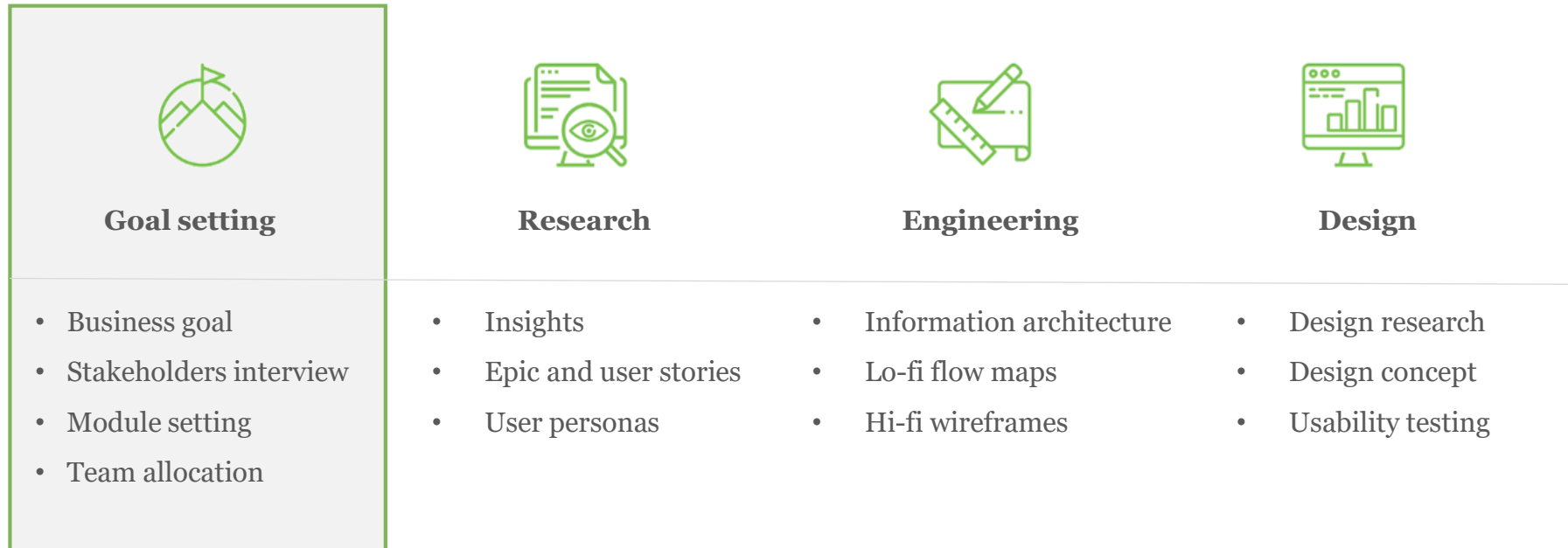


# eWatch DSM

Deviation Settlement Mechanism



# SAMAST - Scheduling, Metering, Accounting and Settlement of Transactions in Electricity



## Program Vision

Be a dependable solution provider for system operators and its participants to manage their business process efficiently and economically, by delivering them a reliable, scalable, secure, and easy to use integrated solution to make them responsible and proactive in maintaining grid discipline.

## Program Goals

Deliver as per the expected quality and scope, a reliable, scalable, secure, easy to diagnose, and intuitive to use, solution for robust data acquisition, scheduling, dispute free billing & settlement, energy accounting with data validation, which will enable system operators and its participants in maintaining grid discipline and its reliability.

### Baseline Start Date

24/07/2018 12:00:00 AM IST

### Baseline Finish Date

15/03/2021 12:00:00 AM IST

eWatch **DSM**, this program will cater the following major goals:

1. Meter data capture at 5 min SIP;
2. SLDC process automation for meter data collection;
3. Billing and Settlement for Genco segment only;
4. Energy Accounting and VEE for SLDC;
5. New gateway as DCU;
6. Firmware of DCU;
7. Meter specific changes to fulfil the data capturing at 5 min interval.

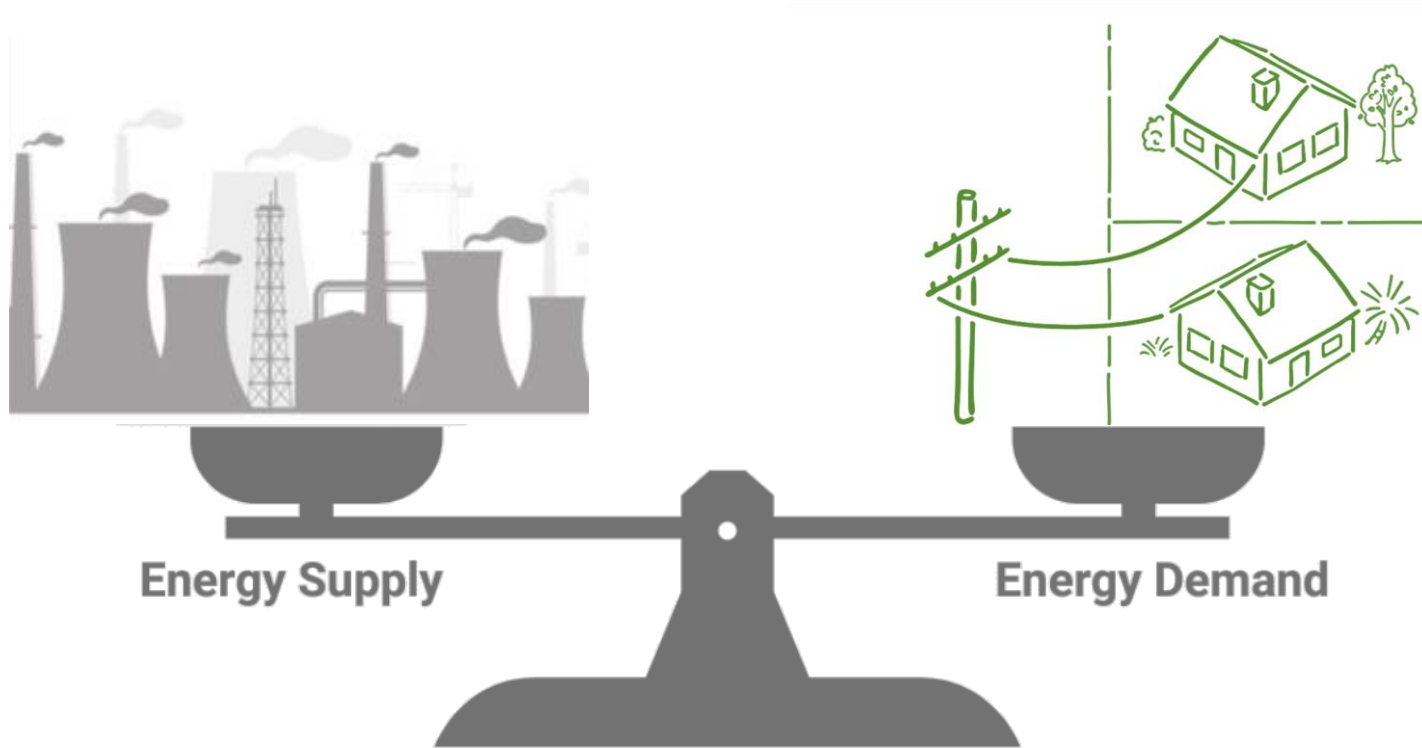
Program is divided into 2 phases:

Phase 1 - delivery of DAS / VEE / EA module along with modification in the Clem / mCubed / KMS / Meters hardware.

Phase 2 - delivery of Scheduling and Billing & Settlement module for Genco segment only.

# DSM

## Deviation Settlement Mechanism



SOLAR



WIND



GENERATOR

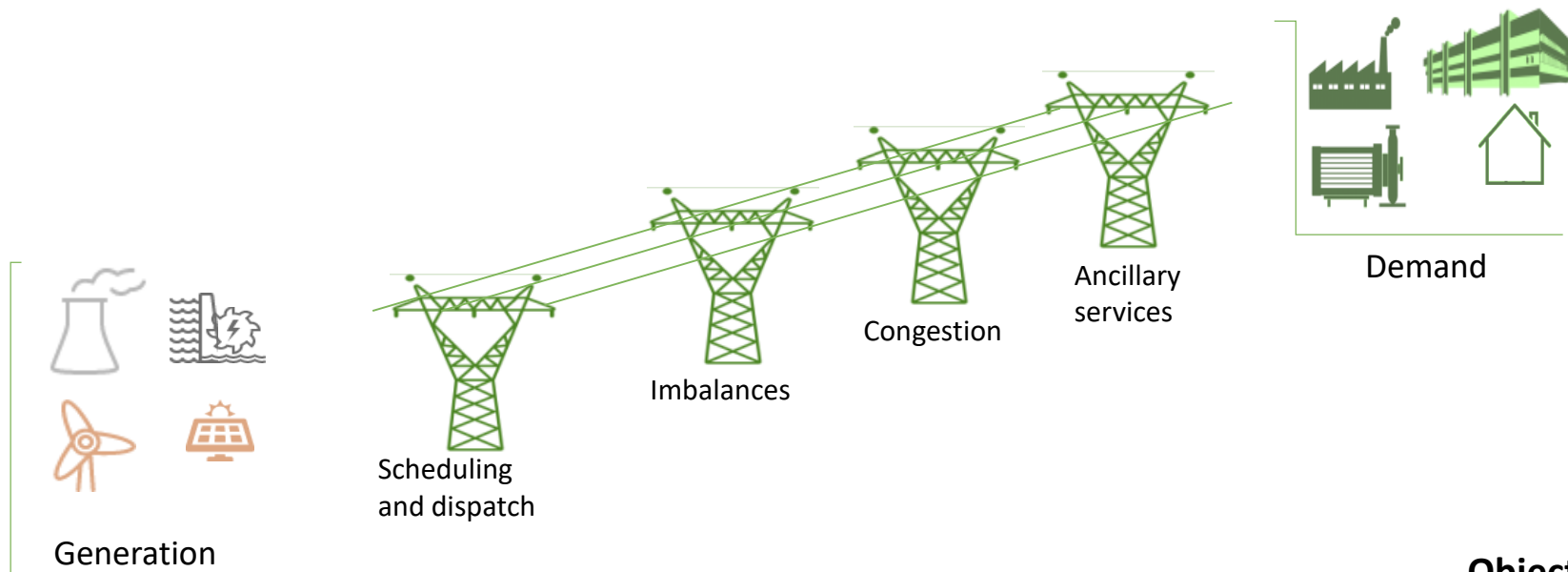


HYDRO



BATTERY

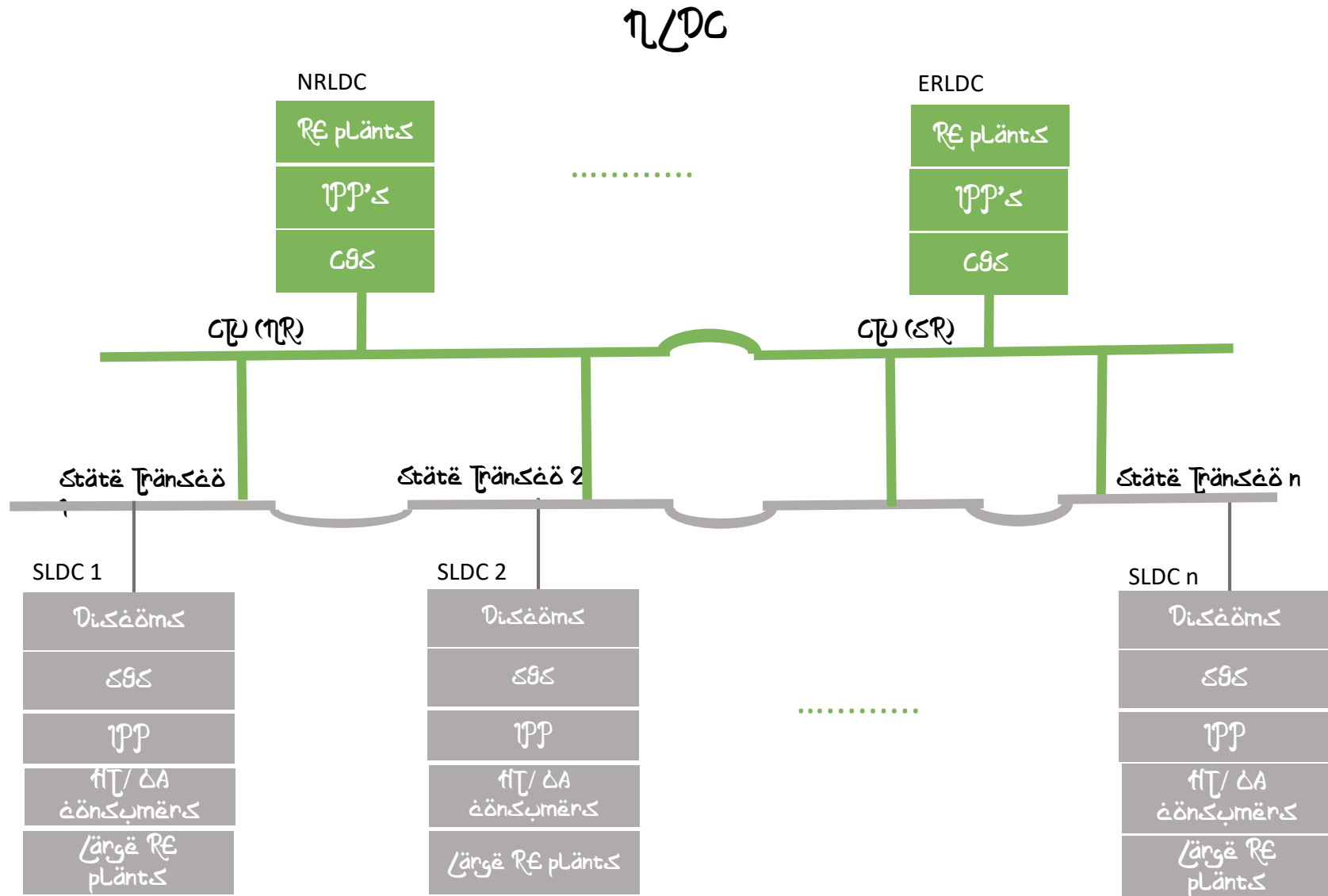
# Pillars of electricity market design



## Objectives:

- ✓ Reliable and secure system
- ✓ Low cost of power
- ✓ Green power
- ✓ Balancing grid in real time
- ✓ Congestion free
- ✓ Dispute free billing and settlement
- ✓ Fast response to grid contingency
- ✓ Low losses

# Wholesale grid participants



CGS - central generating station; SGS - state generating station; IPP - independent power producer; OA open access

# eWatch DSM - Modules

Phase-1



ELECTRIC METER

shutterstock.com • 1197056479

## Grid Meter

- ✓ Configurable to 15/5min.
- ✓ SAMAST compliant



## DCU/Gateway

- ✓ Data storage
- ✓ LAN/WAN communication



## AMR/DAS

- ✓ Reliable and accurate
- ✓ 100% data commitment



## Meter data processing

- ✓ Data validation
- ✓ Data estimation, editing

Phase-2



## Web scheduling

- ✓ Access to all participants
- ✓ Real time updation



## Loss analysis (Energy Audit)

- ✓ Loss computation
- ✓ Substation/bus-bar wise



## Alerts

- ✓ Pop-up, Banner, dashboard
- ✓ Over SMS and e-mail



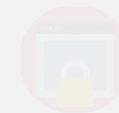
## Field force management (FFS)

- ✓ Miss data reading
- ✓ Push data to back office



## Incident management (JSD)

- ✓ Ticketing system
- ✓ CERC/SERC complaint

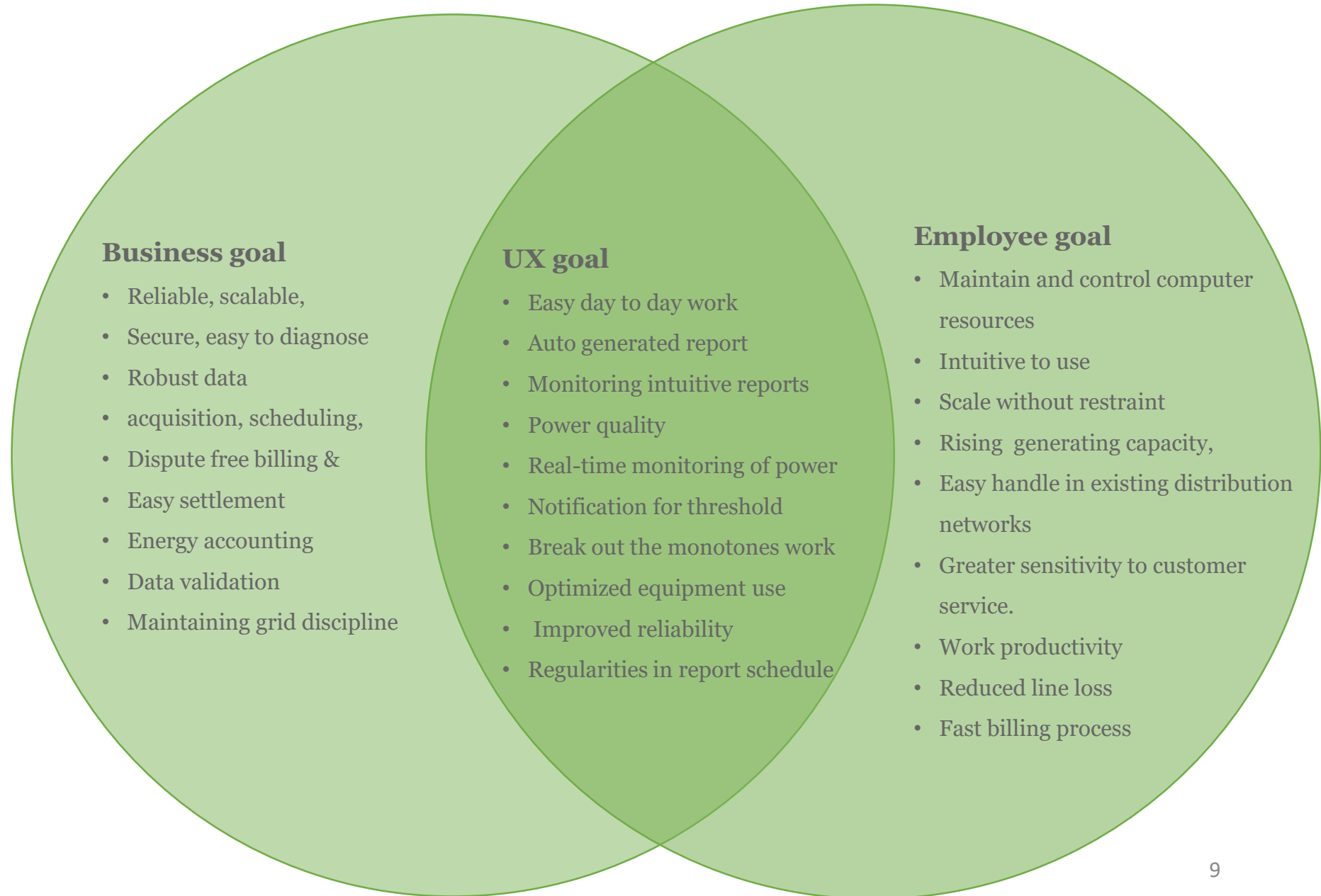


## Security

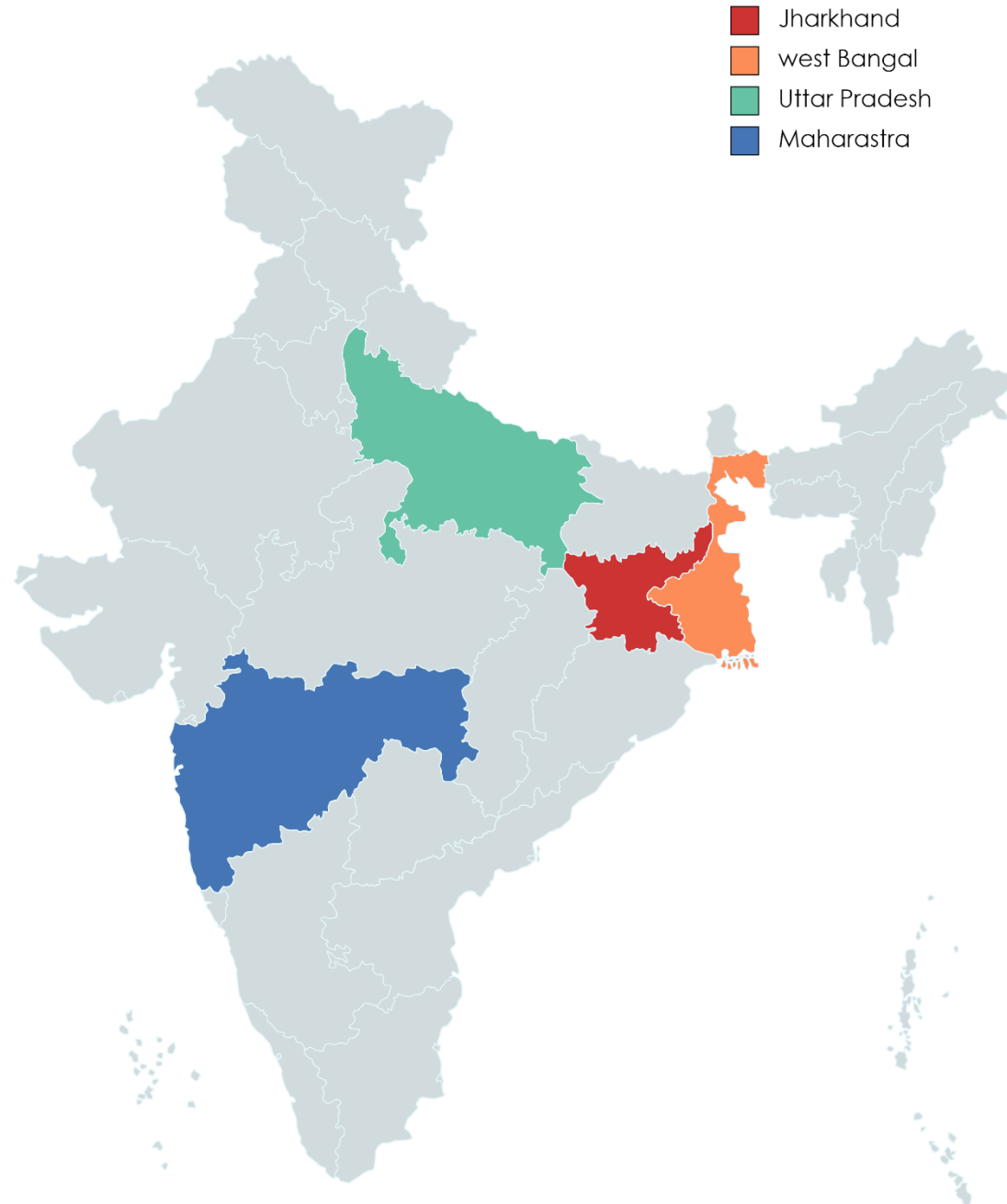
- ✓ Data encryption
- ✓ Web application security



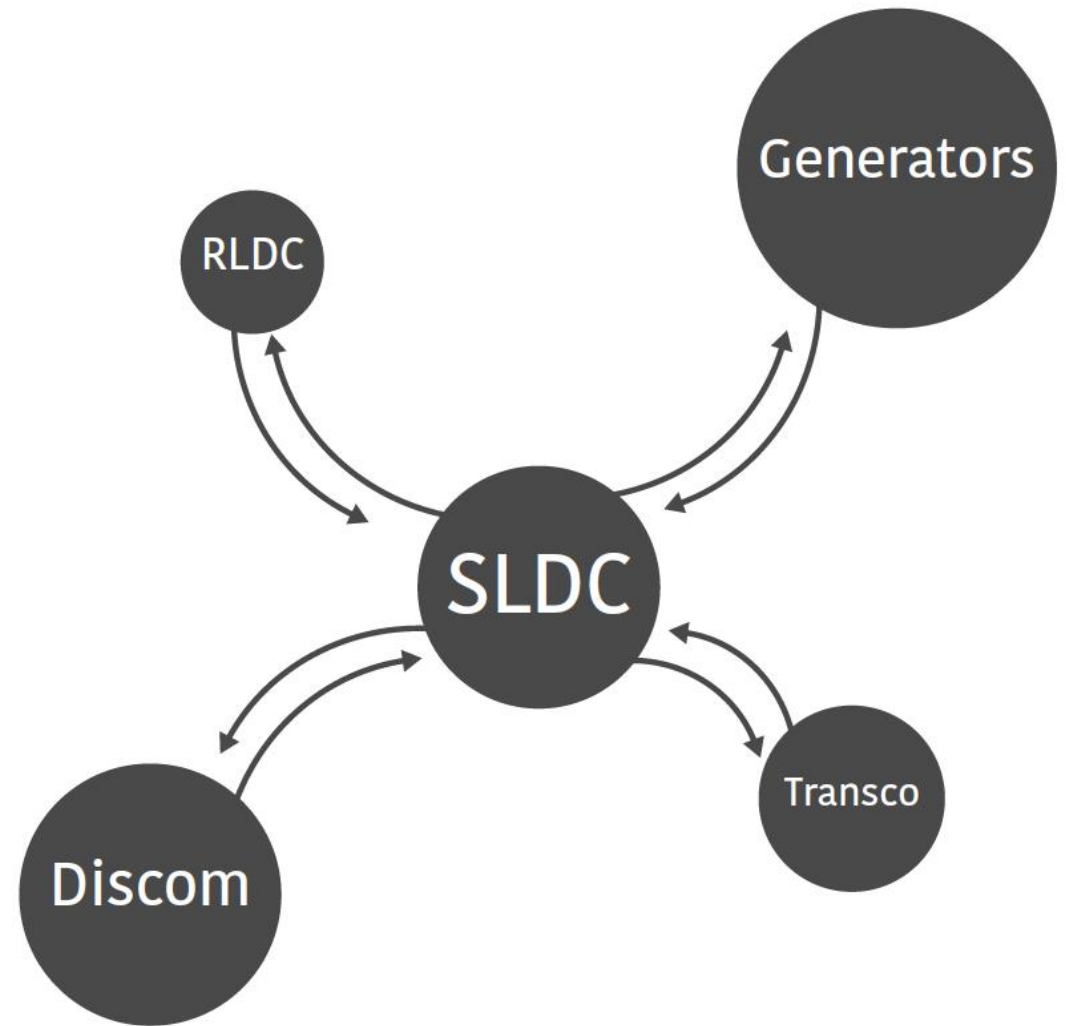
The project aims to implement a robust, scalable and transparent framework of scheduling, metering, accounting and settlement of energy transactions at intra-state as well as interstate level in India.



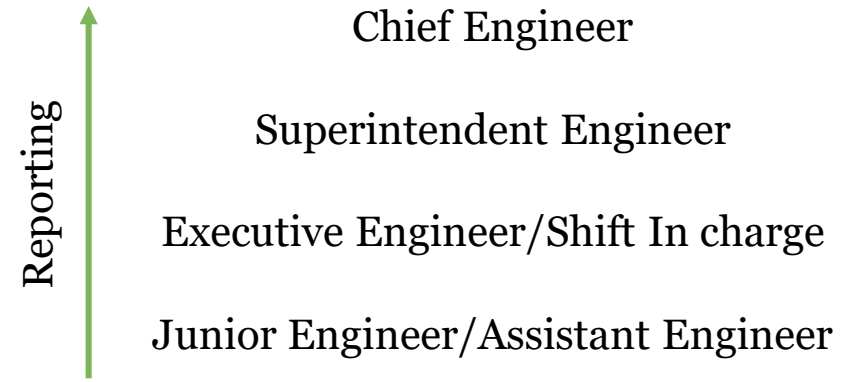
User research : Customer visit



SLDC ( State Load Dispatch center)



# Organizational Structure



# State Load Dispatch Centre

## Functions of SLDC

**Scheduling** and dispatch of electricity within a State

**Monitor** grid operation

Energy **accounting**

Commercial **settlement** of energy

Regulating **frequency** - 50 Hz

## State Load Dispatch Centre

Data validation

Data acquisition

Open access approval

Scheduling

Energy accounting

Billing and settlement

User registration & SLDC charges

# Team allocation

- RA/ UX team (2 persons ) : User research, IA, Wireframe /prototype
- RA/ UX team (1 persons ) : RA with UX on page level detailing and validation by Dev/PV team

## Task list

Team Lead	Vinay Choudhary / Atul Koleshwar /Pratap Aditya	
Status Summary		Common Guidelines
Status	Count	This sheet to be used for task level planning & updation by Program teams & To be maintained by Team Leads.
Yet to start	6	This task planning sheet must be in sync with Milestone level schedule maintained in Agile.
In process	3	Efforts estimation - 8 working hrs./ day. Efforts calculation (in Man months) 20 working days/ month. Duration calculation (in Weeks) - based on 4 weeks/ month
Complete	52	This sheet to be added as an attachment under at program root. Naming convention of this XL file should be " Task sheet_Program Number_Function.xlsx"
Hold	3	
Total	64	Task level planning should include design block level planning in products, & module level planning in softwares.
%age comp.	81%	Tls to enter names of team members by replacing the "Team member n" mentioned in work sheet" Team Members" under coloumn "A". Enter TL name in cell B8.



### Goal setting

- Business goal
- Stakeholders interview
- Module setting
- Team allocation



### Research

- Insights
- Epic and user stories
- User personas



### Engineering

- Information architecture
- Lo-fi flow maps
- Hi-fi wireframes



### Design

- Design research
- Design concept
- Usability testing



### **Insight 1: Use of manual methods within the system and processes**

- Manual meter reading
- Manual data validation process
- Scheduling (Manual/Excel)

“There’s this junior engineer sitting in control room, He calls each and every substation in charge. Takes the reading over call and note it down in this register.”



### **Insight 2: Irregularities in schedule**

- Discoms are not sending requisition schedule (UP & Jharkhand)
- Genco’s are not sending generation schedule (Jharkhand)

**“Pain hi Pain he.”**





**Insight 3:** Billing and accounting processes are irregular

- No subject matter expert in the organisation (Accounts)
- No state pool account (UP & Jharkhand)
- Slow billing process

*“State DSM bill is paid by state discom and there is no role of SLDC”*

*“We don’t even have an accounts person in our organisation”*



**Insight 4:** Billing and accounting processes are irregular

- No subject matter expert in the organisation (Accounts)
- No state pool account (UP & Jharkhand)
- Slow billing process
- “State DSM bill is paid by state discom
- and there is no role of SLDC ”
- “We don’t even have an accounts
- person in our organisation”



**Insight 5:** Participants are not accepting the authority of SLDC

SLDC is considered as a department of Transco whereas as per regulation it's an independent body



**Insight 6:** Data entry major issue

Slow	Inefficient in task processing
Complex	Difficult to master—approximate 2-month learning period for new employees
Clumsy	Causing stress both for the employee and customer
Outdated	Decreasing employee motivation
Insecure at times	Leading to human errors
Overfeaturized	Takes a lot of time to find the necessary function
Fragmented	Causing mishaps in communication within departments and clients

Persona (Role based)

Assistant engineer, scheduling

ASSISTANT ENGINEER, SCHEDULING



Tushar Singh

Rooted | SEC As | Married with 2 year old kid | Owns a TVS Starcity

Basic info

Age: 29

Education: B.E. (Electrical)  
M.E. (Power systems)

Experience: 4 years

Hometown: Rudrapur

Friendly

Practical

Attentive

Organized

Disciplined

Professional

TECHNOLOGY



Schedule management  
Checking Emails  
Monitoring



General use of android  
smart-phone  
Internet browsing  
Tickets  
Social Media

Typical day at work

AM	Shift A	PM	Shift B	AM	Shift C	AM
	<div>Scheduling</div> <div>Receives schedules</div> <ul style="list-style-type: none"><li>• Generation<ul style="list-style-type: none"><li>• Open access</li><li>• State</li></ul></li><li>• Discom</li><li>• Open access consumers</li></ul> <div>Combine all schedule</div> <div>RLDC data download</div> <div>Compilation in system</div> <div>Revision handling</div> <div>Monitor schedule</div> <div>Contingency management</div> <div>Rule based decisions</div>		<div>Scheduling revisions</div> <div>Final scheduling from DA (After IXL/PXL)</div> <div>RLDC website data download</div> <div>Final schedule to:</div> <ul style="list-style-type: none"><li>• Discoms</li><li>• Generators</li><li>• Open access</li></ul> <div>Merit Order Dispatch (MOD)</div> <div>Contingency management</div> <div>Critical case handling</div> <div>Approval to (S)</div>		Same as Shift A	

Work related needs

- Day to day activities should be automated
- Simple & easy process of flow
- Reliable & security aspects are most important

Life goals

- To live a healthy life and want to travel abroad
- To own a house in Dehradun
- UPSC exams (Second attempt)

Experience Goals

- Minimum manual interventions
- Revisions maintenance automation
- Automation in scheduling download/upload process
- Web portal type of solutions
- Alerts & alarms in critical cases


Frustrations

- Lots of manual and repetitive jobs
- Daily routine job changes as rotating shifts (Personal life hamper)
- No excuse job (High risk)
- Full time screen monitoring work

19

# Shift in charge, scheduling

## SHIFT IN CHARGE, SCHEDULING



### Ajay Singh

Rooftop | SEC As | Married with 3 kids | Owns a Maruti Alto & Hero Splendor | Hometown: Varanasi

Basic info

Age: 50

Education: B.E. (Electrical)

Experience: 20 years in Trans-co 5 years in SLDC

Typical day at work

Shift A	Shift B	Shift C
<ul style="list-style-type: none"> <li>Scheduling</li> <li>Compilation in system</li> <li>Revision handling</li> <li>Monitor schedule</li> <li>Contingency management</li> <li>Rule based decisions</li> </ul>	<ul style="list-style-type: none"> <li>Scheduling revisions</li> <li>Approves schedule for:               <ul style="list-style-type: none"> <li>Discoms</li> <li>Generators</li> <li>Open access</li> </ul> </li> <li>Merit Order Dispatch (MOD)</li> <li>Contingency management</li> <li>Critical case handling</li> <li>Approval to (S.E.)</li> </ul>	Same as Shift A

Work related needs

- Day to day activities should be automated
- Simple & easy process of flow
- Reliable & security aspects are most important

Life goals

- Wants to have a secure retirement plan
- To settle both the daughters
- To be part of regulatory commission


Experience Goals

- Minimum manual interventions
- Automation in scheduling download/upload process
- Alerts & alarms in critical cases


Frustrations

- Lots of manual and Repetitive jobs
- No excuse job (High risk)
- Full time screen monitoring work
- Daily routine job changes as rotating shifts (Personal life hamper)

TECHNOLOGY




Schedule management  
Checking Emails  
Monitoring



General use of android smart-phone  
Internet browsing

# Assistant engineer, data acquisition & validation

## ASSISTANT ENGINEER, DATA ACQUISITION & VALIDATION



### Roshan Jha

Modern | SEC As | Single, lives with flatmate | Owns a Yamaha FZ

Basic info


Age: 27

Education: B.E. (Electrical)


Experience: 2 years

Hometown: Akola


Typical day at work




Checks previous weeks updates




Interactions with participants



Monitors periodic tasks



Preparing reports



Data validation based on acquired data

Updates on pending meter reading and data

Inter departmental communications whenever required

Work related needs

- Hassle free data acquisition
- Simple & easy process of flow
- Better Inter departmental coordination

Life goals

- Wants to settle down in Lucknow
- Starting his own food business
- Wants to travel abroad


Experience Goals

- A easy to operate system for dispute free DAS
- Validation checks should be automated
- Alerts & alarms for Irrelevant data encountered
- Minimum manual interventions


Frustrations

- Tedious and time consuming data validation
- Lots of manual process
- Inter departmental & follow ups

TECHNOLOGY

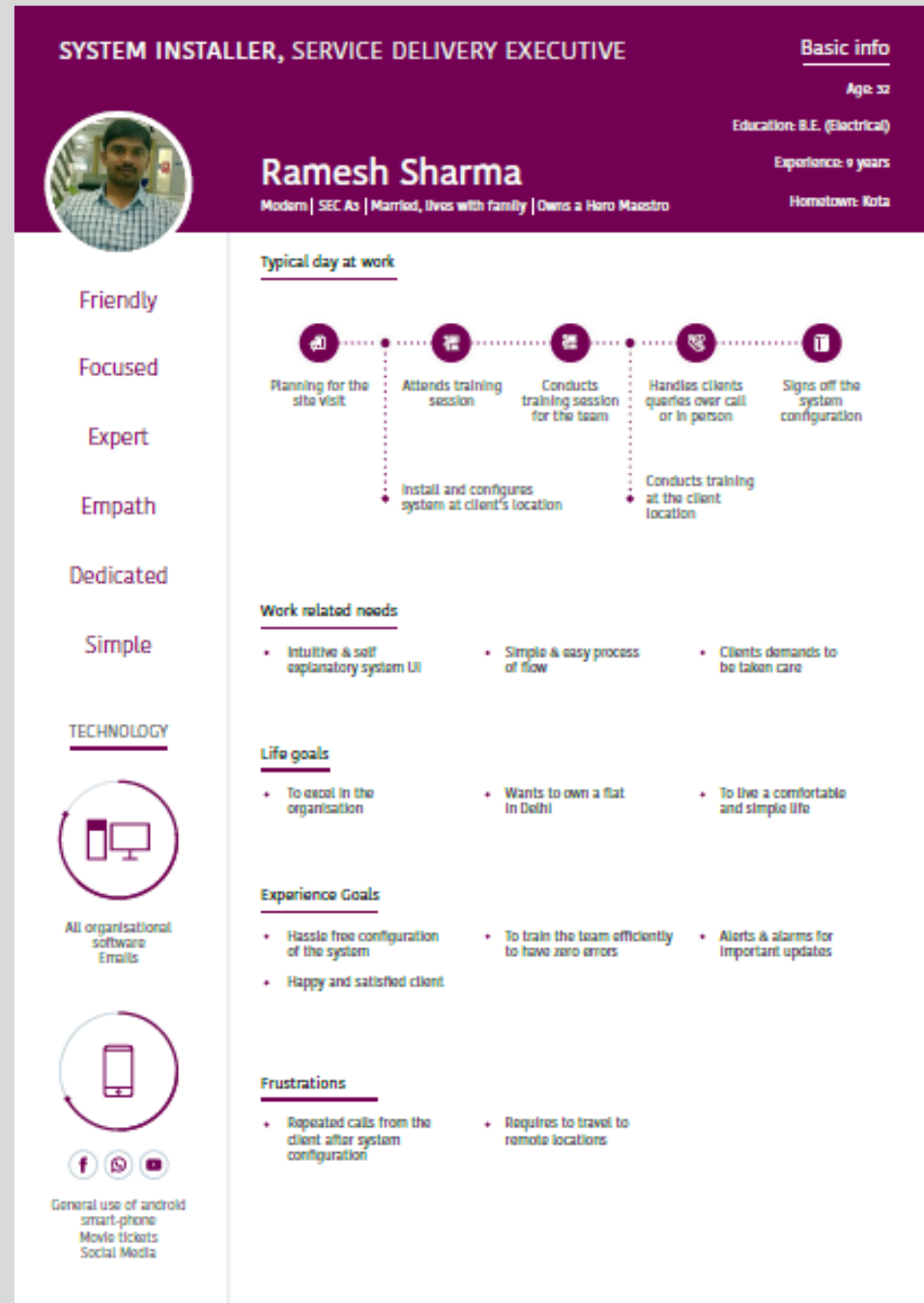


DAS & DV  
Checking Emails

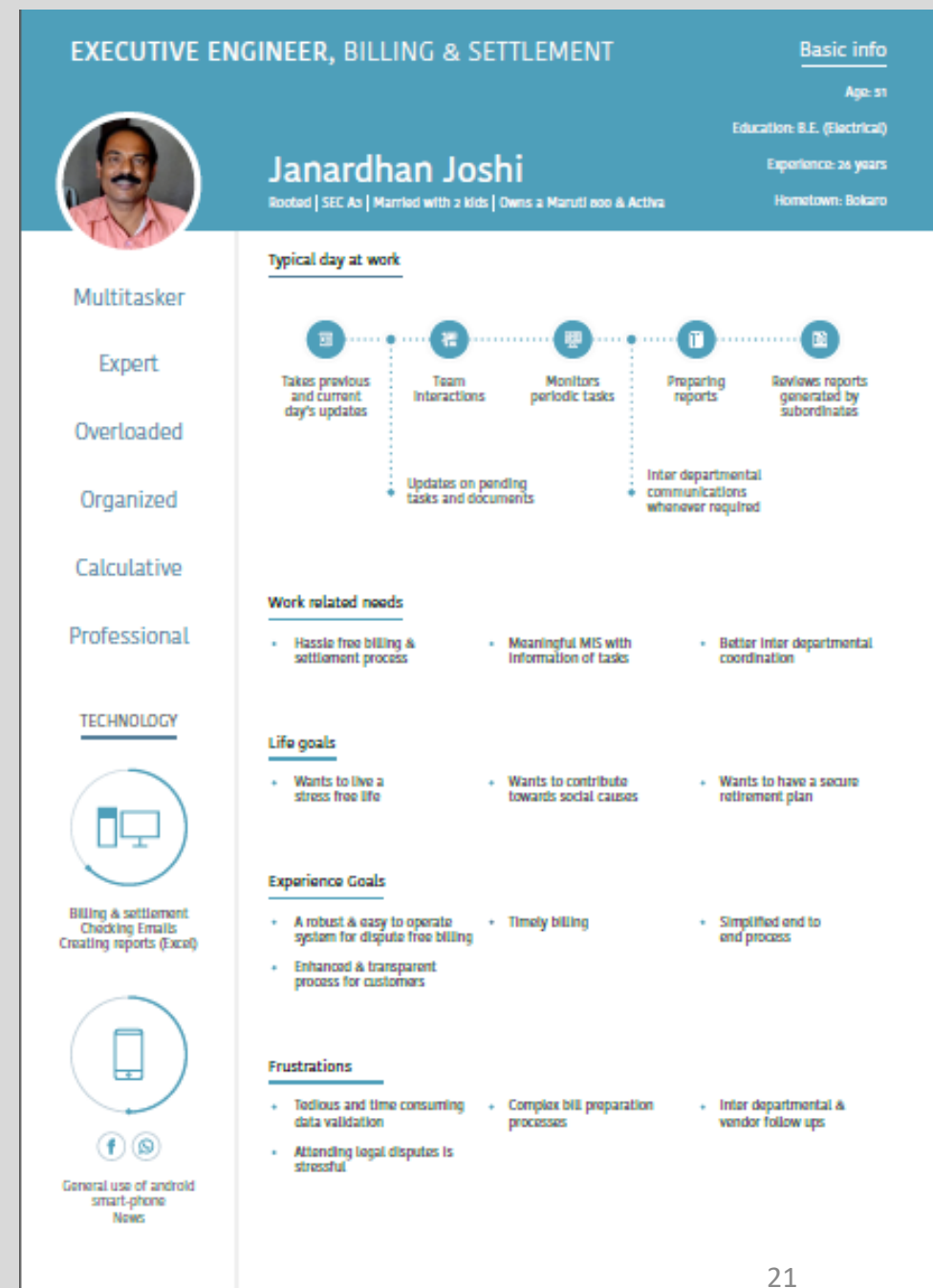


General use of android smart-phone  
Internet browsing  
Tickets  
Social Media

# System installer, service delivery executive



# Executive engineer, billing & settlement



# Epics

Sr. No.	Business Process (Name of the Business Process area)	Epic (Name of the Epic)	Context (Brief description of the Epic giving the context)
1	Master definition	Installation & Commissioning	Refer object no. EPIC00088 for details in agile
2	Read meter data	Data acquisition	Refer object no. EPIC00089 for details in agile
3	Validate meter data	Validation, Estimation & Editing	Refer object no. EPIC00090 for details in agile
4	Web based schedule	Schedule Management	Refer object no. EPIC00091 for details in agile
5	Open access approval	Open access approval	Refer object no. EPIC00092 for details in agile
6	Commercial settlement	Billing & Settlement	Refer object no. EPIC00093 for details in agile
7	User Management	User Management	Refer object no. EPIC00094 for details in agile
8	Diagnostic support	Diagnostic support	Refer object no. EPIC00095 for details in agile
9	Problem & Defect reporting	Problem & Defect reporting	Refer object no. EPIC00096 for details in agile
10	Performance requirement	Performance requirement	Refer object no. EPIC00097 for details in agile
11	Security requirement	Security requirement	Refer object no. EPIC00098 for details in agile
12	Energy accounting	Energy accounting	Refer object no. EPIC00110 for details in agile

# Phase 2 Functional requirements

Business Process Area	Epic Name	User Story Name	Group	Category	Priority	Entity	As a	I want to	so that	Acceptance criteria	Remarks	Planned Phase	Planned Build	Expected screens	eWatch ABT mapping	Expected walkthrough date	Expected baseline date
Scheduling	Schedule Management	Show overall summary of scheduling (Intra-day & Day-ahead)	Core feature	A	33	Generator	Administrator	View Latest Revision no., MW, MU, MVar, Latest updated on for day ahead and intra-day schedule for each plant.	I can view summary of Declared and Dispatch schedules.	1. Update the data once schedule revision is downloaded from LDC website.		P2	B4	1	Partial	5/17/2021	5/25/2021
Scheduling	Schedule Management	Configure Declared capacity (DC) template	Core feature	A	34	Generator	Administrator	Configure DC schedule template with following details: Demand (in MW) and energy (in MWh), ramping capability (ramp up and ramp down) MW/ min or MW/ hour	It can be used DC schedule preparation and compilation.	Any new schedule parameter can be added in future.		P2	B4	6	Yes	5/17/2021	5/25/2021
Scheduling	Schedule Management	Configure Dispatch schedule (DS) template	Core feature	A	35	Generator	Administrator	Configure Dispatch schedule template with the following details - ISGS, MTOA, STOA, LTA, IEX, PXIL, URS, RRAS, SCED, Custom parameter	I can configure standard Dispatch schedule template for each plant	Any new schedule parameter can be added in future.		P2	B4	4	Yes	5/17/2021	5/25/2021
Scheduling	Schedule Management	Show overall summary of scheduling of all plants	Generator holding	A	60	Generator Holding	user	View Latest Revision no., MW, MU, MVar, Latest updated on for day ahead and intra-day schedule for all plants.	I can view summary of Declared and Dispatch schedules.	1. Update the data once schedule revision is downloaded from LDC website.		P2	B5	1	No	5/17/2021	5/25/2021
Scheduling	Schedule	Configure term ahead	Advanced	B	36	Generator	Administrator	configure no of days for advance scheduling	It can be used in term ahead	Enable it if required by customer		P2	B4	1	No	5/27/2021	6/3/2021

# Phase 2 User stories

Sr. No.	Business Process Area	Epic Name	User Story Name	Group	Category	Entity	As a	I want to	so that
1	Master Definition	Installation & Commissioning	Define 15 min to 5 min migration	Master definition	#N/A	Genco	Administrator	Define migration from 15 min time blk to 5 min time blk from a specific date	I can run all commercial activity on 5 min time blk
2	Master Definition	Installation & Commissioning	Define Entity	Master definition	#N/A		Service engineer	Define Entities like SLDC, Transco, Genco, Discom, OA Customer	I can identify the entity.
3	Master Definition	Installation & Commissioning	Define Participants	Master definition	#N/A		Service engineer	Define Participants like Generators (ISGS, InSGS), CPP, IPP, Discoms, Open Access Consumers etc.	I can identify pool participants.
4	Master Definition	Installation & Commissioning	Define Traders	Master definition	#N/A		Service engineer	Define Trader like IEX, PXIL, private traders (Tata, Reliance, Manikaran etc.)	I can manage energy contracts.
5	Master Definition	Installation & Commissioning	Define Meter Manufacturer	Master definition	#N/A		Service engineer	Define meter manufacturer like Secure, L&T, Genus etc.	I know meter manufacturers in our system.
6	Master Definition	Installation & Commissioning	Define MODBUS mapping.	Master definition	#N/A		Service engineer	Define MODBUS meter mapping	I can read meter on MODBUS protocol i.e. Profile reading to be done from meter, with selective sending to headend.





### Goal setting

- Business goal
- Stakeholders interview
- Module setting
- Team allocation



### Research

- Insights
- Epic and user stories
- User personas



### Engineering

- Information architecture
- Lo-fi flow maps
- Hi-fi wireframes



### Design

- Design research
- Design concept
- Usability testing

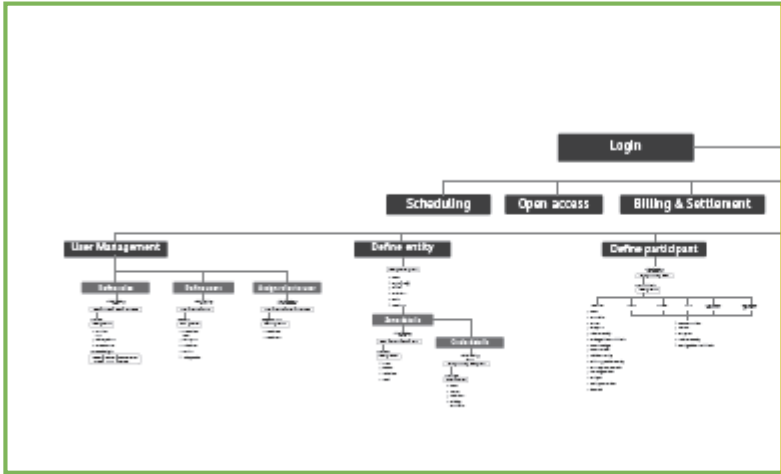
# Information Architecture

# Part A

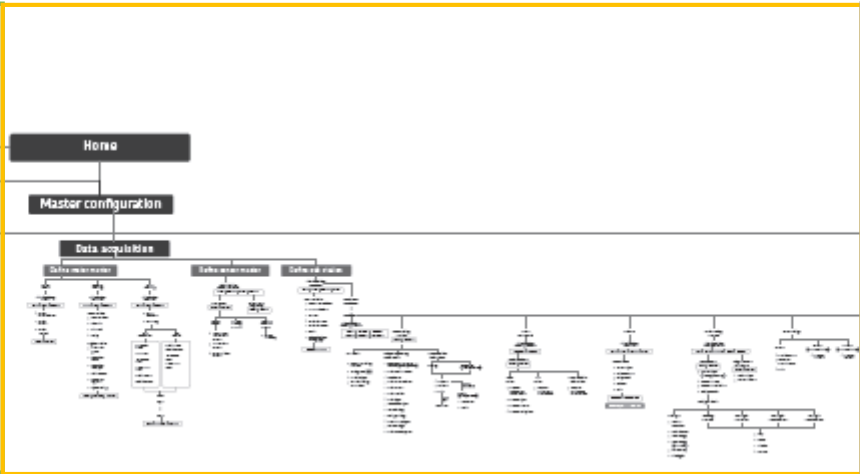
**Level 0:** Login | Home

**Level 1:** Scheduling | Open access | Billing & Settlement | Master configuration

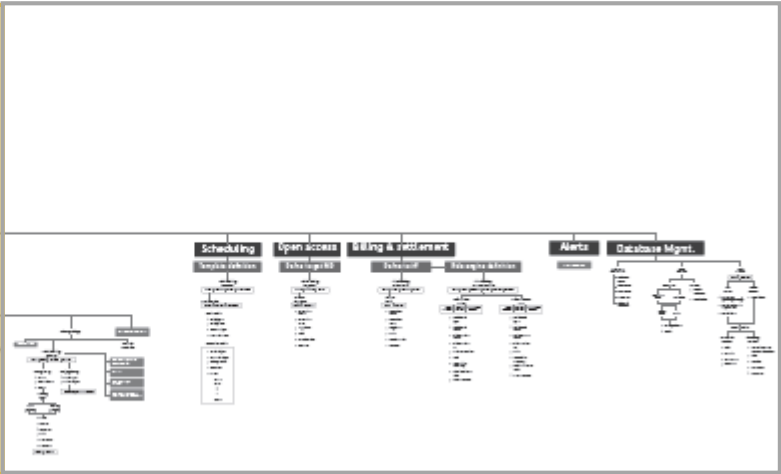
**Level 2:** User Management | Define entity | Define participant | Data acquisition | Scheduling | Open access | Billing & settlement | Alerts | Database Mgmt.



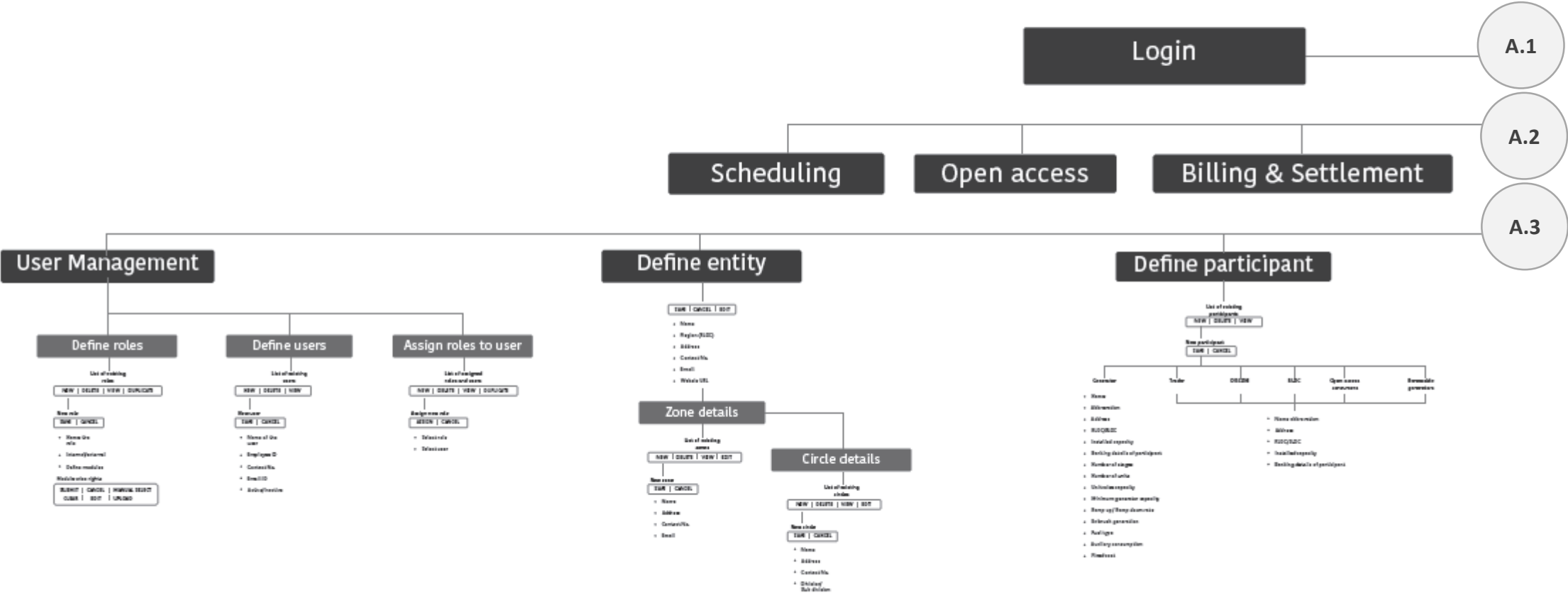
wing A.1

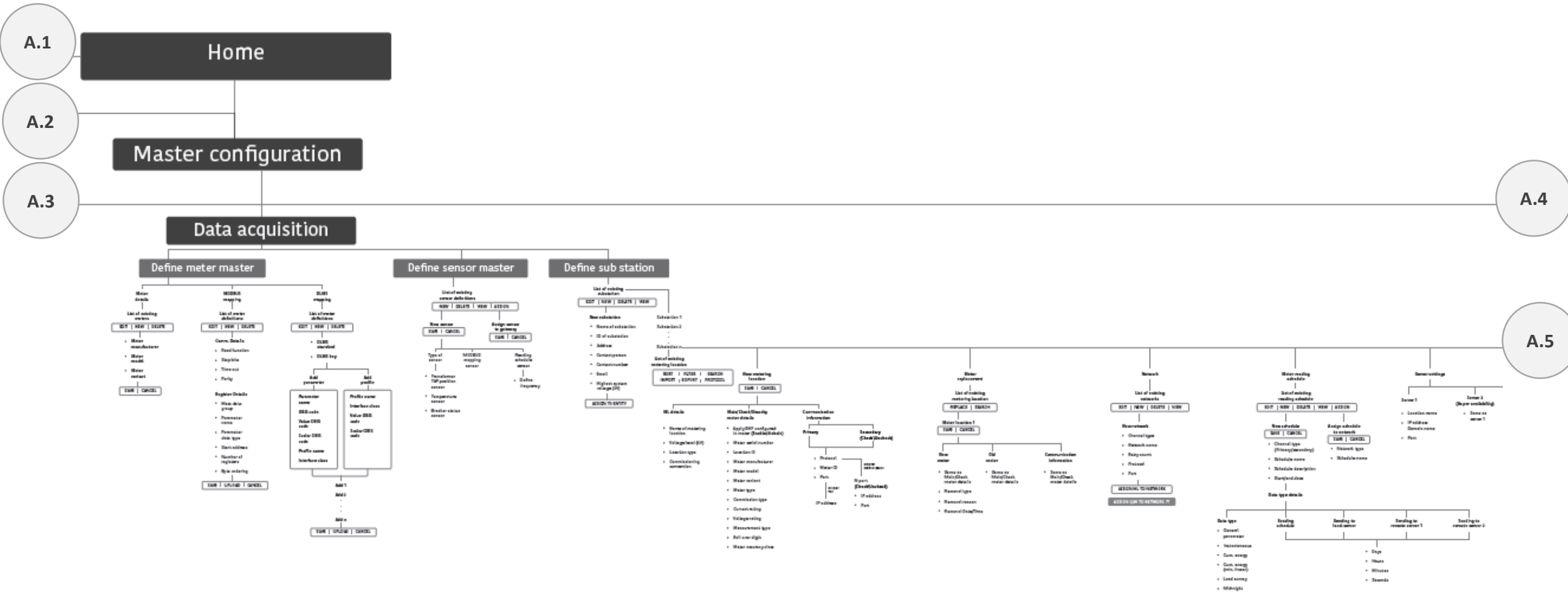


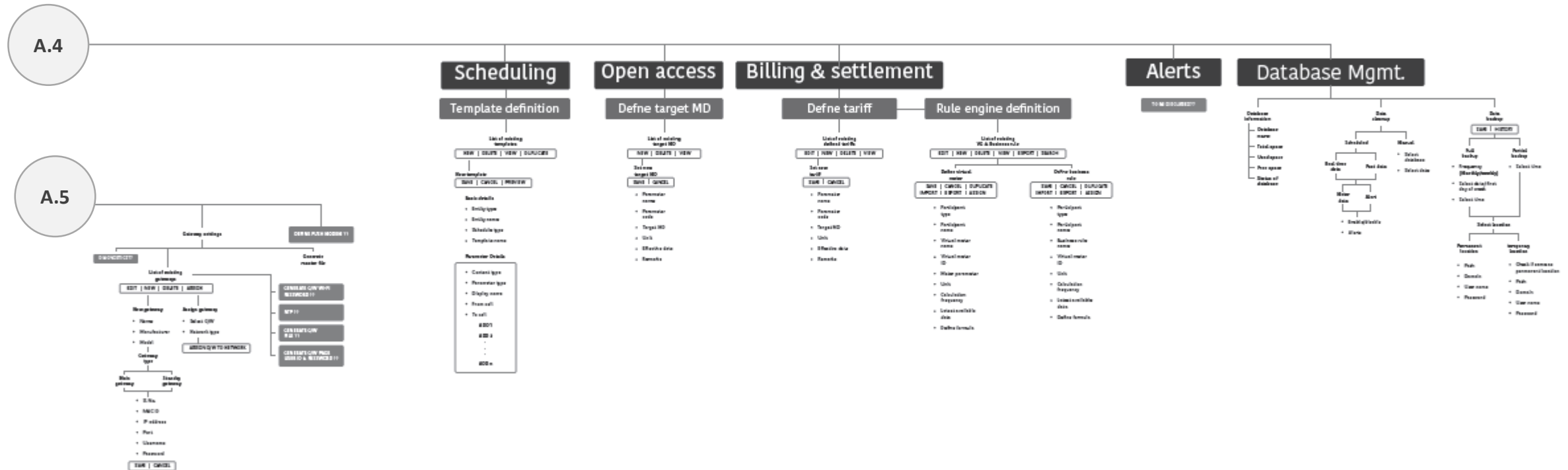
wing A.2



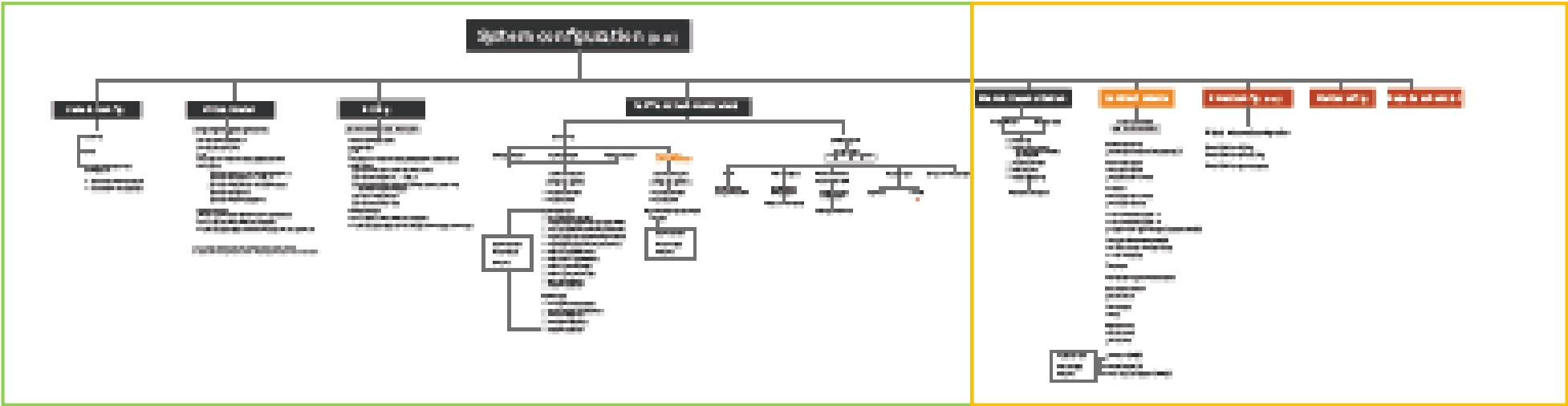
wing A.3





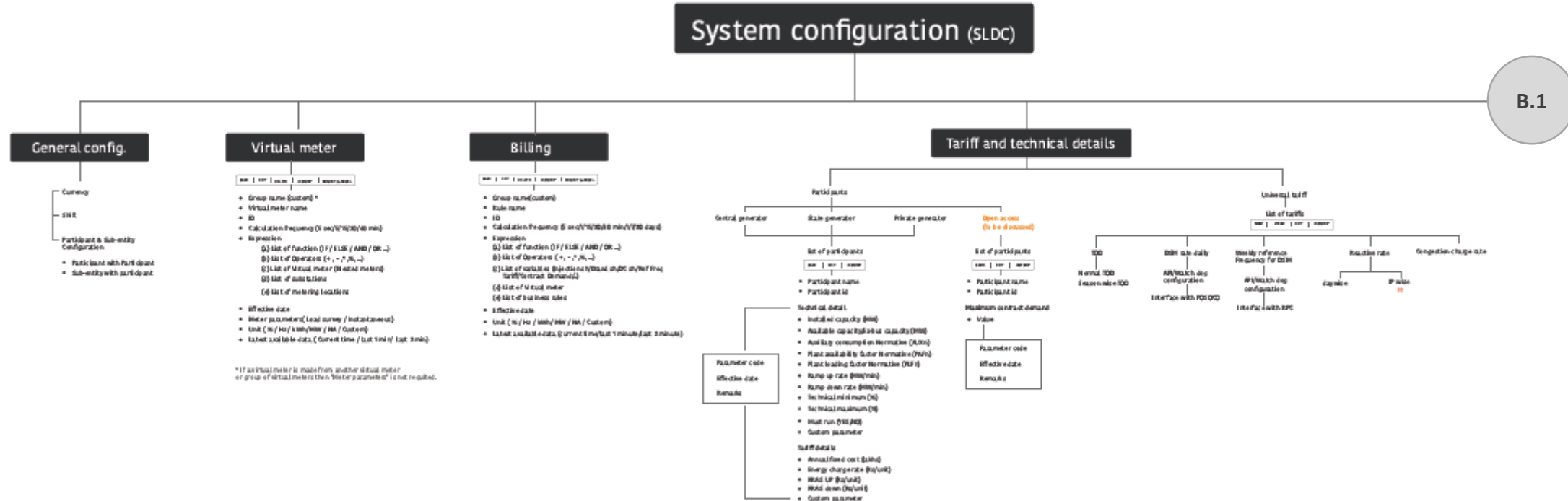


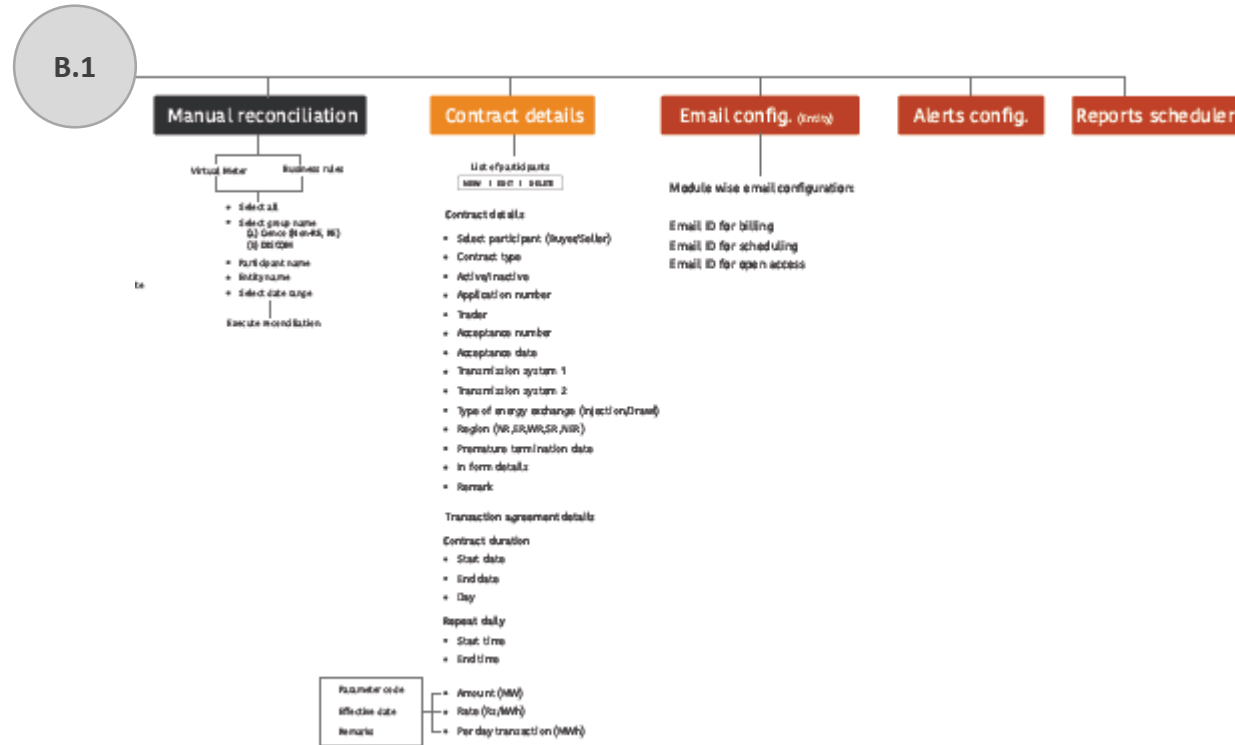
**System configuration (SLDC):** General config | Virtual meter | Virtual meter Billing | TariE and technical details | Manual reconciliation | Contract details |Email config. (Entity) | Alerts config. | Reports scheduler



wing B.1

wing B.2



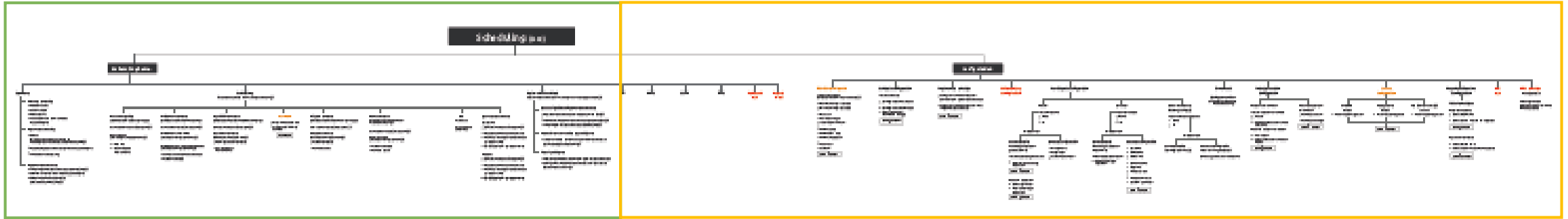




## Information Architecture (IA-3)

# Part C|D

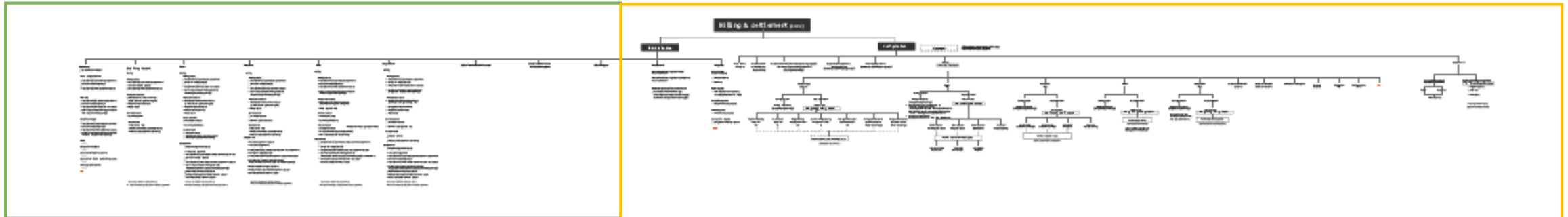
## Scheduling (SLDC): Scheduling home| Configuration



## wing C.1

wing C.2

## Billing & settlement (SLDC) : B & S's home | Configuration



wing D.1

wing D.2

Data acquisition ► Master definition

Master definition

Devices & servers Substations

Define meters

Parameter mapping

Import meter assets

Import gateway assets

Upgrade gateway firmware

Pair meters

Communication server

Time sync server

Sync data

Pair meters

End 1

Substation Name:

ML Name:

Meter type: M ☒ C ☐ S ☐

Meter Serial NO:

Effective date:

Cancel Save

End 1 ☒ End 2 ☐

Substation Name:

ML Name:

Meter type: M ☐ C ☒ S ☐

Meter Serial NO:

Meter pair list

S. No	End 1			End 1 or End 2			Relationship	Effective date
	Substation name	ML name	Meter Serial	Substation name	ML name	Meter Serial		
1	NTPC-K1	120	1001	NTPC-K1	120	2002	M-C	1/5/2022
2	NTPC-K1	70	1005	NTPC-K2	140	2004	M-M	7/6/2022
3	NTPC-K2	50	1006	NTPC-K2	60	2009	M-S	9/8/2022
4								

Data acquisition ► Master definition

Master definition

Devices & Servers Substations

- Define meters
- Para-meter mapping
- Import meter assets
- Import gateway assets
- Upgrade gateway firmware

Pair meters

Communication server

Time sync server

Sync data

Pair meters

End 1

Substation name:

ML name:

Meter type: M ☒ C ☐ S ☐

Meter Serial NO:

Effective date:

Cancel Save

End 1 ☒ End 2 ☐

Substation Name:

ML Name:

Meter type: M ☐ C ☒ S ☐

Meter Serial NO:

Meter pair list

S. No	End 1			End 1 or End 2			Relationship	Effective date
	Substation name	ML name	Meter Serial	Substation name	ML name	Meter Serial		
1	NTPC-K1	120	1001	NTPC-K1	120	2002	M-C	1/5/2022
2	NTPC-K1	70	1005	NTPC-K1	140	2004	M-M	
3	NTPC-K2	50	1006	NTPC-K2	60	2009	M-S	
4								

Edit  
Delete  
History

Data acquisition ► Master definition  
Master definition

## NTPC-K1 History

Close

15:28  
17/05/2022

End-1			End1 / End2			Relationship	From date	To date	Change on	changed by
Substation name	ML name	Meter Serial	Substation name	ML name	Meter Serial					
NTPC-K1	120	1005	NTPC-K1	140	2004	M-S	1/7/2021	8/5/2022	16/05/22	Pradeep
NTPC-K1	120	1005	NTPC-K2	70	2006	M-C	4/8/2020	31/06/2021	6/08/21	Vinay
—	—	—	—	—	—	—	—	—	—	—

Time Sync Between

Sync data

	Substation name	ML name	Meter Serial	Substation name	ML name	Meter Serial	Relationship	Effective date
1	NTPC-K1	120	1001	NTPC-K1	120	2002	M-C	1/5/2022
2	NTPC-K1	70	1005	NTPC-K1	140	2004	M-M	7/6/2022
3	NTPC-K2	50	1006	NTPC-K2	60	2009	M-S	9/8/2022
4								

Data acquisition ► Master definition  
Master definition

Devices & survey Substations

Pair meters

End 1

Substation Name:

Cancel Save

End 1 ☒

End 2 ☐

Substation Name:

ML Name:

Meter type: ☒ M ☒ C ☐ S

Meter Serial No:

Define meters

Parameter mapping

Import meter assets

Import gateway assets

Upgrade gateway firmware

Pair meters

Communication gateway

Time sync server

Sync data

Are you confirm to delete  
NTPC-K1 M-S Pairing?


Yes

☒ NO

	Substation name	ML name	Meter Serial	Substation name	ML name	Meter Serial	1 or End 2	Relationship	Effective date
1	NTPC-K1	120	1001	NTPC-K1	120	2002		M-C	1/5/2022
2	NTPC-K1	70	1005	NTPC-K1	140	2004		M-M	7/6/2022
3	NTPC-K2	50	1006	NTPC-K2	60	2009		M-S	9/3/2022
4									





Modules

Scheduling


Data acquisition


Validation, estimation and editing


Dashboard



Reports



Configuration and administration


System settings


Tariff and technical details


Virtual group and business rules


Alerts configuration


Participants


Entity


User management


Database management


Scheduling [Configuration](#)

Summary

View and prepare schedule

Reports

Current time block 60 (13:45 to 14:00 Hrs)

## NTPC-KHL (current day dispatch schedule)

## KHSTPP-1

143

Revision

89

Average MW

23

Energy (MU)

1 block(s) impacted

## KHSTPP-2

143

Revision

93

Average MW

24

Energy (MU)

1 block(s) impacted

## KHSTPP-3

143

Revision

91

Average MW

20

Energy (MU)

1 block(s) impacted

## KHSTPP-4

143

Revision

89

Average MW

23

Energy (MU)

## KHSTPP-1

## Current day

## Dispatch schedule (DS)

Revision	Average MW	Energy (MU)
143	89	23

Auto | 10.05.2021 19:07

## Declared capacity (DC)

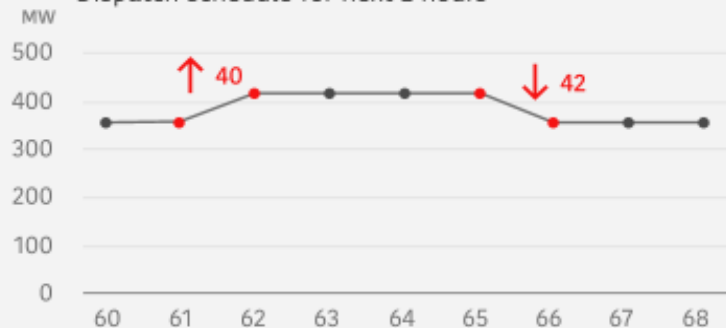
Revision	Average MW	Energy (MU)
152	97	32

Manual | 10.05.2021 19:05

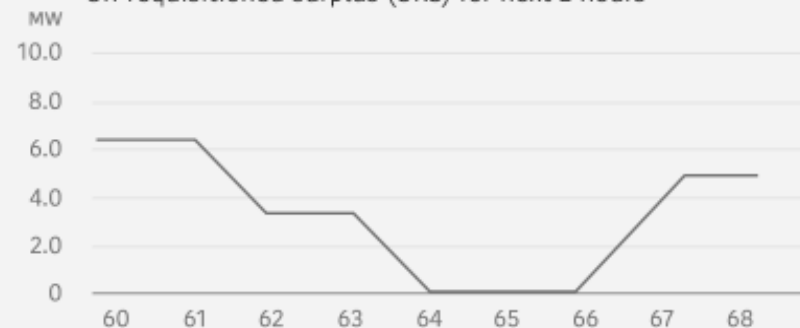
## Rate and grid frequency

Frequency (Hz)	DSM (₹/unit)	Fuel (₹/unit)
49.05	2	5

## Dispatch schedule for next 2 hours



## Un-requisitioned surplus (URS) for next 2 hours



## Next day

	Revision	Date and time	Average MW	Energy MU
Dispatch schedule	36	10/05/2021 19:07	89	187
Declared capacity	42	10/05/2021 19:07	96	166

## Implemented schedule

Revision	Week detail	Date and time
3	19	10/05/2021 19:07
4	19	10/05/2021 19:07

## Data acquisition

[Master definition](#)

System summary

Dashboards

Reports

On-demand meter reading

Upload meter data

Data acquired from 17/06/19 00:00 to 18/06/19 16:40 [Refresh](#)

Meters, substations and gateways

[Search](#)

## Critical alerts

No data received from

30

Substations

Last gasp in

05

Gateways

Time drift in

02

Gateways

Poor signal in

80

Gateways

Time drift in

05

Meters

[View all substations >](#)

Total: 200

[View all gateways >](#)

Total: 440

## Data acquisition status



Complete (100%)	50
Partial (< 90%)	100
Partial (> 90%)	20
No data (0%)	30

## Gateway connectivity status



Good 71 to 100 % signal	120
Average 41 to 70 % signal	240
Poor 0 to 40 % signal	80





### Goal setting

- Business goal
- Stakeholders interview
- Module setting
- Team allocation



### Research

- Insights
- Epic and user stories
- User personas



### Engineering

- Information architecture
- Lo-fi flow maps
- Hi-fi wireframes



### Design

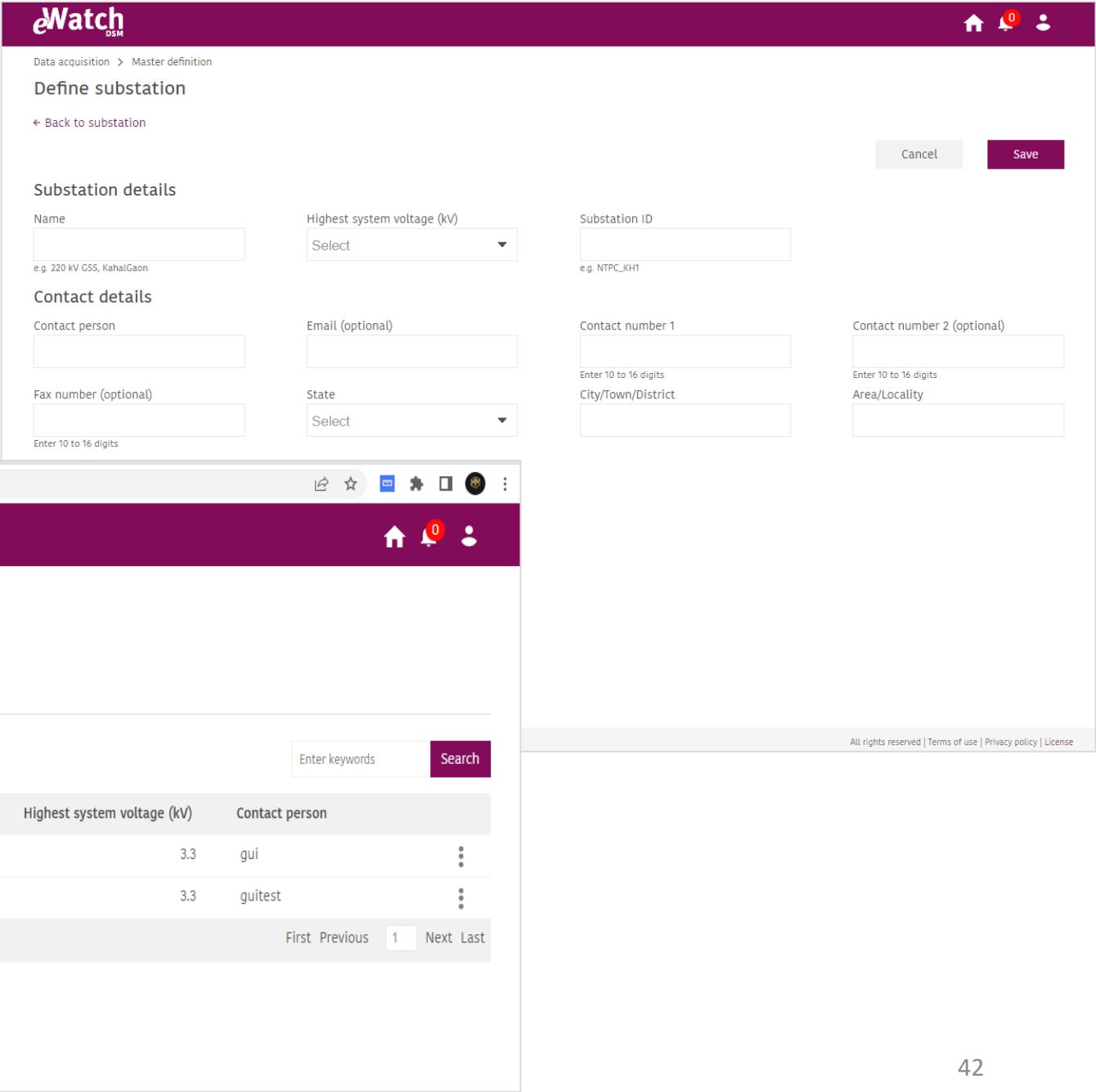
- Design research
- Design concept
- Usability testing

# Visuals Design

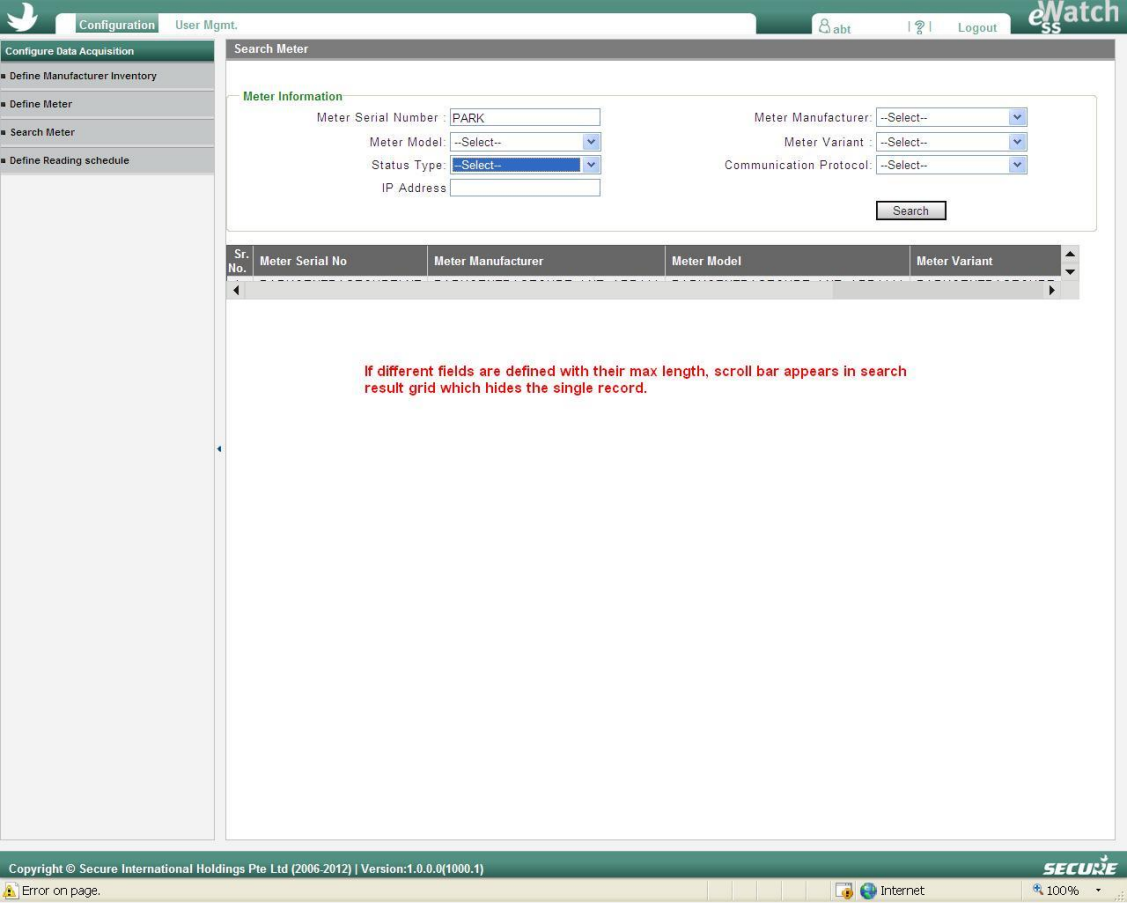
Colors : Secure color palette

Typeface: Secure brand font (Kohinoor)

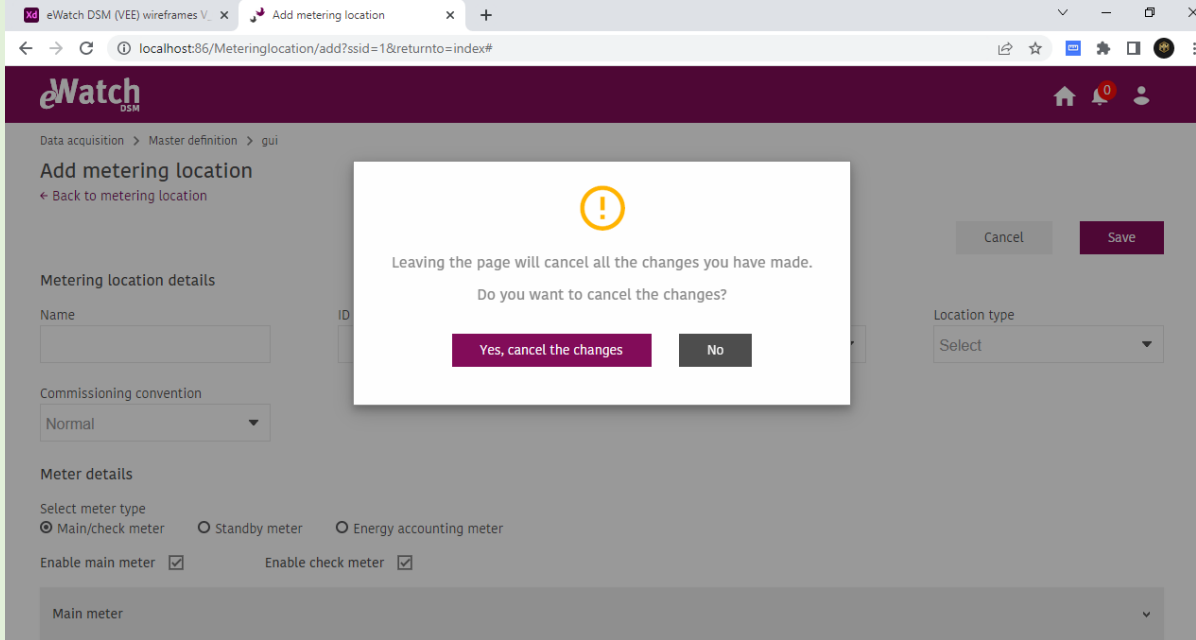
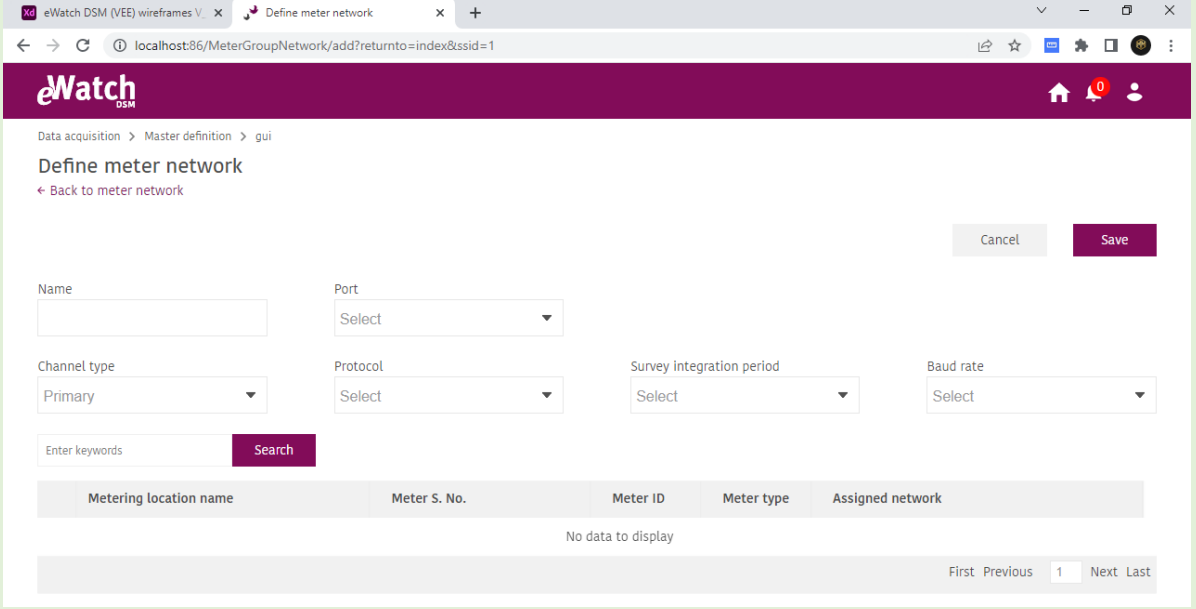
Micro-interactions : Carousal widget, Row dots context menu



# A/B testing ( ABT version vs DSM version )



Before



After

# A/B testing ( ABT version vs DSM version )

eWatchSS - Windows Internet Explorer provided by SECURE

ABT Revenue Management Administrative Area User Mgmt. Monitor

abT Logout eWatchSS

Configure Data Acquisition  
Manage ABT Schedule  
Energy Exchange Contract  
Define ABT Schedules  
Virtual Group Management

Define ABT Schedules

Save Save As Revise Freeze Cancel

Select Date: 14/08/2012 00:00:00 Schedule Type: Drawal Schedule

Schedule Details

Entity Name : NTPC Entity Type : Generator  
Constituent : ISGS Constituent Authority : Amir Khan  
Load Dispatch Center : Haryana load Dispatch center Load Dispatch Center Authority : salman khan  
Issue Date : 14/08/2012 15:43:26 Revision Number : 0  
Message Number : abcdefghijklmnopqrstuvwxyabcde Reason For Revision : abcdefghijklmnopqrstuvwxyabcde

No Spacing Provided.

TimeBlock	From	To	Participant1	Participant2	Loss	ISGSWheelingDe
1	0:0	0:360	99999.999		999.999	999.999
1	0:0	0:360		11111.111	999.999	999.999

Copyright © 2006-2012 Secure International Holdings Pte Ltd. | Version:1.0.0.0(1000.8)

Local intranet 100%

Before

localhost:86/Substation

eWatchDSM

Data acquisition > Master definition

Master definition

Devices and servers Substation

Substations Define substation

Enter keywords Search

Name	Metering locations	Substation ID	Highest system voltage (kV)	Contact person
gui	0	gui_1	3.3	gui
gui2	0	ntpc	3.3	guiltest

First Previous 1 Next Last

eWatchDSM (VEE) wireframes V Define substation

localhost:86/Substation/Add?returnto=index

eWatchDSM

Data acquisition > Master definition

Define substation

Back to substation

Cancel Save

Substation details

Name Highest system voltage (kV) Substation ID

Select Select

e.g. 220 kV GSS, KahaiGaon e.g. NTPC\_KH1

Contact details

Contact person Email (optional) Contact number 1 Contact number 2 (optional)

State City/Town/District Area/Locality

Enter 10 to 16 digits Enter 10 to 16 digits

Enter 10 to 16 digits

After

PR50423

PR50423
Closed

Problem Report • Alert page 1.We are not getting notification after clicking "Mark all as read" on alert dashboard Refer excel Sheet

Comment
Navigator
Actions

Cover Page
Affected Items
Related Problem Reports
Workflow
Relationships
Attachments
History

Problem Details | Problem Review

Number: PR50423
Type: Problem Report
Description: Alert page  
1.We are not getting notification after clicking "Mark all as read" on alert dashboard  
  
Refer excel Sheet
Workflow: Problem Report
Status: Closed
Originator: Mohammed Mazhar Khan
Date Originated: 22/10/2021 01:42:25 PM IST
Date Completed: 27/04/2022 04:08:13 PM IST
Impact on Customer: Trivial
Quality Analyst: Quality Analyst - ASW

Problem Details

Priority for Action: Fix Immediately to proceed– with new build/revision
Problem Fixer: Pratap Aditya
Problem Introducer:
Product Sub Family: Bulk Power Monitoring
Product: eWatch DSM
Product Component: Application Software
Classification: Feature Request
SPR/ DRN/ FFA/ CN Number: G2P00061
G2P Number: G2P00061
Originating Process: Development
EPIC/Module (Mandatory for SW system as a service alert page program\_others can fill NA):
Detailed Description: 1.We are not getting notification after clicking "Mark all as read" on alert dashboard  
2.Initially 104 Alert showing on bell icon when user click "mark all as read" alert showing on bell icon 100 instead of 99
Recreation Steps: 1.Generate alert and click on " Mark all as read" and check alert message .Now Click on refresh button on application and all message on grid Checked  
2.Check alert on bell icon and click Mark all as read
Phase Detected: Software Validation
Critical activities (Fixed Duration Program Only): System\NA

PR17234

PR17234
Closed

Problem Report • GUI issues in search Metering location

Comment
Navigator
Actions

Cover Page
Affected Items
Related Problem Reports
Workflow
Relationships
Attachments
History

Problem Details | Problem Review

Number: PR17234
Type: Problem Report
Description: GUI issues in search Metering location
Workflow: Problem Report
Status: Closed
Originator: Sandeep Tanwar
Date Originated: 03/05/2012 11:03:45 AM IST
Date Completed: 30/08/2012 05:55:15 PM IST
Impact on Customer: Medium\Fix in Next Build / Revision
Quality Analyst: Quality Analyst - ASW (Gur)

Problem Details

Priority for Action: Fix in Next Build / Revision
Problem Fixer:
Problem Introducer:
Product Sub Family: Online Monitoring - ABT
Product: eWatch ss
Product Component: Application Software
Classification: Problem
SPR/ DRN/ FFA/ CN Number: DRN02848
G2P Number:
Originating Process: Development
EPIC/Module (Mandatory for SW system as a service Search Metering Location program\_others can fill NA):
Detailed Description: GUI issues in search Metering location:  
1) Alignment of column header is not proper in search results  
2) Field name alignment is not proper. Refer attachment
Recreation Steps: GUI issues in search Metering location:  
1) Alignment of column header is not proper in search results  
2) Field name alignment is not proper. Refer attachment
Phase Detected: Software Validation
Critical activities (Fixed Duration Program Only):

PR15856

PR15856
Closed

Problem Report • GUI related errors for the Page Buttons, Field Navigations etc.; refer attachment

Comment
Navigator
Actions

Cover Page
Affected Items
Related Problem Reports
Workflow
Relationships
Attachments
History

Problem Details | Problem Review

Number: PR15856
Type: Problem Report
Description: GUI related errors for the Page Buttons, Field Navigations etc.; refer attachment
Workflow: Problem Report
Status: Closed
Originator: Nitin Maheshwari
Date Originated: 05/03/2012 06:43:41 PM IST
Date Completed: 23/10/2012 04:09:27 PM IST
Impact on Customer: Medium|Fix in Next Build / Revision
Quality Analyst: Quality Analyst - ASW (Gur)

Problem Details

Priority for Action: Fix in Next Build / Revision
Problem Fixer:
Problem Introducer:
Product Sub Family: Online Monitoring - ABT
Product: eWatch ss
Product Component: Application Software
Classification: Problem
SPR/ DRN/ FFA/ CN Number: DRN02848
G2P Number:
Originating Process: Development
EPIC/Module (Mandatory for SW system as a service program\_others can fill NA):
Detailed Description: GUI related errors;
1> All buttons like, "Save""Reset""Cancel" should be at the right corner o page, but in Application it is at left corner.
2>On the validation message of mandatory fields defination the pointer or cursor locate the Meter Serial Number field inspite of mandatory field which was not filled.
3>Field Names and Messages are not according to Data Dictionary.
4>Colon is not provided with the Integration Period field.
5>Page Hedder Buttons "Save","Reset","Cancel" are not in symmetrical gap to eachother.
6>Messages are not Proper alligned.
Recreation Steps:
Phase Defected: Software Validation
Critical activities (Fixed Duration Program Only):

PR51820

PR51820
Problem Fixing

Problem Report • Offline Registration:- 1. Make non-mandatory "Distributor" and "Consumer number" fields.

Approve
Acknowledge
Reject
Comment
Next Status
Navigator
Actions

Cover Page
Affected Items
Related Problem Reports
Workflow
Relationships
Attachments
History

Problem Details | Problem Review

Number: PR51820
Type: Problem Report
Description: Offline Registration:-
1. Make non-mandatory "Distributor" and "Consumer number" fields.
Workflow: Problem Report
Status: Problem Fixing
Originator: DevNarayan Menariya
Date Originated: 01/06/2022 05:56:46 PM IST
Date Completed:
Impact on Customer: Critical
Quality Analyst: Quality Analyst - ASW (Gur)

Problem Details

Priority for Action: Fix in Next Planned Build/revision
Problem Fixer: Pratap Aditya
Problem Introducer:
Product Sub Family: Software Suite
Product: Sugam PNG
Product Component: Application Software
Classification: Problem
SPR/ DRN/ FFA/ CN Number: SPR01662
G2P Number: G2P00077
Originating Process: Development
EPIC/Module (Mandatory for SW system as a service program\_others can fill NA): Offline Registration
Detailed Description: Offline Registration:-
1. Make non-mandatory "Distributor" and "Consumer number" fields.
Recreation Steps:
Phase Defected: Software Validation
Critical activities (Fixed Duration Program Only): System|NA

Thanks

6 June 2022

Pratap Aditya