Expression Document of G-Stock

Goal/Objective: Implement G-Stock Receive, G-Stock Position menu in TechDiser

Technology and Tools: AngularJS, Javascript, HTML, CSS

Tasks and Sub-Goals:

SN	Tasks	Sub-Goals	Section
1.	1. Projectlist Info Menu 2. Projectlist Filter 3. StockReceive workspace for specific project 4. Fetch material list from service 5. Matrial list Tab 6. Add lot popup	Stock Receive menu	Section 1
2.	1. Projectlist Info Menu 2. Projectlist Filter 3. StockDeclaration workspace for specific project 4. Fetch material list from service 5. Matrial list Tab 6. SKU declare popup 7. Display recived info parrent card 8. display declared info child card	SKU declaration menu	Section 2
3.	1. Projectlist Info Menu 2. Projectlist Filter 3. material info menu 4. Stock Position workspace for specific project and specific material 5. Select container popup 6. container collapsible list 7. cubicle list parent card 8. allotted SKUs child card	Stock position menu	Section 3

	9. Dropdown list (material , container) 10. Color size wise info menu 11. BoxSize wise parent card 12. allotted stock child card	

Section 1 – Stock receive menu

1.1 UI Flow

1.1.1 Stock receive UI
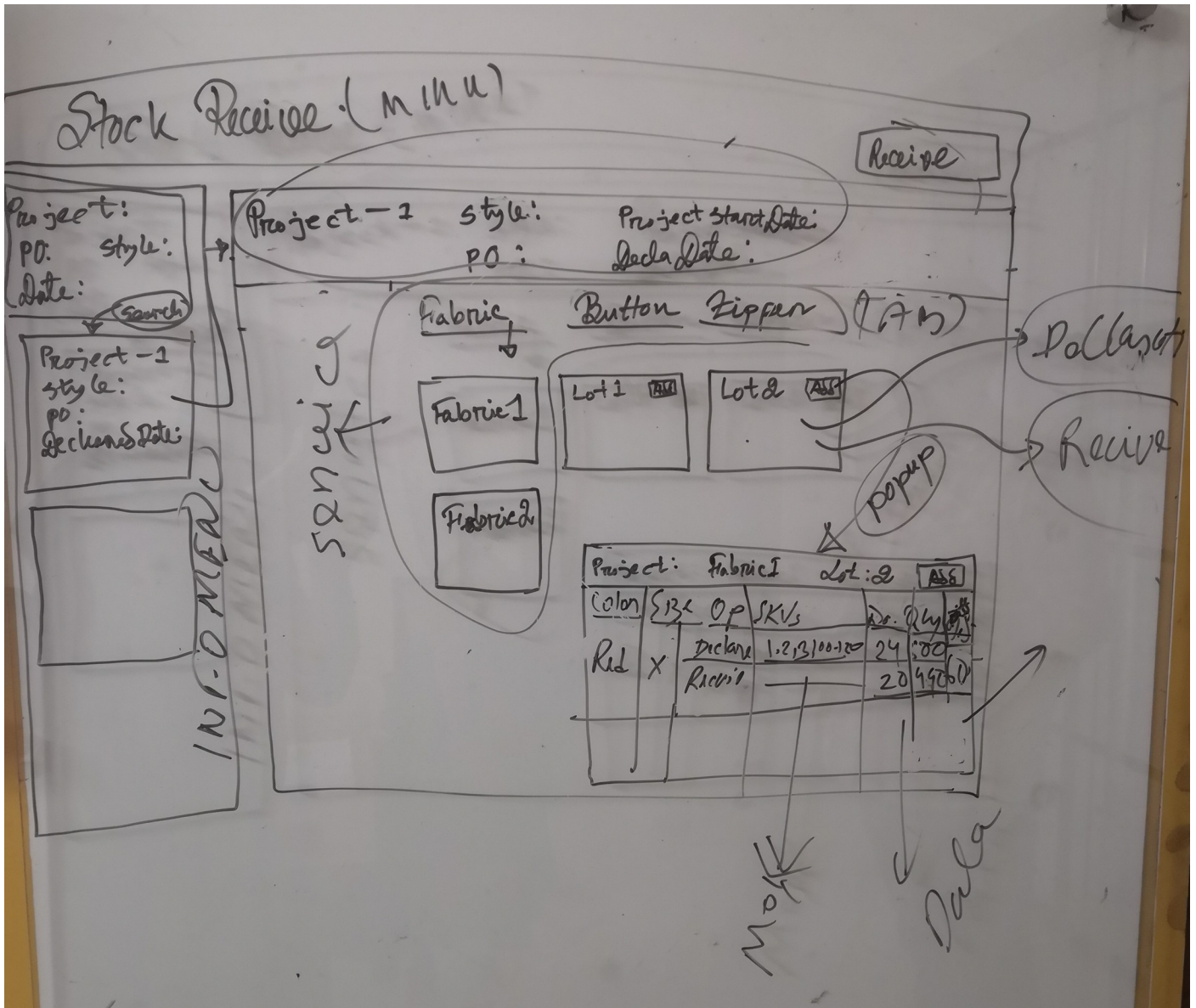
1.1.2 UI Routing Component

1. info Tab – material tab
2. Info Menu – project list
3. popup- Add lot popup

1.1.3 Workspace Component

1. card- project filter, project list, material type (parent card) , lot (child card)
2. header- project info
3. Table- add lot

1.2 Expression Table

SN	Title	Content
1.	External Dependencies	G-stock declare data, Material info service
2.	Business Constraints	
3.	Technical Constraints	
4.	Functions	
5.	Findings	Quantity definition
6.	Unexplored Issue	Filter, work with several data set, Flat data structure, SKU expression, get material list from service
7.	Deliverable	Prepare receive json for SKU declaration menu

1.3 Data Structure

1.3.1 Final Data Structure

Mock Data

```json
{
    "data": [
        {
            "TECHDISER_ID": "order1project1",
            "project": "project-1",
            "projectId": "project1",
            "poId": "order1",
            "styleNo": "SN02",
            "projectCompletionDate": "2020-10-10",
            "sentToGstockDate": "2020-10-11",
            "materials": [
                {
                    "TECHDISER_ID": "order1project1febricfebric1lot1color1size1",
                    "matCategoryID": "febric",
                    "matCategory": "febric",
                    "matTypeID": "febric1",
                    "matType": "febric 1",
                    "lotID": "lot1",
                    "lot": "lot-1",
                    "colorID": "color1",
                    "color": "Red",
                    "sizeID": "size1",
                    "size": "48 inch",
                    "materialDescription": "Silk",
                    "SKUprefix": "SKU",
                    "SKUnumber": "20,25-38",
                    "quantity": "750",
                    "storeKeepingDate": "2020-09-12",
                    "lifeTime": "20245"
                },
                { …
                }
            ]
        }
    ]
}
```

received json:

```json
{
    "data": [
        {
            "TECHDISER_ID": "order1project1",
            "project": "project-1",
            "projectId": "project1",
            "poId": "order1",
            "styleNo": "SN02",
            "projectCompletionDate": "2020-10-10",
            "sentToGstockDate": "2020-10-11",
            "materials": [
                {
                    "TECHDISER_ID": "order1project1febricfebric1lot1color1size1",
                    "matCategoryID": "febric",
                    "matCategory": "febric",
                    "matTypeID": "febric1",
                    "matType": "febric 1",
                    "lotID": "lot1",
                    "lot": "lot-1",
                    "colorID": "color1",
                    "color": "Red",
                    "sizeID": "size1",
                    "size": "48 inch",
                    "materialDescription": "Silk",
                    "SKUprefix": "SKU",
                    "SKUnumber": "20,25-38",
                    "quantity": "750",
                    "storeKeepingDate": "2020-09-12",
                    "lifeTime": "20245",
                    "received": "1-15"
                },
                { …
                }
            ]
        }
    ]
}
```
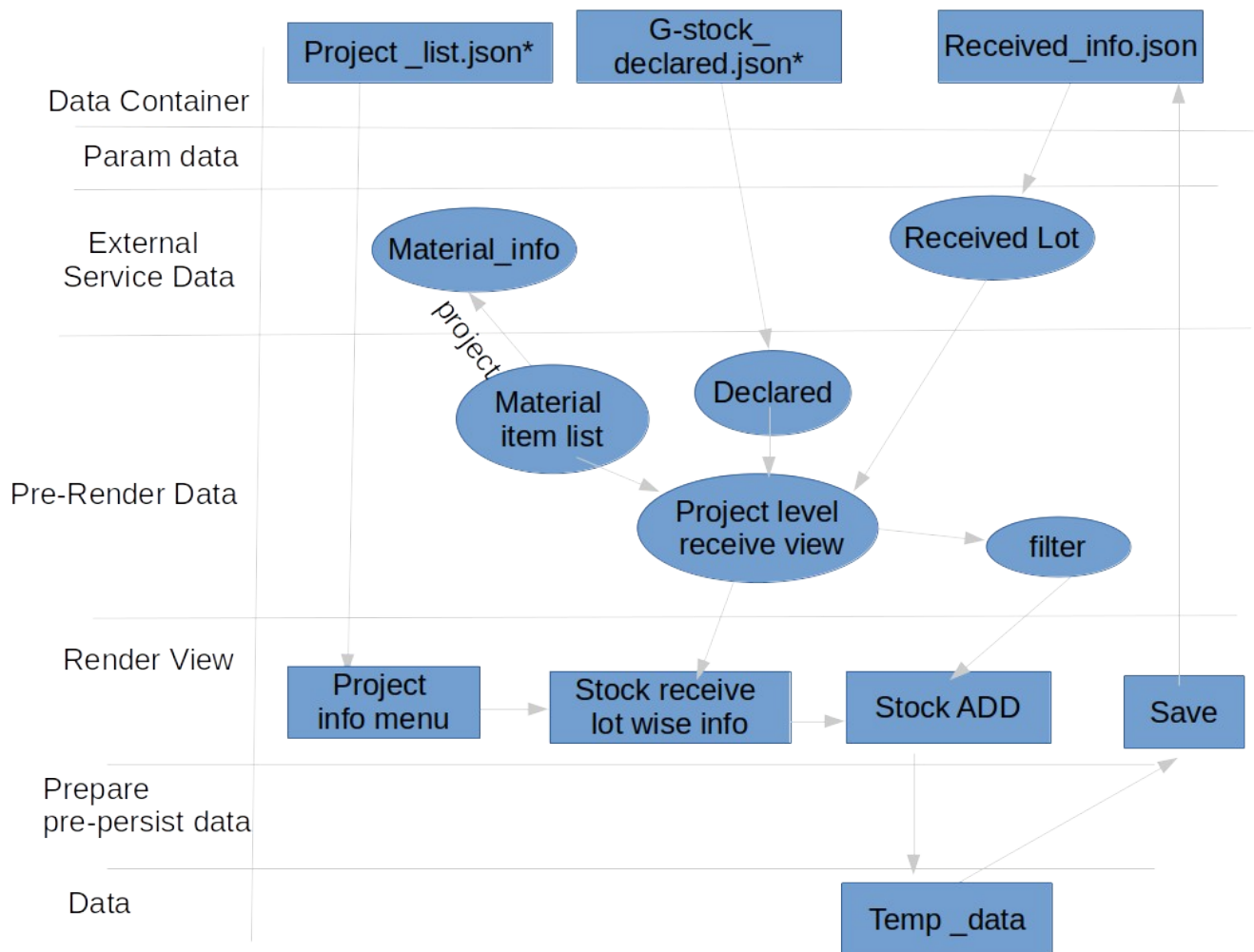
1.3.2 Derivation:

1.4 Operation Flow

Data Container

Param data

External
Service Data

Pre-Render Data

Render View

Prepare
pre-persist data

Data

Project _list.json*	G-stock_ declared.json*	Received_info.json

Material_info

Received Lot

project

Material
item list

Declared

Project level
receive view

filter

Project info menu	Stock receive lot wise info	Stock ADD	Save

Temp _data

1.5 Technical Workout

View	Component	Data Fetch	Prepare View Data	Event	Data Save
Stock Receive (Landing Page)	Left Info Menu Project filter project list	*GetGstock ProjectList()	PrepareProjectList InfoMenu()	1.Search 2.select project card 5. receive	
	1.search		Prepare filtered project list()		
	2.Stock receive workspace for specific project	Get project specific material list() from Inquiry data service	Prepare material type for tab view()	3.select tab	
	3. Material wise lot view card (declared vs receive)	Filter for specific material	Prepare material wise lot info()	4.add	
	5. receive		Prepare receive json save data()		G-Stock receive
4. Add lot popup	Table declared vs receive, quantity	Get previously received lot from received json() *getQuatityDef()	Prepare specific lot view()	6.add	*Temporary data preserve

Section 2 – SKU Declaration

2.1 UI Flow

2.1.1 SKU Declaration UI flow

2.1.2 UI Routing Component

1. info Tab – material tab
2. Info Menu – project list
3. popup- SKU declaration popup

2.1.3 Workspace Component

1. card- project filter, project list, material type, color size wise parent card, SKU declaration child card, material type (parent card) , lot (child card)
2. header- project info

2.2 Expression Table

SN	Title	Content
1.	External Dependencies	Get received info from received json, material list for specific project
2.	Business Constraints	
3.	Technical Constraints	
4.	Functions	SKU exp to SKU item, quantity
5.	Findings	
6.	Unexplored Issue	
7.	Deliverable	Declared SKU

2.3 Data Structure

```json
{
    "data": [
        {
            "TECHDISER_ID": "order1project1",
            "project": "project-1",
            "projectId": "project1",
            "poId": "order1",
            "styleNo": "SN02",
            "projectCompletionDate": "2020-10-10",
            "sentToGstockDate": "2020-10-11",
            "materials": [
                {
                    "TECHDISER_ID": "order1project1febricfebric1lot1color1size1",
                    "matCategoryID": "febric",
                    "matCategory": "febric",
                    "matTypeID": "febric1",
                    "matType": "febric 1",
                    "lotID": "lot1",
                    "lot": "lot-1",
                    "colorID": "color1",
                    "color": "Red",
                    "sizeID": "size1",
                    "size": "48 inch",
                    "materialDescription": "Silk",
                    "SKUprefix": "SKU",
                    "SKUnumber": "20,25-38",
                    "quantity": "750",
                    "storeKeepingDate": "2020-09-12",
                    "lifeTime": "20245",
                    "received": "1-15",
                    "declared": [
                        {
                            "TECHDISER_ID": "order1project1febricfebric1lot1color1size1boxSize1",
                            "SKUprefix": "SKU",
                            "boxSizeID": "boxSize1",
                            "boxSize": "3X3X3",
                            "g-SKUnumber": "10-15,18",
                            "quantity/SKU": "20"
                        },
                        {
                            "TECHDISER_ID": "order1project1febricfebric1lot1color1size1boxSize2",
                            "SKUprefix": "SKU",
                            "boxSizeID":"boxSize2",
                            "boxSize": "3X5X4",
                            "g-SKUnumber": "10-15,18",
                            "quantity/SKU": "20"
                        }
                    ]
                }
            ]
        }
    ]
}
```

2.4 Operation Flow
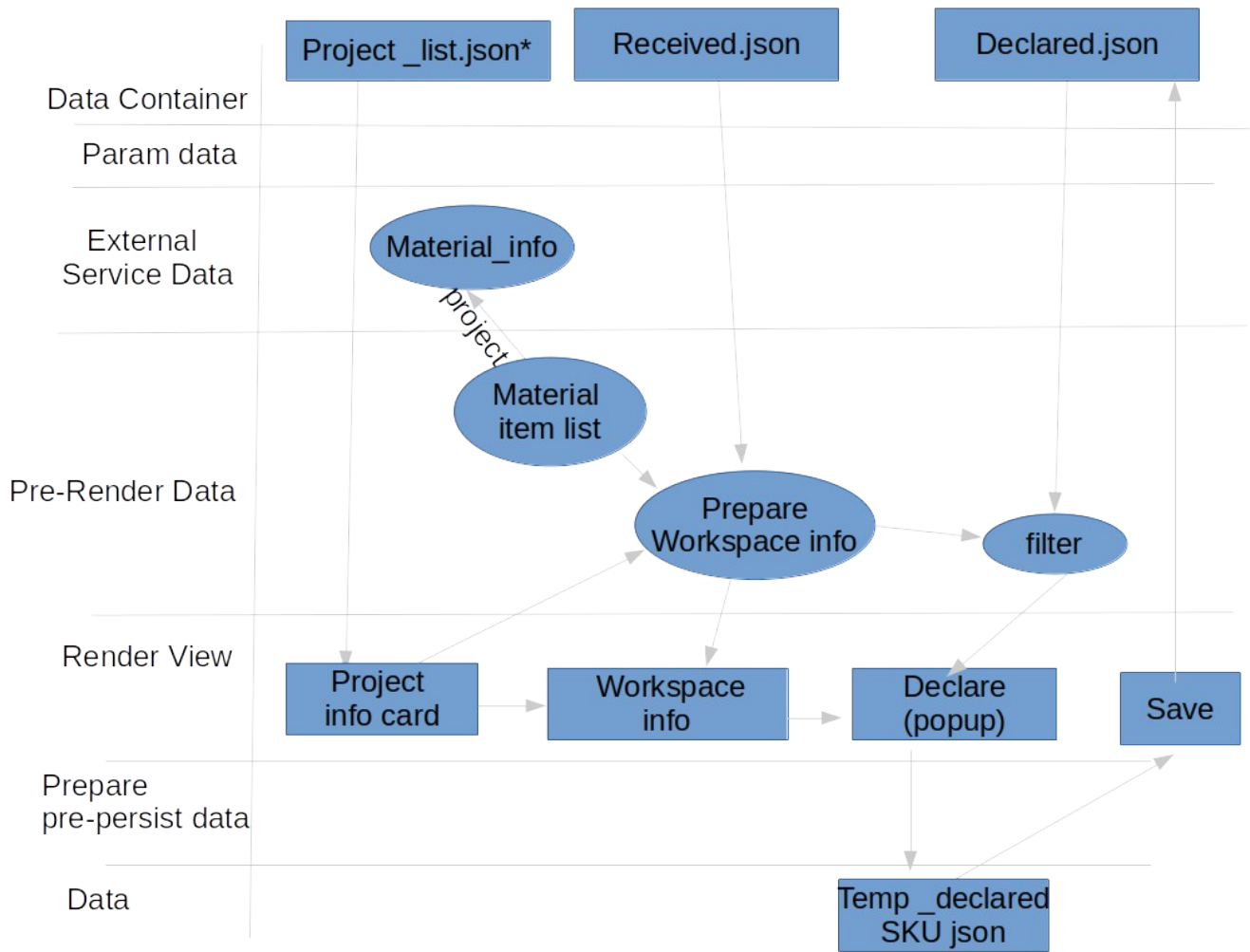
2.5 Technical Workout

View	Component	Data Fetch	Prepare View Data	Event	Data Save
Stock Declaration	Left Info Menu Project filter project list	Get G stock Project List() G-Stock received json	Prepare Project List Info Menu()	1.Search 2.select project card 5. save	
	1.search		Prepare filtered project list()		
	2. Stock declare workspace for specific project	Get project specific material list from Inquiry data service	Prepare material type for tab view()	3.select tab	
	3. Material wise lot view card (declared vs receive)	Filter for specific material	Prepare material wise lot info()	4.declare	
	5. save		Prepare declare json save data()		G-Stock declare
4. declare popup	Color Size wise Parent card Declared stock child card(Box Size)	Get previously declared stock from declared json	Prepare specific lot view()	6.add	*Temporary data preserve

Section 3 – Stock Positioning

3.1 UI Flow

3.1.1 Stock Positioning UI flow
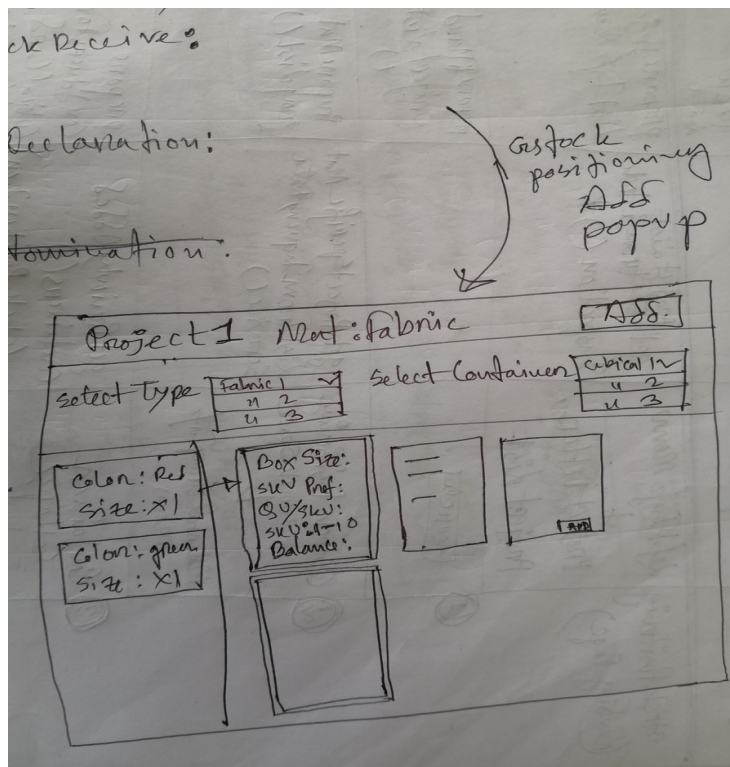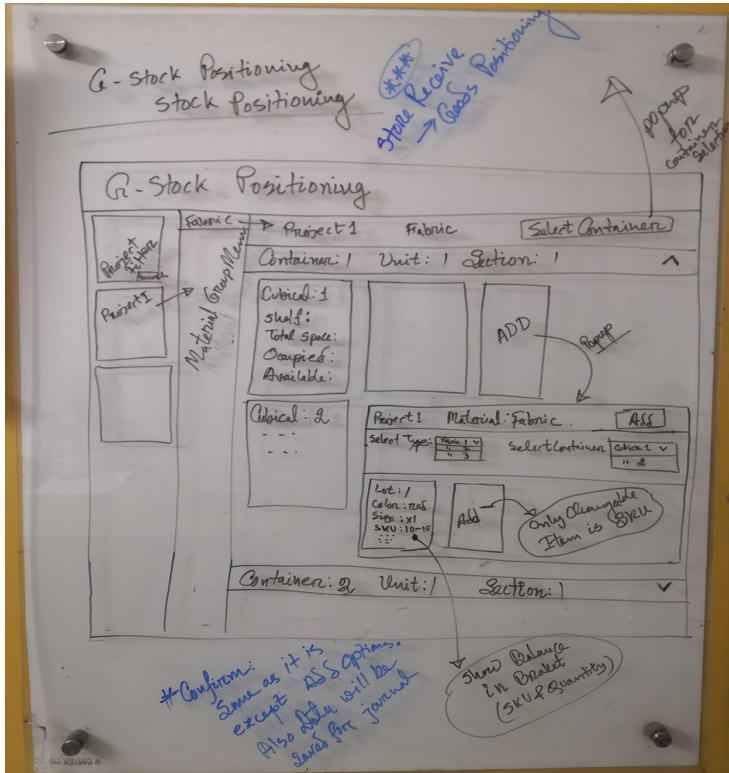
3.1.2 UI Routing Component

1. Info Menu – project list, material info, colorsize wise info menu
2. popup- select containers, stock position

3.1.3 Workspace Component

1. card- project filter, project list, cubicle, positioned stock, box size wise parent card positioned child card
2. header- project info
3. collapse- container list

3.2 Expression Table

SN	Title	Content
1.	External Dependencies	Get declared info from declared json, material list for specific project
2.	Business Constraints	
3.	Technical Constraints	
4.	Functions	SKU exp to SKU item
5.	Findings	
6.	Unexplored Issue	Container service , stock positioning in container, data save and view from container service
7.	Deliverable	Position stock

3.3 Data Structure

```json
{
    "data": [
        {
            "TECHDISER_ID": "order1project1",
            "project": "project-1",
            "projectId": "project1",
            "poId": "order1",
            "styleNo": "SN02",
            "projectCompletionDate": "2020-10-10",
            "sentToGstockDate": "2020-10-11",
            "materials": [
                {
                    "TECHDISER_ID": "order1project1febricfebric1lot1color1size1",
                    "matCategoryID": "febric",
                    "matCategory": "febric",
                    "matTypeID": "febric1",
                    "matType": "febric 1",
                    "lotID": "lot1",
                    "lot": "lot-1",
                    "colorID": "color1",
                    "color": "Red",
                    "sizeID": "size1",
                    "size": "48 inch",
                    "materialDescription": "Silk",
                    "SKUprefix": "SKU",
                    "SKUnumber": "20,25-38",
                    "quantity": "750",
                    "storeKeepingDate": "2020-09-12",
                    "lifeTime": "20245",
                    "received": "1-15",
                    "declared": [
                        {
                            "TECHDISER_ID": "order1project1febricfebric1lot1color1size1boxSize1",
                            "SKUprefix": "SKU",
                            "boxSizeID": "boxSize1",
                            "boxSize": "3X3X3",
                            "g-SKUnumber": "10-15,18",
                            "quantity/SKU": "20",
                            "positioning": [
                                {
                                    "containerID": "container1",
                                    "positionedSKUs": "1-5"
                                },
                                {
                                    "containerID": "container1",
                                    "positionedSKUs": "6-10"
                                }
                            ]
                        },
                        {
                            "TECHDISER_ID": "order1project1febricfebric1lot1color1size1boxSize2",
                            "SKUprefix": "SKU",
                            "boxSizeID": "boxSize2",
                            "boxSize": "3X5X4",
                            "g-SKUnumber": "10-15,18",
                            "quantity/SKU": "20"
                        }
                    ]
                }
            ]
        }
    ]
}
```

3.4 Operation Flow

Data Container

Param data

External
Service Data

Pre-Render Data

Render View

Prepare
pre-persist data

Project _list.json*

declared.json

Position..json

Material_info

Container
info

Project info

Material
item list

Prepare
Workspace info

Prepare
container
list

Filter by specific material and cubicle

Project
info card

material
Info menu

filter

Workspace
Specific project
and material

Select
Container
popup

Stock
position
popup

*Temp
Data save

3.5 Technical Workout

View	Component	Data Fetch	Prepare View Data	Event	Data Save
Stock Receive (Landing Page)	Left Info Menu Project filter project list	GetGstock ProjectList() from G-stock inspection*	PrepareProjectList InfoMenu()	1.Search 2.select project card 9. save	
	1.search		Prepare filtered project list()		
	2.Stock position workspace for specific project Material group Info menu	Get project specific material list from Inquiry data service	Prepare material type for info menu()	3.select Mat type	
	3. container collapsible list Cubicle card occupied item card	GetPreviously addedSKU in container()	Prepare containers() cubicle info and occupied info	4. select container 5. ADD	
4. Select container popup	Collapsible unit,section and containers	Get container def from container service	Prepare container list	ok	*added as collapse in workspace
5. Stock positioning popup	Material and cubicle dropdown	Get cubicle and material types *inspection.json	prepareMatContai nerList	6.Select mat and container 7.add → temporary data save	
	6. colorSize wise infoMenu	Get color size wise specific Material *inspection json	PrepareInfo Menu	7. select color&size	
	7.BoxSize wise inspected stock card 8.Stock positioning child card	Get box size wise specific material inspection .json getPreviously positioned stock position.json	Prepare stock positioning view data	Add generate a new positioning child card	
	9. save		Prepare position json save data		G-stock position.json

Schedule

SN	Sub-Goals	Week 1	Week 2	Week 3
1.	Stock receive (5 days)	√		
2.	SKU declare (4 days)		√	
3.	Stock position (7 days)		√	√