

Flux

●	Context
○	Rows
●	1 row per job
✓	Columns
○	Référence
○	Text
●	45113 A
●	This reference is actually for the order, it is manipulated (usually appended) by the users to manage what amounts to order lines and for a given order line a part.
○	Client
○	Text
●	Fibois Grand Est
○	Planifié
○	Booléan
●	True if the whole action path of the job has been scheduled
○	Commentaires
●	Text
○	Description
○	Text
●	Cartes de vœux - 9,9 x 21 cm - off 350g - 350 ex
○	Envoi BAT
●	Date at which the BAT was sent to the client
○	Text
●	03-déc-25
●	+ reserved values : Attente fichier; Pas de BAT
○	Retour BAT
●	Date at which the BAT approval was received from the client
○	Text
●	03-déc-25
○	Sortie d'atelier (deadline)
●	Date at which the job MUST leave the factory
○	Achats papiers
○	Select simple
○	Possible values
●	Stock
●	A commander
●	Commandé
●	Reçu
●	When value switches to « Commandé », we store the date and time of the commande
○	Papier - type et grammage
○	Text
●	CB300
○	Papier - format
○	Text
●	63x88
○	Plaques
○	Select simple
○	Possible values
●	Todo
●	Done
○	Action path
○	Action definition syntax examples
○	Komori 20+40
●	Machine = Komori
●	Setup = 20 minutes
●	Run = 40 minutes
○	Komori 20+40 « vernis »
●	Machine = Komori
●	Setup = 20 minutes
●	Run = 40 minutes
●	Comment = « vernis »
○	Massicot 15
●	Machine = Massicot
●	Run = 15 minutes
○	Conditionnement « au mieux » 15
●	« Machine » = Conditionnement
●	Comment = « Au mieux »
○	Outsourced action syntax examples
○	ST Clément Pelliculage 2JO
●	ST = is outsourced
●	Clément = outsourcing provider
●	Pelliculage = action outsourced
●	2JO = duration 2 open days
○	n actions are defined
●	Actions follow a single straight sequence
○	Brochures are considered inseparable
●	If the user wants to separate them he must create 1 row per separated element
○	Pré-requis
○	Required job reference
●	Select multiple with existing job references
○	Comments
○	Back and forth messages that are logged separately about a given job
●	With date and author

Gantt

○	Constraints
●	BAT availability or « Pas de BAT »
●	Action precedence inside a job
●	Job precedence among jobs
○	Machine availability
○	Machines have operating schedules
●	Komori is operating MO-FRI 00:00-05:00 and 06:00-00:00
●	A task that overlaps a machine operating schedule is lengthened/divided
○	Machine order
●	We should be able to easily defined the order in which the machines appear as columns (I have an idea but it might change sometime and not cause any issue)
○	Machine category
●	A machine belongs to a machine category (for example « offset printing press »)
○	Each machine category can have a list of time-saving potential similarities between consecutive jobs
●	For example « offset printing press » has : same paper-type, same paper-size, same paper-weight, same inking
○	Machine capacity
●	Machines have a capacity of 1 except for « machines » that are actually outsourced which have an unlimited capacity and therefore can have multiple tiles on a given timeslot
○	Machines belong to machine groups
●	A machine group has a maximum simultaneously running machine count
○	UI ideas
○	The screen is divided into 3 main areas
○	Left
○	Two colums
●	Column 1 : list of jobs
○	Column 2 : list of actions for the job that is highlighted in column 1
●	Possibility to add an action
○	Center
○	We have one column for each machine with tiles in each column for the tasks that are assigned to the machine on a given timeslot
●	Machine unavailability is showed visually
●	The tiles stretch « across » machine unavailability times and take on a different appearance for the time periods they overlap machine unavailability time slots.
○	Right
○	General and contextual information : a single column divided in two zones horizontally
○	Late jobs
●	List of jobs that have a planned departure date that exceeds the configured departure date
○	Job actions
●	The list of all actions and time-frames for the job the highlighted tile belongs to (or the job highlighted in the left column)
○	Drag and drop behaviour
●	The tiles corresponding to job actions are placed by a drag and drop process
○	If an attempted drag would result in a precedence rule violation the UI reacts as if the tile had been dragged to the earliest or latest (whichever is closest to the user intended drop location) possible timeslot
●	Drag and dropping while holding alt allows the user to bypass this safeguard
○	Precedence rule visual impact
●	Tiles that break the precedence rules are shown with a red halo effect
●	Actions that break precedence rules are listed right after the late jobs in the right area of the screen.
●	Snap grid unit should be 30 minutes
●	Setup and run should be visually represented in a given tile but the tile should still be unsplittable and « measure » the sum of setup and run
●	Scrolling inside the center area should be handled through mouse/trackpad behavior (nothing special) but there should be a keyboard shortcut that is the equivalent of « show me the machine columns to the right of those I currently see ».
●	For machines with capacity >1, the UI should behave like usual calendar app UI behaves when more than one meeting is scheduled on a given timeslot : it splits the columns into the required number of subcolumns.
●	Action tiles of a given job can only be scheduled by drag and drop to the desired timeslot
●	In a tile there are two visual shortcuts that allow to switch the tile's position with the one before or after it.
○	In the action list sub column of the left area of the ui
●	The actions are represented as regular tiles with their real durations and they can be reordered at will (which will then influence precedence).
○	If a tile is placed on the center area it appears with lower opacity here and a « recall tile » button appears on hover.
●	Let's imagine the user has placed 3 consecutive tiles in the schedule and he recalls the middle one, only the middle is recalled
●	Time is represented vertically
●	Each job gets assigned a random color for its tiles
●	The center area has a dropdown that allows the user to jump to a given timeslot
●	The left area has a text filter that allows to search for specific job or jobs
●	The UI shows a floating « branch » button that when clicked allows the user to duplicate the currently displayed schedule and edit it separately regardless of any constraint.
○	The user has access to a list of all schedules and can open any schedule by clicking on it
●	There is a « create branch » on each schedule line in the listed schedules
●	A dropdown allow the user to select the unique « PROD » schedule (similar in principle to a « commit/push » but there can be only one PROD schedule at a time)
○	When a schedule is created
●	A modal appears with a required « name » and an optional « comments » field
●	A schedule is saved as the user edits it (no explicit save button)
○	A job tile display the following information
○	Visual cues
●	Setup/Run duration differentiation
○	For each machine category's potential time-saving similarities that are met between a job and its previous job, we show 1 filled out or hollowed circle based on the number of fulfilled similarities
●	These circles are displayed vertically « between » the tiles of consecutive jobs, overlapping both tiles equally.
○	Written info
●	Reference
●	Job description
●	Start time
●	End time
●	Timeslots that exceed maximum machine count for at least one machine group appear visually highlighted
○	Job creation starts by clicking on « add job » in the first column of the left area
●	A job creation modal appears with the expected fields
●	The actions are created in a textarea by writing in a textarea that has autocomplete and basic syntax highlighting