

# Playbook

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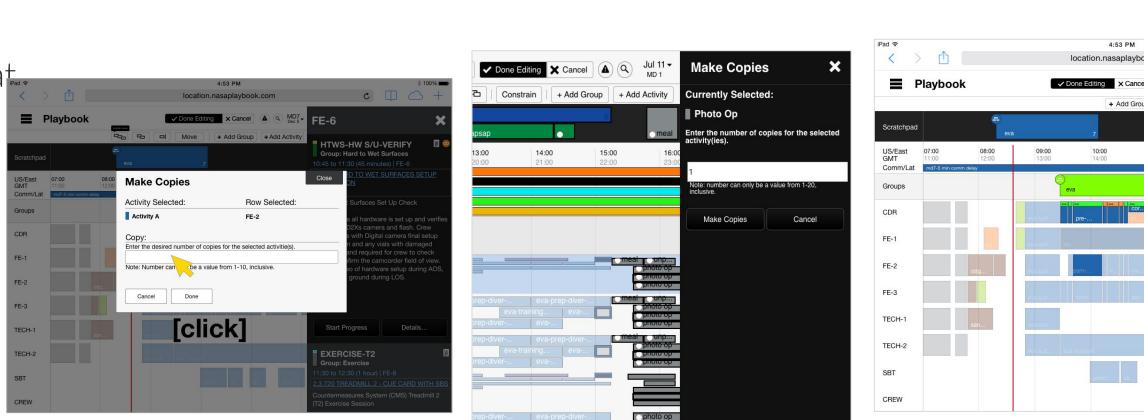
SPIFe Summer Internship - ARC TH

# Background

Playbook is a mission planning and scheduling tool. It is used for all sorts of missions, such as those located at the bottom of the ocean in a pressurized habitat or in the International Space Station. With Playbook, future astronauts could have greater ability and independence to manage their own schedule during a mission. Playbook is still in development as the next generation of NASA's planning and scheduling software tools.

# Changing Action Process Flow

- One of the key changes made was figuring out what steps should be taken to make a certain action happen. We tried:
- pop-up window
- -activity bar
- -activity icons in a tray



Pop-up

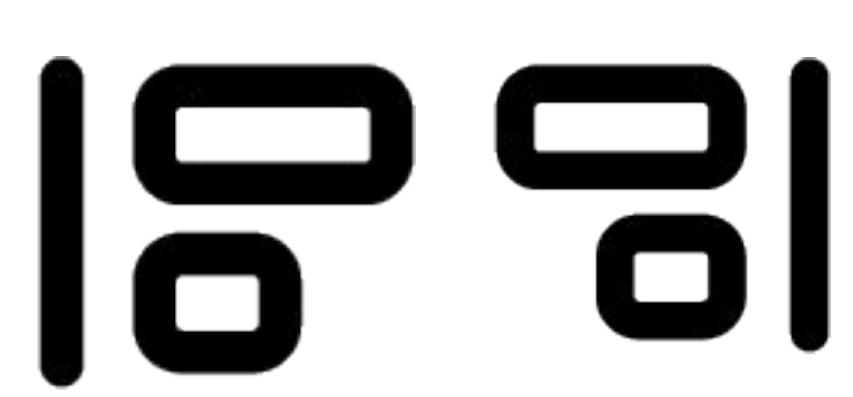
Activity Bar

Activity Tray

# Non-UI Heavy Features

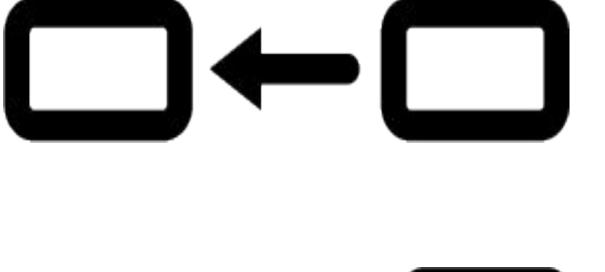
# Align (**⊕+A/D)**

Right: When selecting multiple activities, this feature finds the earliest start time and sets all activities to start at that time
Left Align: When selecting multiple activities, this features finds the latest end time and sets all activities to end at that time



#### Compress ( $^{\circ}+\leftarrow/\rightarrow$ )

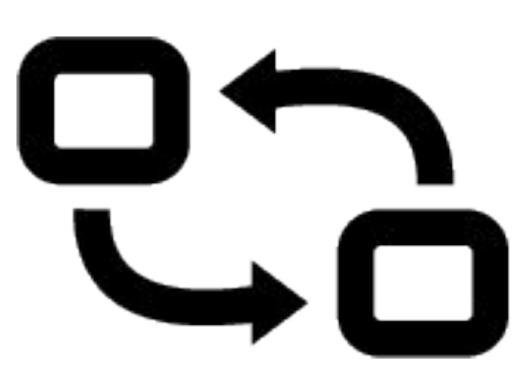
- Compress Left: Users can push all selected activities to the left and eliminate time gaps between them.
- Compress Right: Users can push all selected activities to the right and eliminate time gaps between them.





#### Swap (**⊕+X)**

-Users can swap the location of two activities



#### Slice (**+S**)

-Slice-N-Dice feature gives independence to each copy of the activity and allows you to move individual copies without moving the others



## Project Goals + Considerations

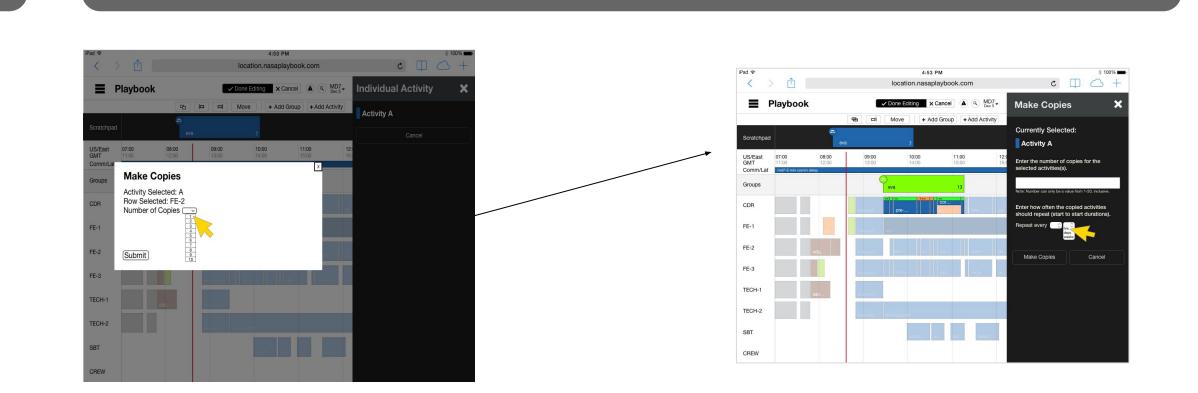
- -Design and implement drudgery savings features
- -Define the interaction flow for the copy and distribute activities functions
- -Create user interfaces that are consistent with Playbook design language

## Make Copies (⊕+C)

Dev

- Implemented new UI for Action view

- When user enters the number of copies into text field it creates that many copies of the activity.

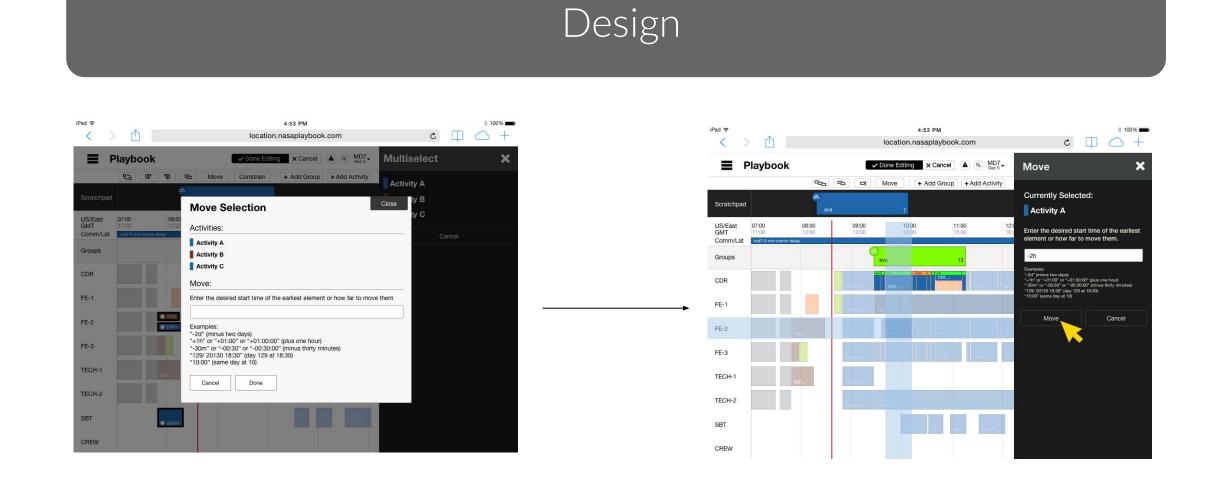


Design

## Move (**⊕+M**)

Dev

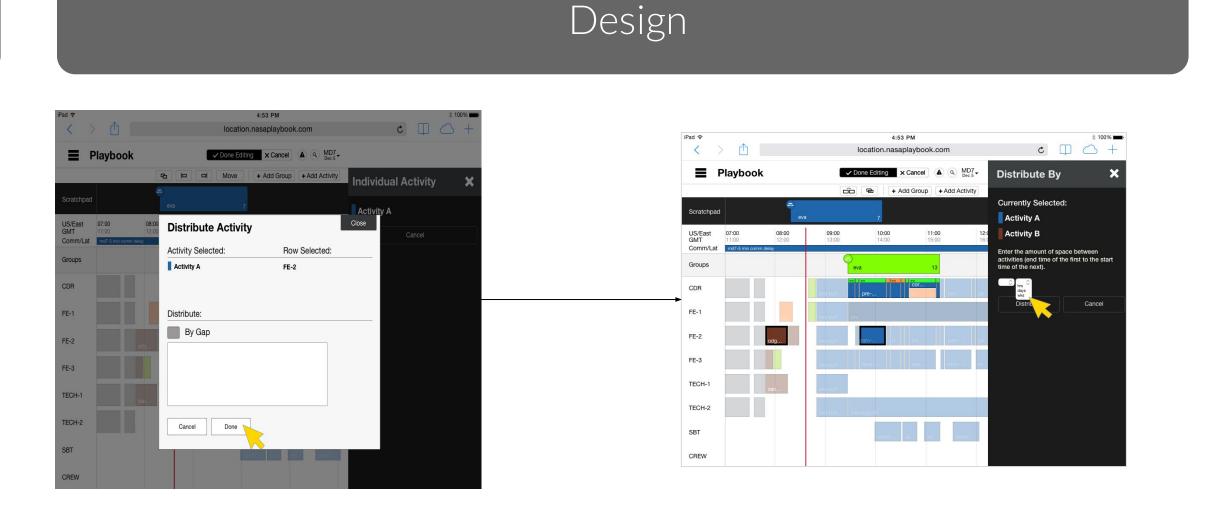
- Users can enter various commands to move an activity or group of activities to a specific time



# Distribute (**⊕+Space**)

Dev

- Users can determine the time gap between multiple activities and set them to be minutes, hours, days, or weeks apart



## Key Takeaways

- It's important to create a structure (for the code and design) that can be generalized for all actions
- Being able to scale these actions for multi-selected items is crucial