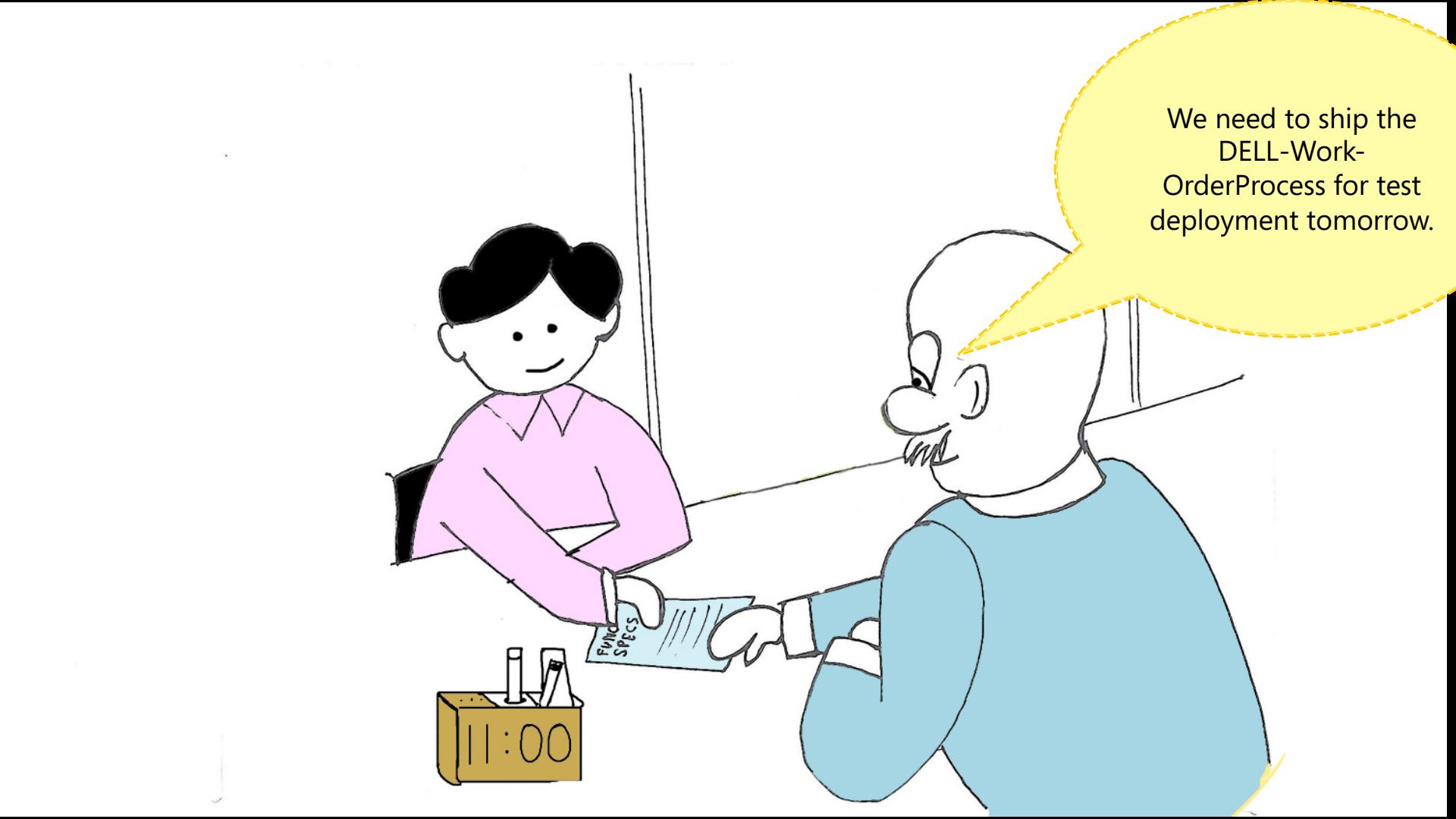
TARGET SCHEMA

- BillNumber
- ModeofPayment
- SubAccount
- Name
- Address
- PostCode
- Item
- ItemCode
- ItemPrice
- TotalItemPrice
- Discount
- DiscountAmount
- Tagline
- Receipt
- HeaderText
- Issuer
- Recipient
- DateTime
- TotalAmount
- PaymentMode
- PaymentType
- Cardholder
- CustomerIdentification
- PersonalID
- ApprovalStatus
- ShippingAddress
- Name

refined design

1. Assign operation is an add on to mapping
2. Operation snippets
3. It might get complicated with VERY large source and target schemas
4. usability issues (double click)
5. Affordances and interactions

Scenario - After

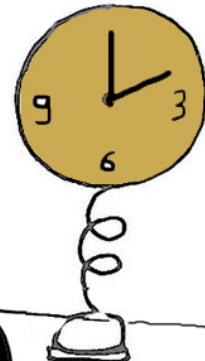


We need to ship the
DELL-Work-
OrderProcess for test
deployment tomorrow.



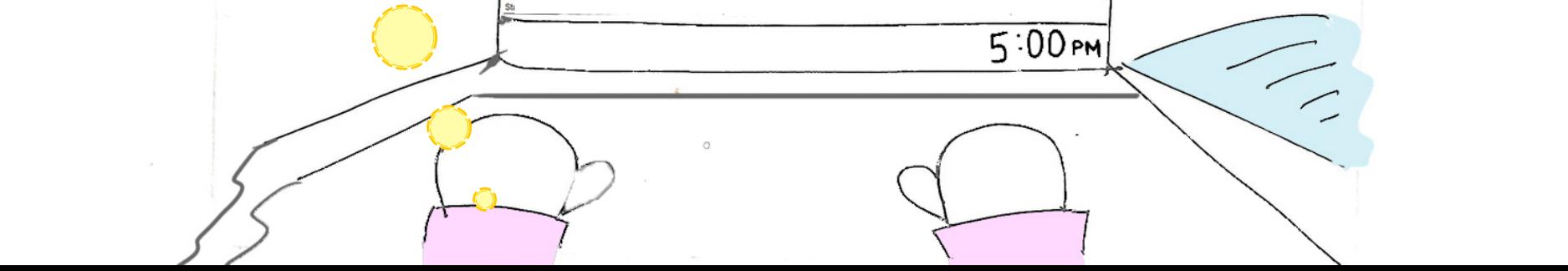
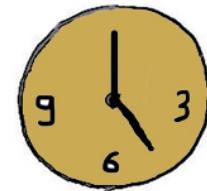
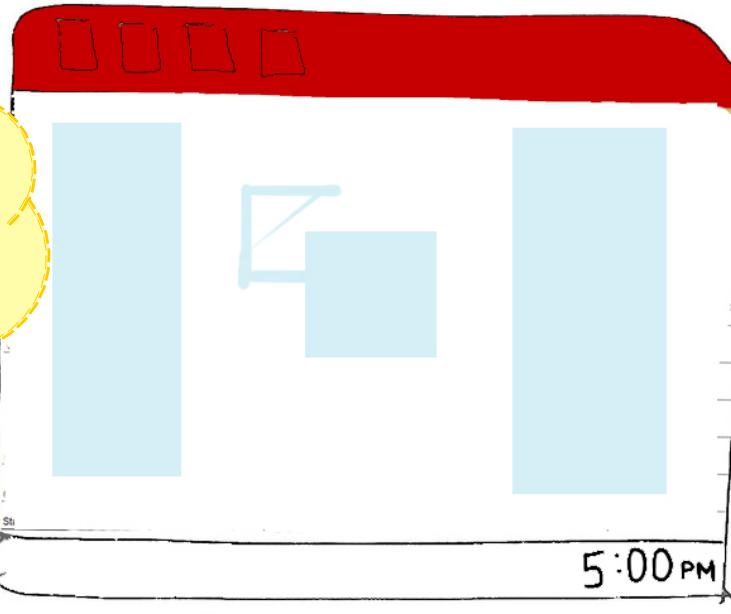
It's already 2'o clock...

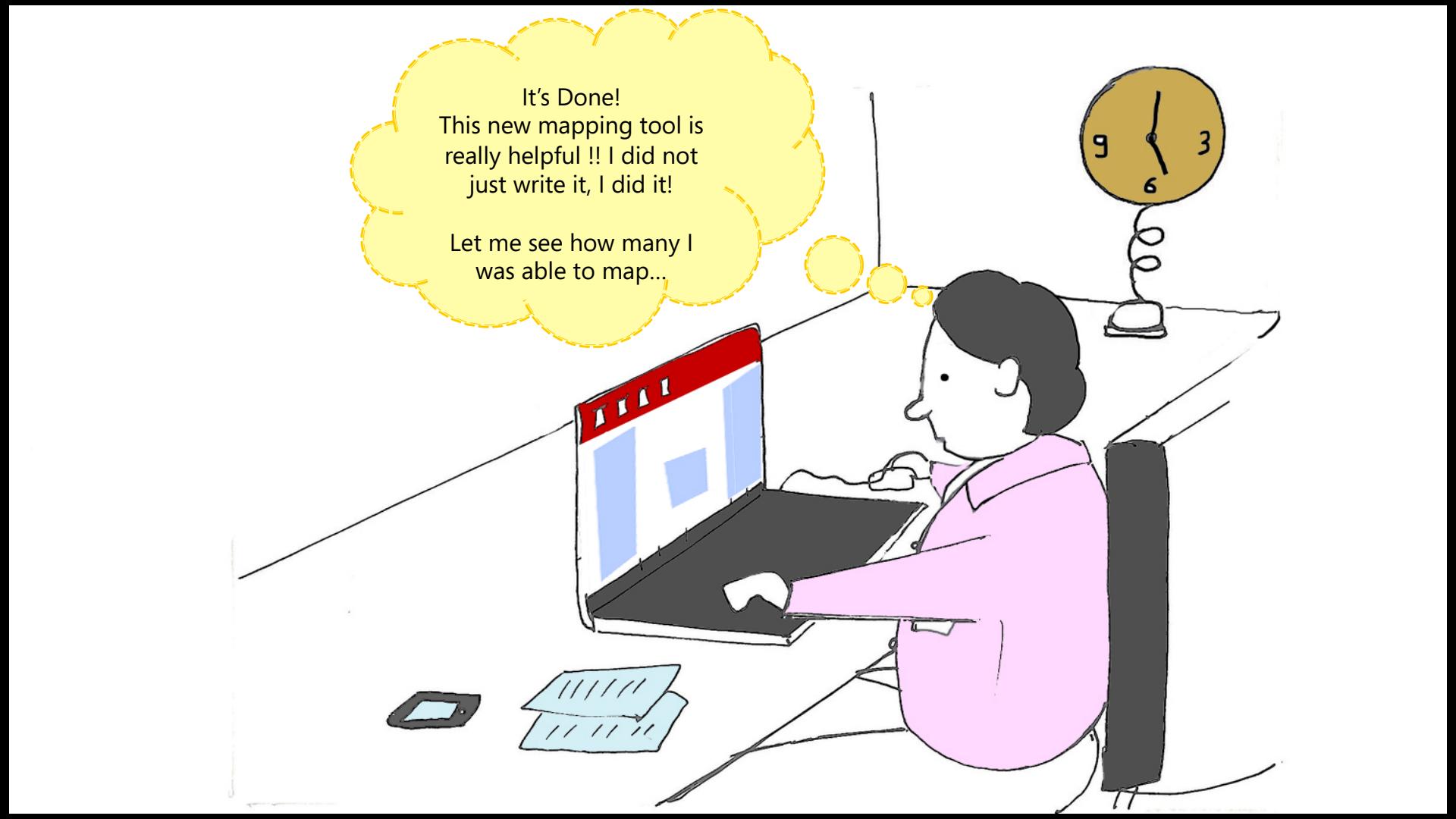
Let me start doing my
work.



hmmmm, cool !

this new tool also
shows me the
consequence of the
operation I selected...!





It's Done!

This new mapping tool is
really helpful !! I did not
just write it, I did it!

Let me see how many I
was able to map...



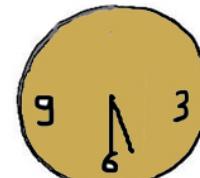
WOAH !!! I am impressed

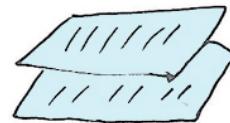
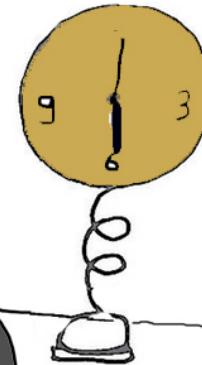
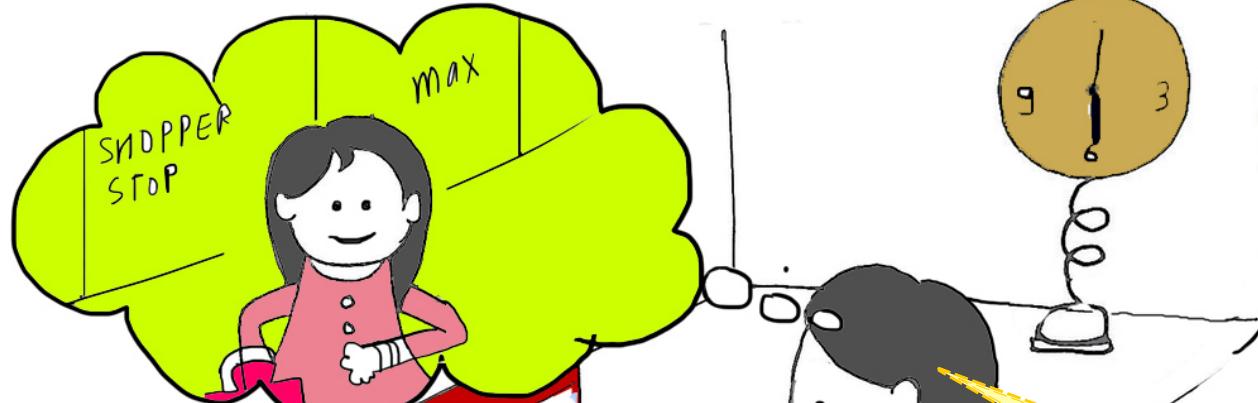
Congratulations!

70 % mapping Complete
30 operations assigned to Rakesh.

3 assignment comments incomplete

5:30 PM



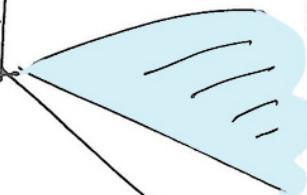
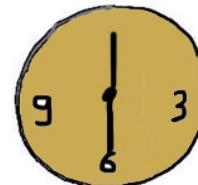


Hi Rakesh,

Can you please complete 30 operations for Dell Out-bound map. You can access the details through your TFT.

Sanket

6:00 PM





All my bags are
packed I am ready
to go....

lalalalalala...

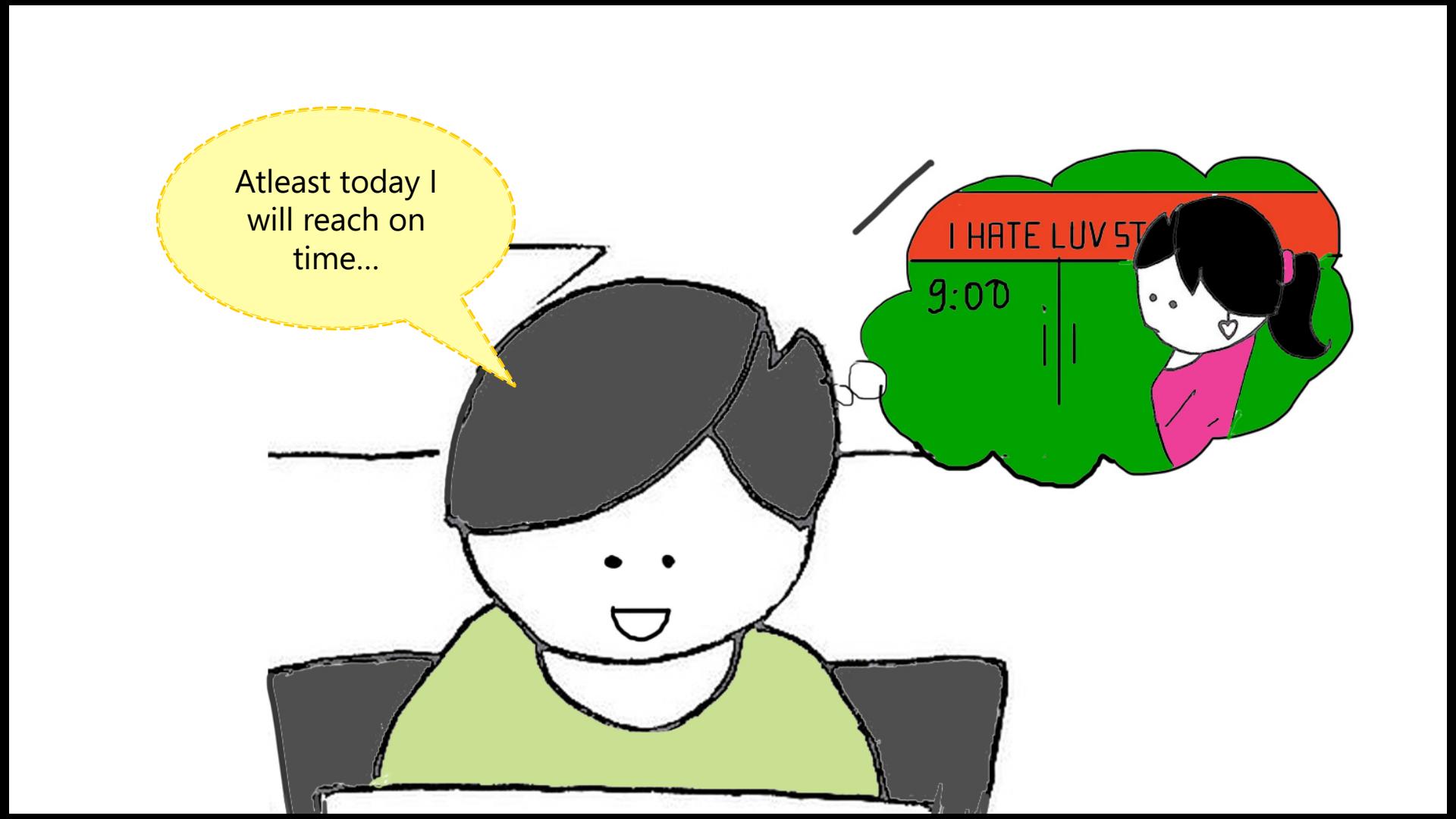




Oh wow! 70 %
mapping is already
complete... I have to do
only 30% !!

"ye to mere bae haath
ka khel hai !!"

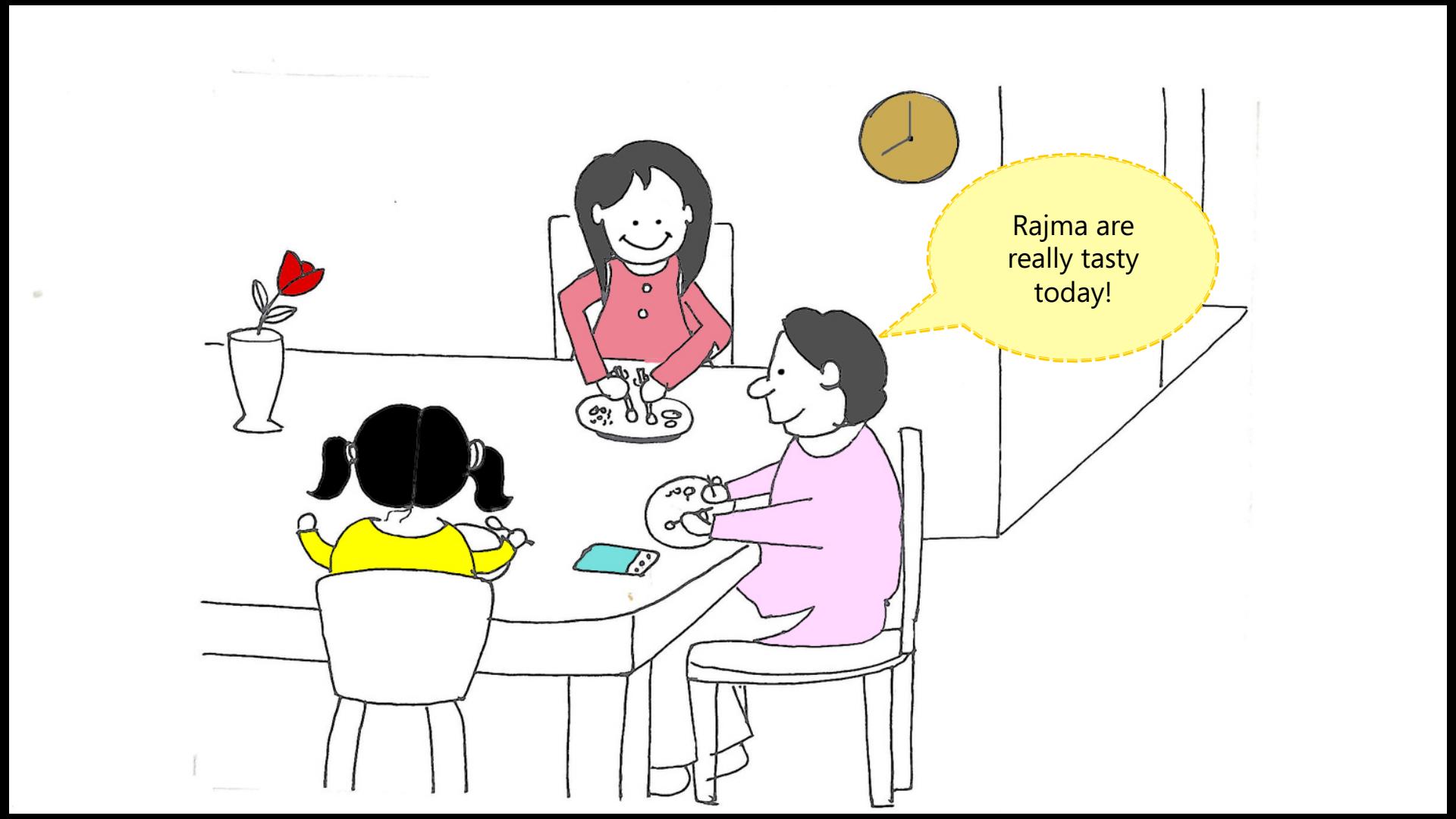




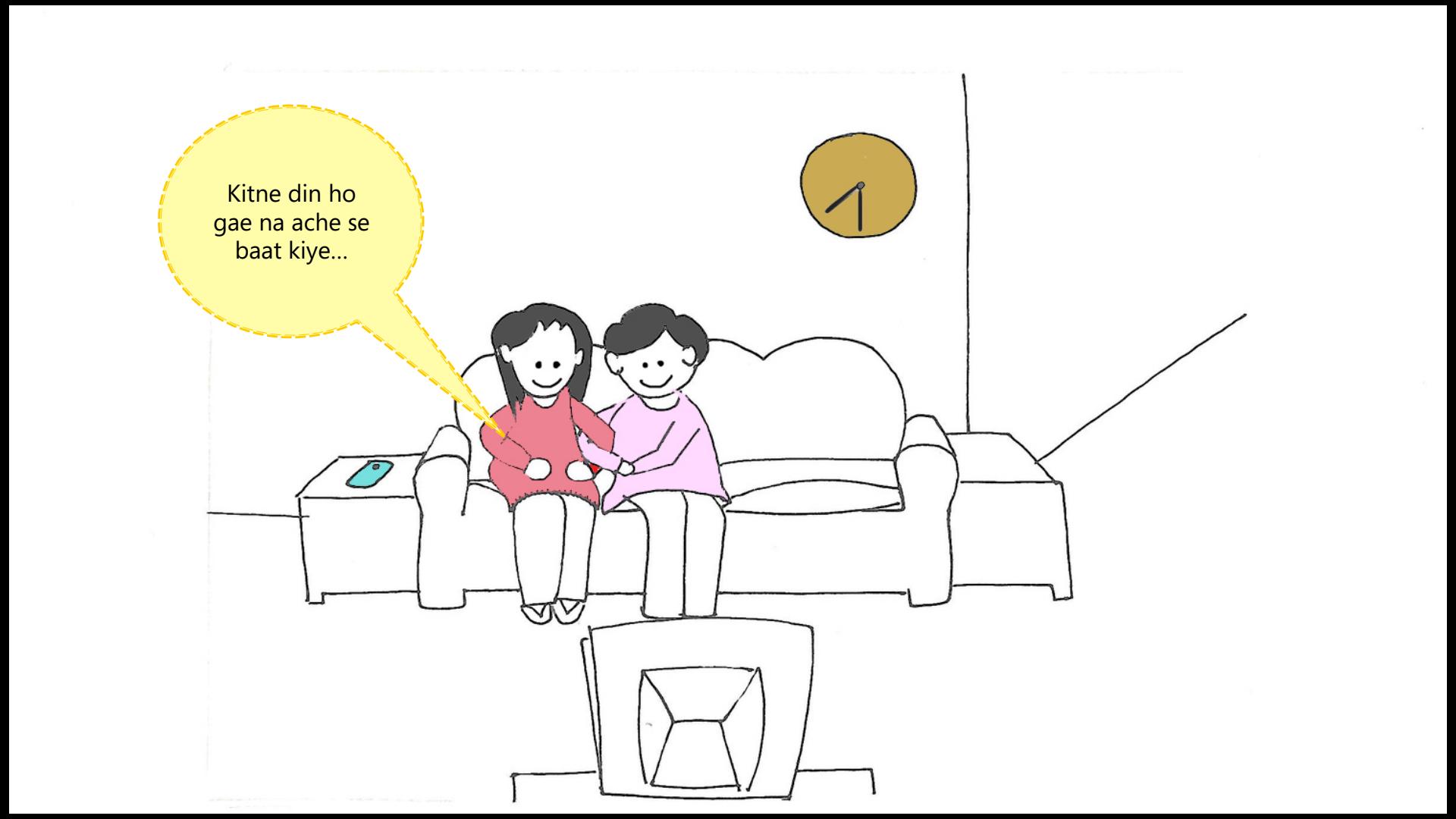
Atleast today I
will reach on
time...

I HATE LUV ST

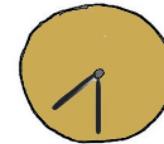
9:00

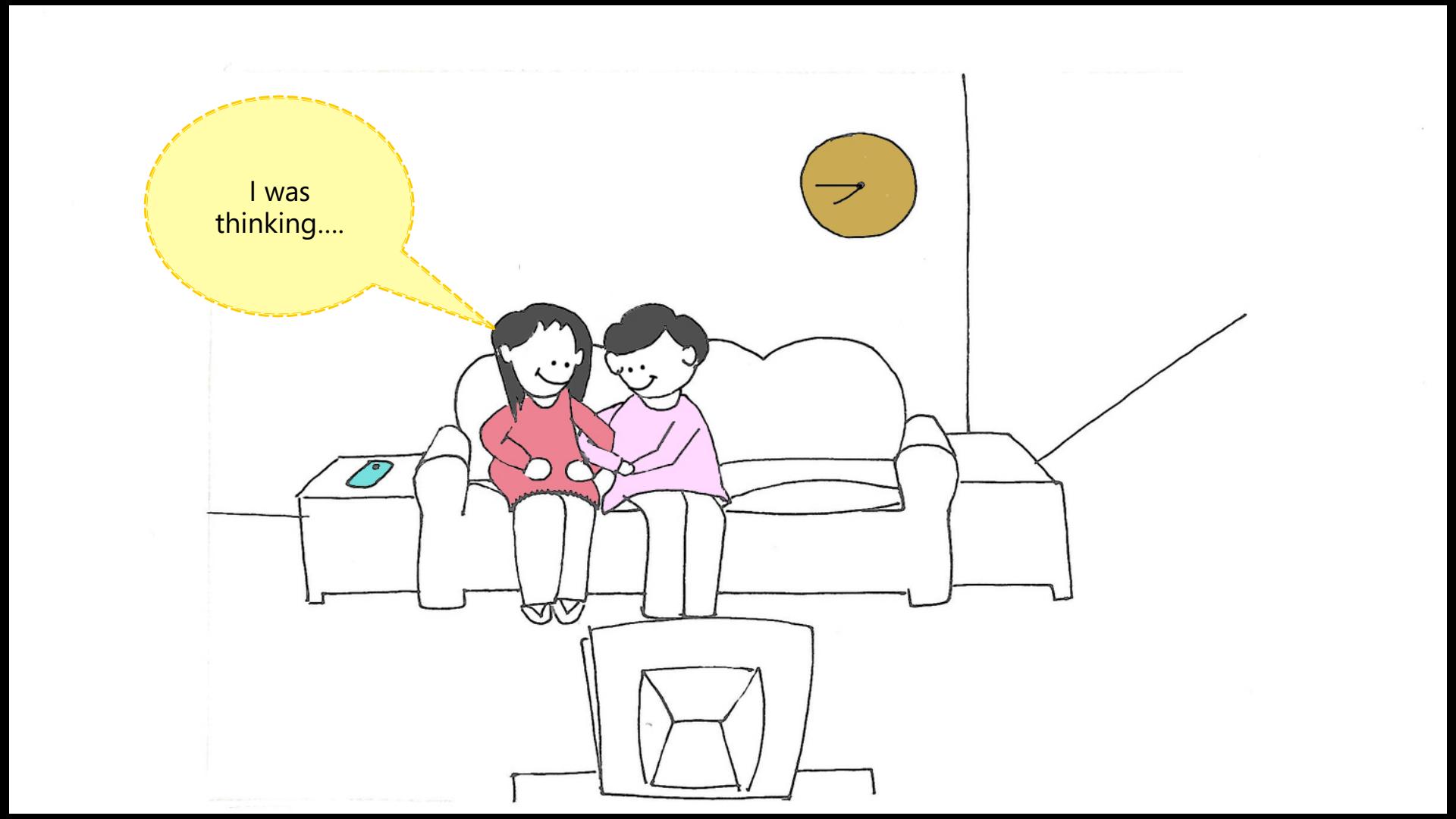


Rajma are
really tasty
today!

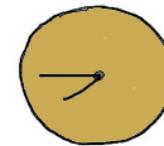


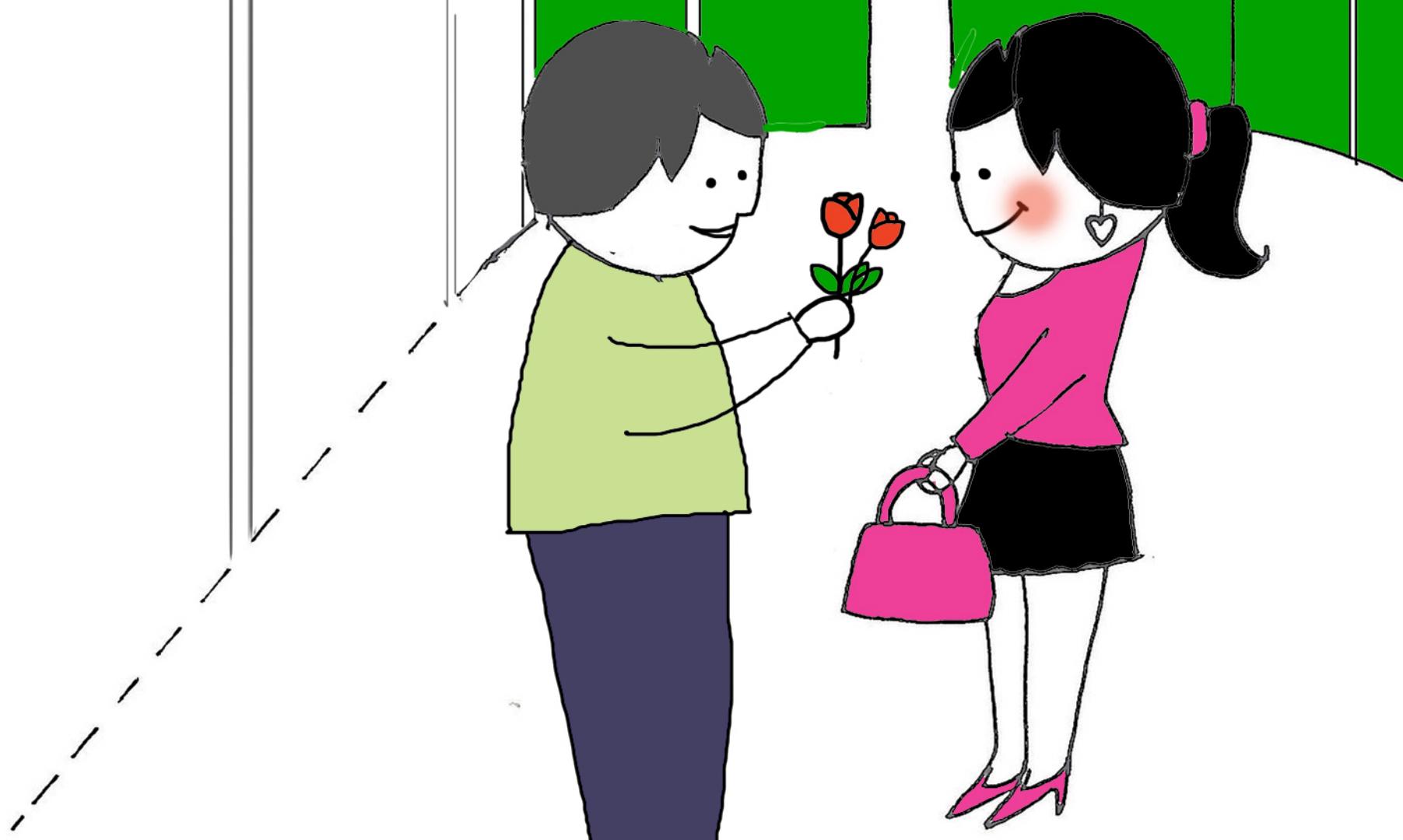
Kitne din ho
gae na ache se
baat kiy...

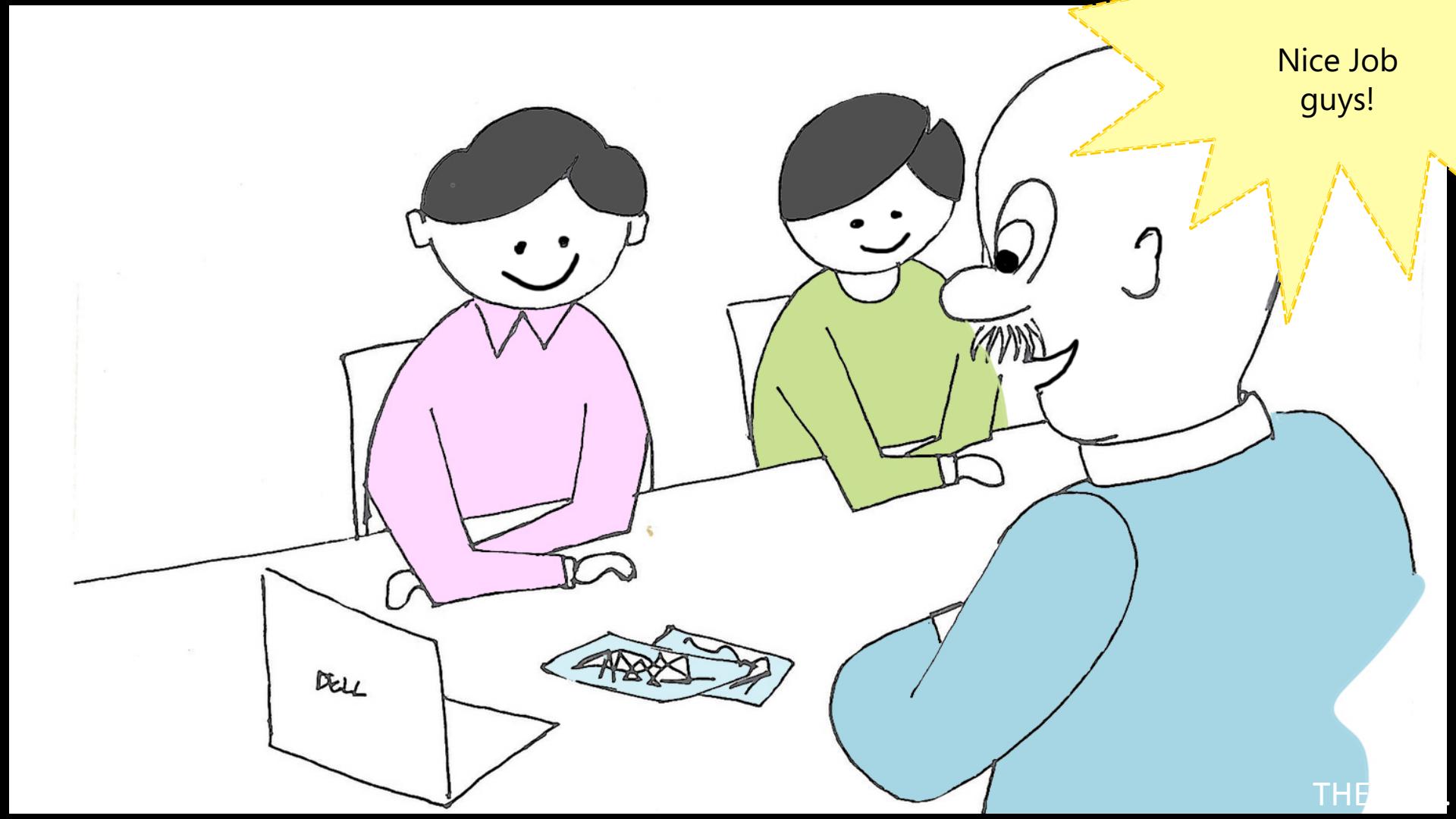




I was
thinking....







Nice Job
guys!

THE

conclusion

- The new proposed task flow will help reduce a lot of redundancy in the project work Flow.
- The proposed system can empower business users to contribute in the process of mapping.

Next steps:

- Hierarchical structures
- Affordances
- Mapping status
- Tagging

thank you

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