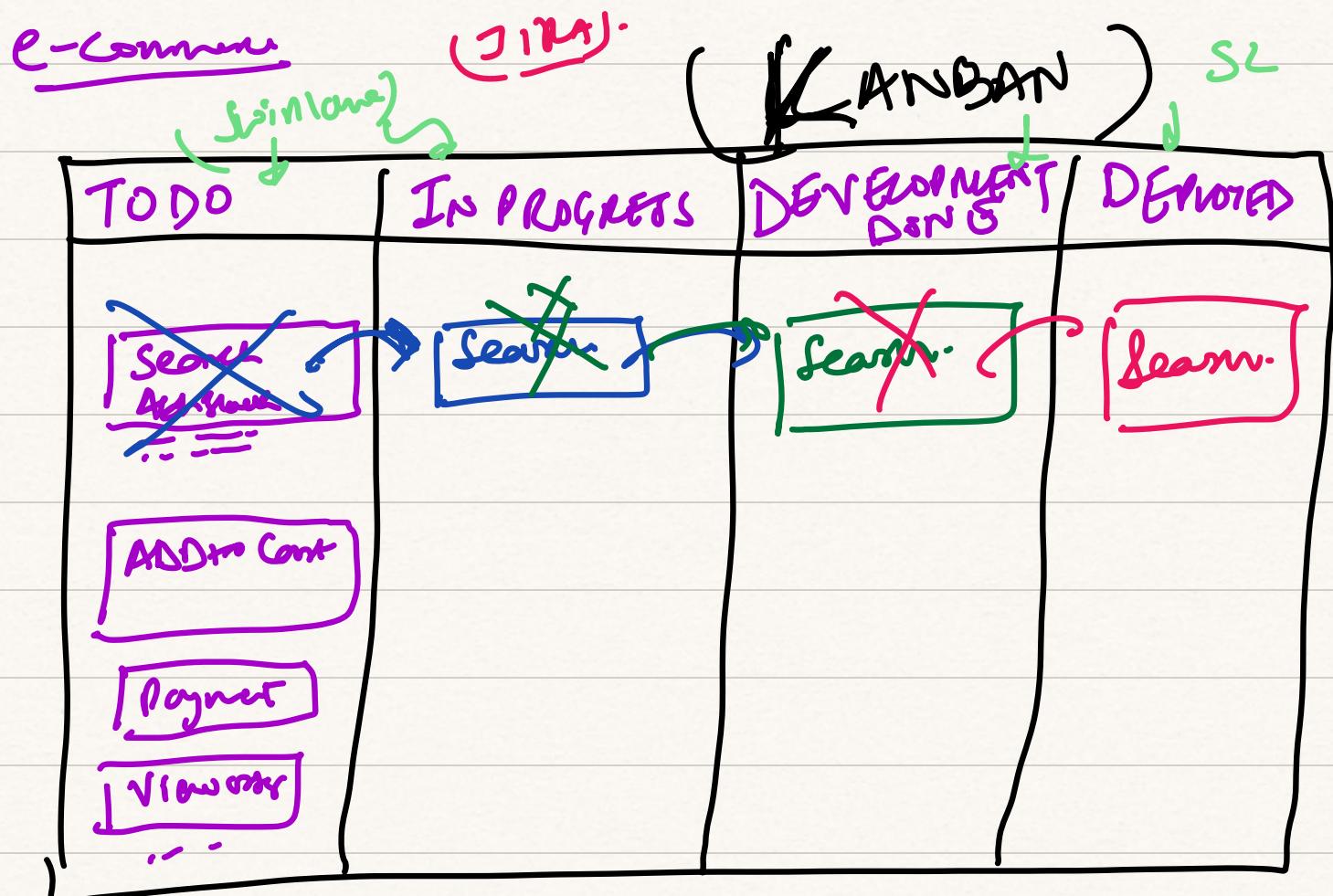


# 18. KANBAN BOARD

## Agenda :

- Description of the project (across 4 classes)
- Requirements & Features of the project



Kanban →

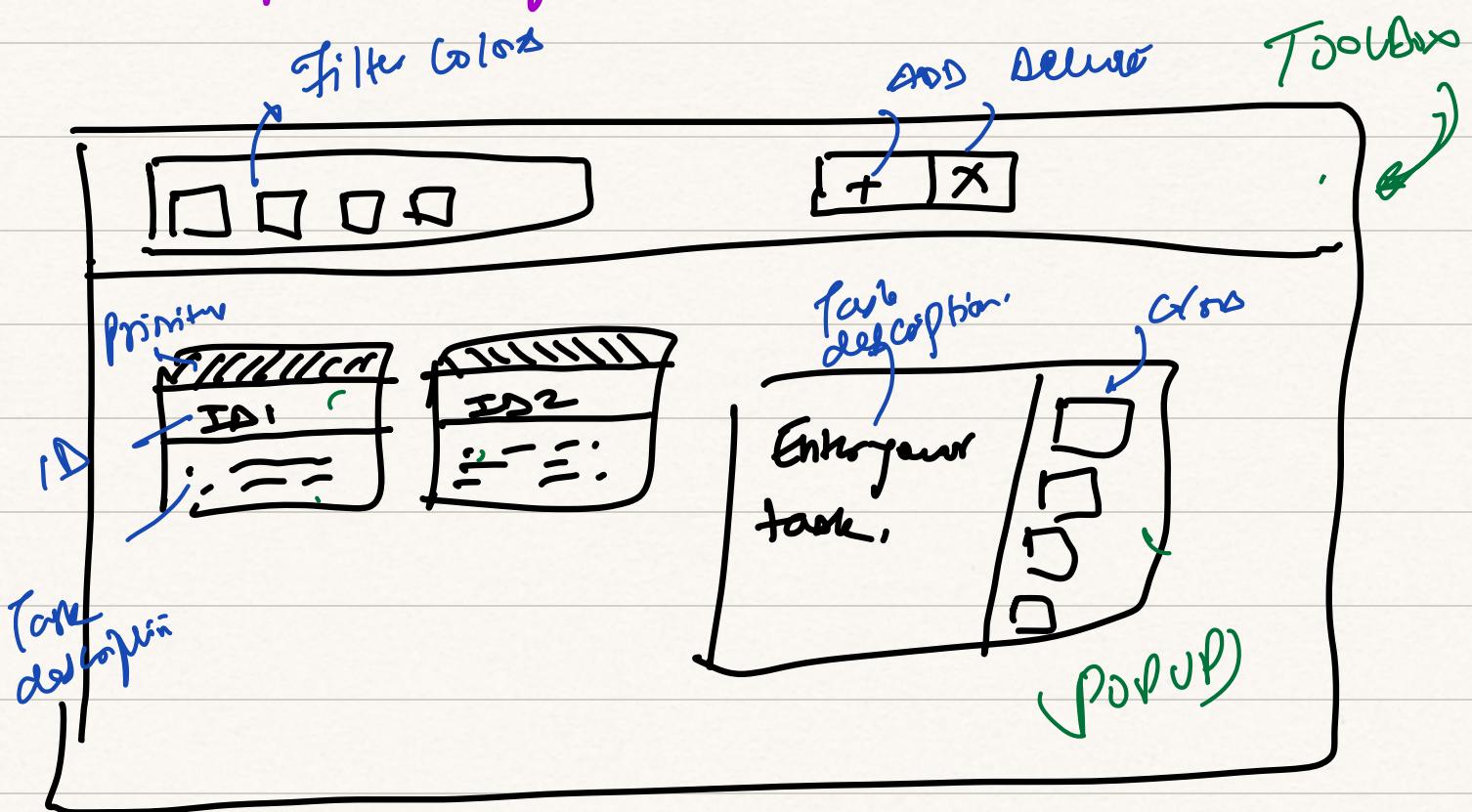
- ✓ Task management Applications
- ✓ Enhances productivity

- ✓ Gives tracking info to stakeholders.
- ✓ Visual format for organizing tasks.
  - Stage / priority / Assignee / description
- Estimate of task

## # FEATURES of the project :

- 0) Board / UI Elements creation.
- 1) Dynamic task addition
- 2) Filter the task based on Color coding
- 3) Edit task descriptions \* (lock/unlock).
- 4) On refresh data persist [Local STORAGE]
- 5) Task deletion
- 6) Change priority color of a task
- 7) Unique task identification [id for each task]
- 8) Responsive design / UX should be good.

## \* Wireframe of the project :



## Color Priorities

- Pink → TODO (task to be done)
- Green → In Progress
- Blue → TO Be Validated (Dev Done)
- Black → DONE / DEPLOYED.

## # Class 2 :

Agenda :

- Model Popup with toggle
- Ticket Generation
- Adding task, generate ID, colour to generated ticket
- Ticket Removal.

# Model : Show / hide

flag

< boolean >

Show Popup

true

false

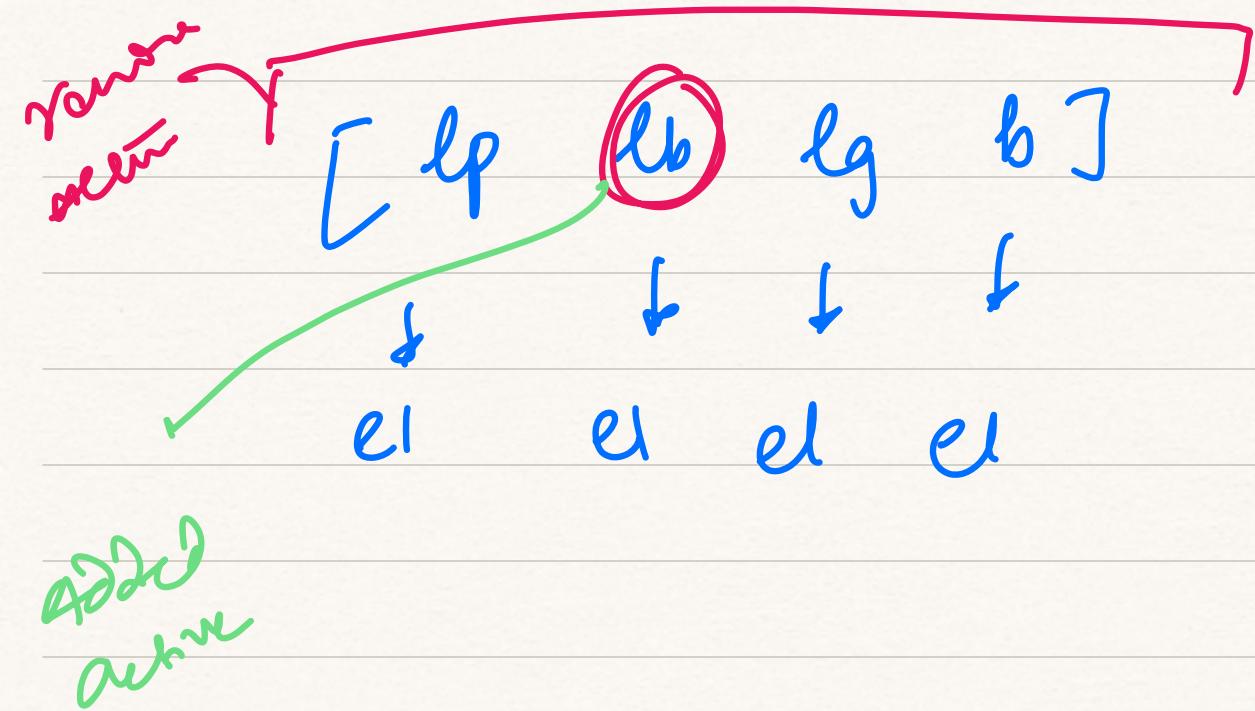


x

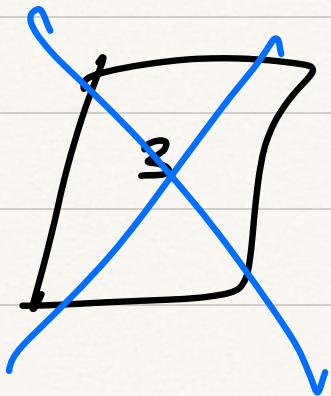
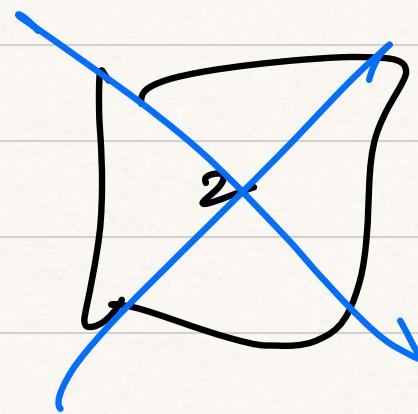
(by default).

Requirement : (To add task color, description, ID)

- Choose a color & that color should be applied to the generated ticket.
- Generate & add IDs
- Task description ✓



1



4

5

$5+1=6$

2)

1

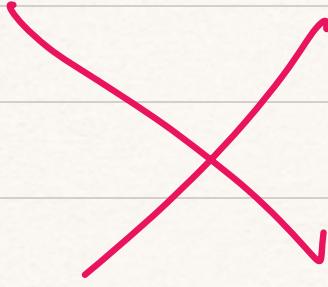
9

A black irregular shape is labeled '5'. It is enclosed within a red circle.

6

A blue circle contains a plus sign (+).

A black irregular shape is labeled '4+1=5'. Inside it is a blue circle containing a plus sign (+). This entire structure is enclosed within a red circle.



# Next Class (17/9/24)

- Handle lock
- Filter task on color
- \* Implement Local Storage .

## \* KANBAN - 3 :

locking mechanism

- ✓ Color change of priority in a task
- Filtering of color in a task.
- .



• state change •

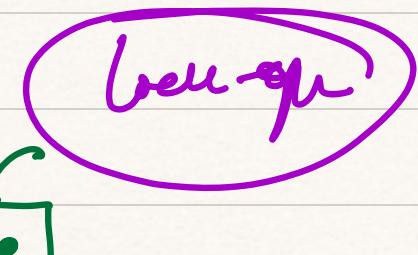
## # Locking mechanism

show/hide

① Lock  $\leftrightarrow$  unlock

icon

② Clicking unlock , should edit the task box.



for-lock

~~for-unlock~~  
for-unlock

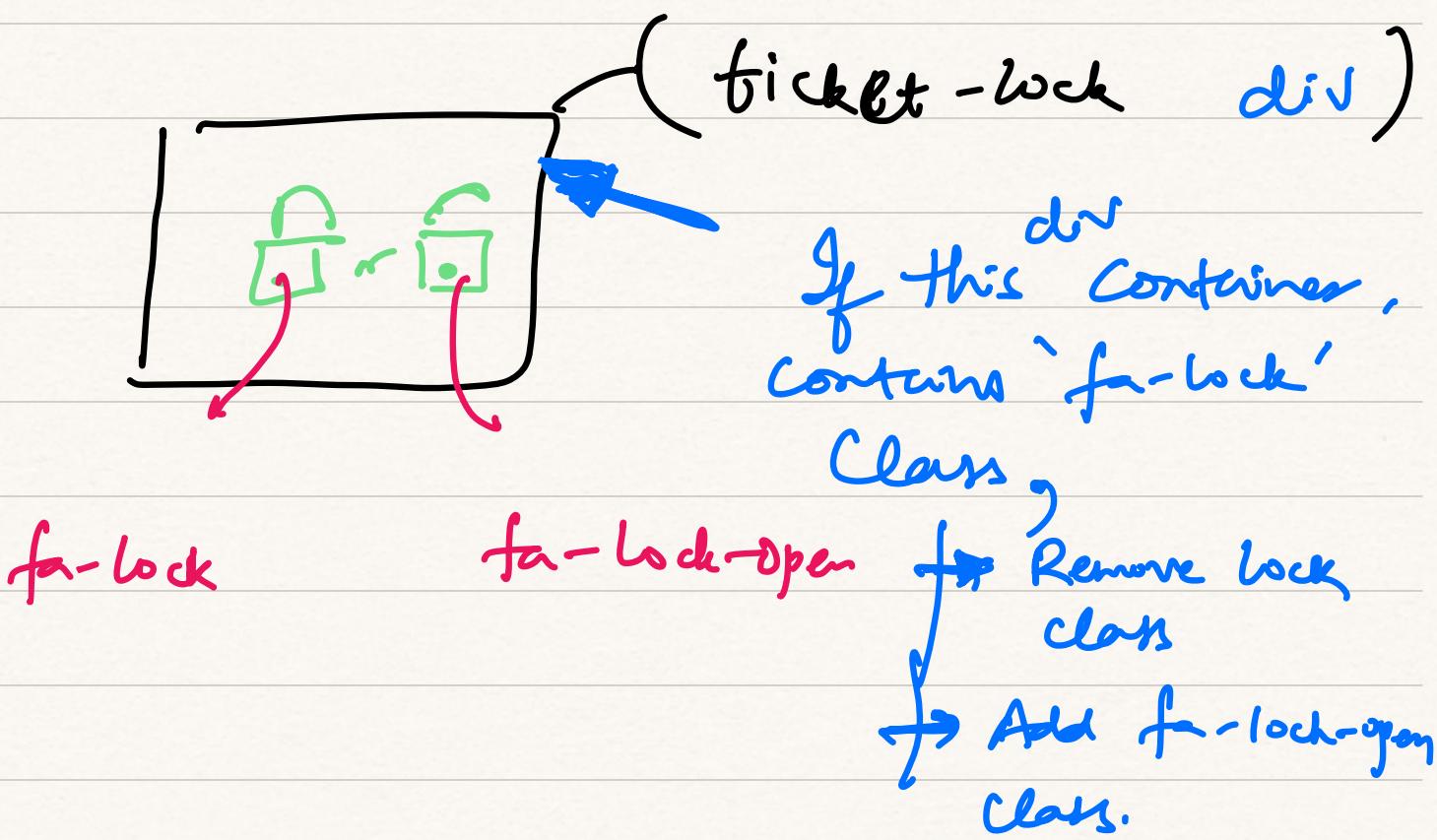
Ways to impl.

① Flag Variable

if (lockOpen)      true → fa-unlock  
                      false → fa-lock

②

Add dynamic CSS:



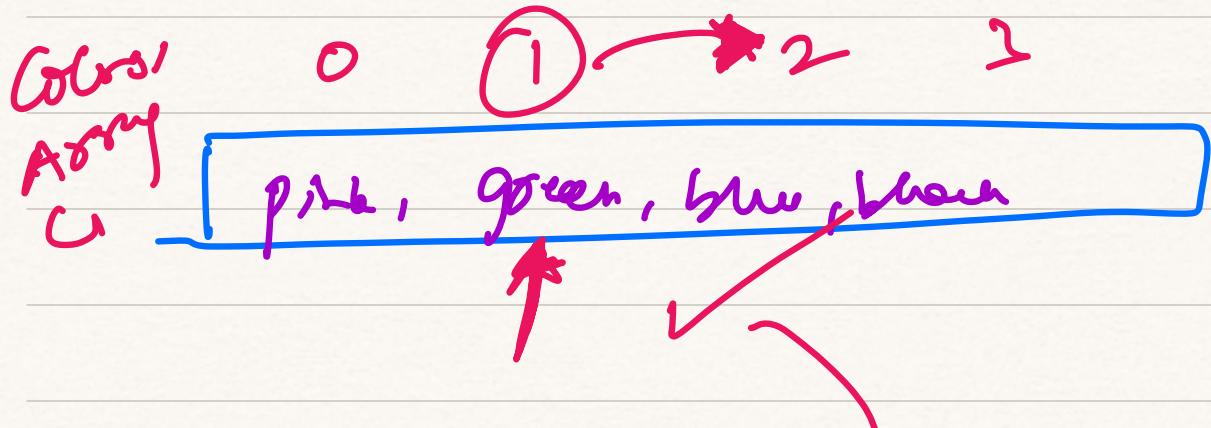
OR

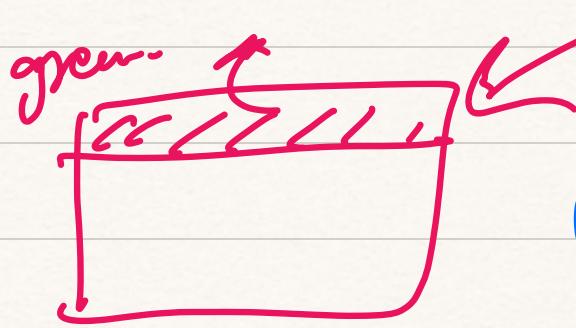
if div container has unlock class,  
→ Remove unlock/gm class  
→ Add lock class.

\* Contenteditable attribute Makes anything in HTML Editable.

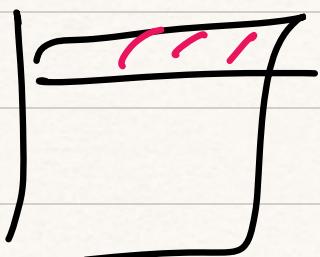
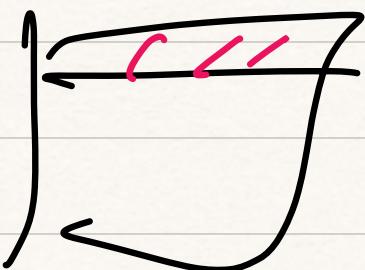
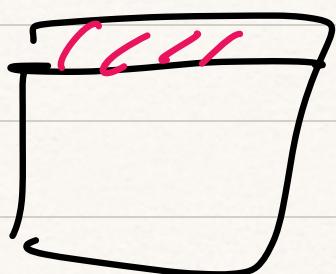
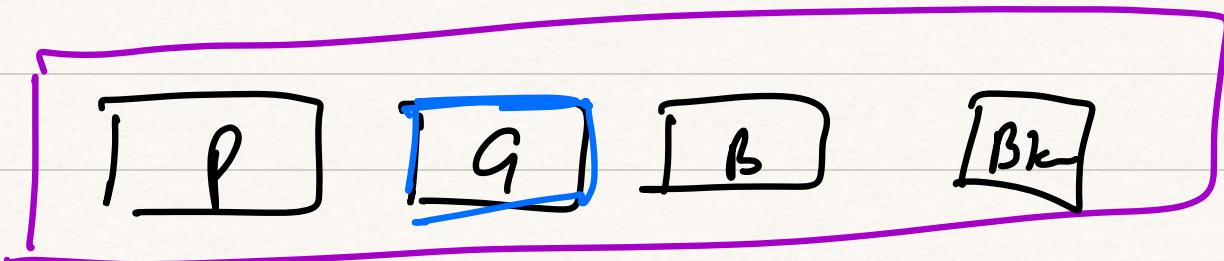
or

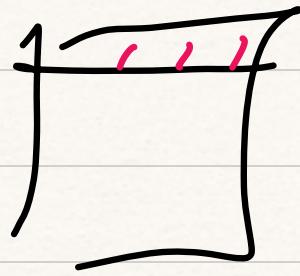
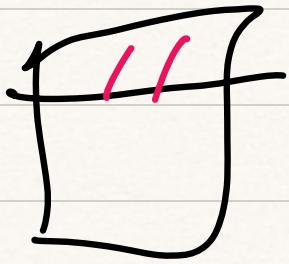
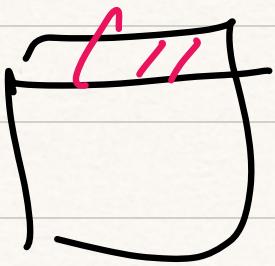
\* Not all properties in HTML can be edited.



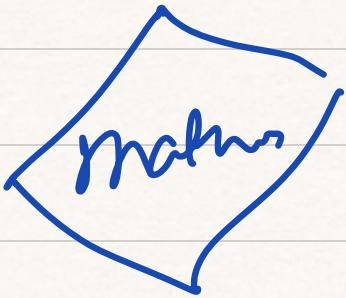


- ① Find current color which is clicked
- ② See its index in colors array
- ③ Find next color ( $\text{index} + 1$ )
- ④ Update stack with that color.





colors array methods  
+ ticket



hide  
ticket

show

ticket

(display  
block),

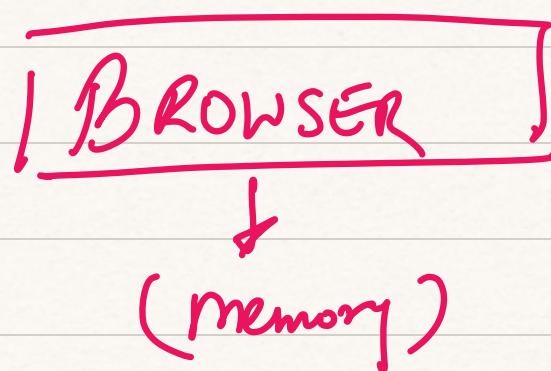
(display  
none)

## \* KANBAN - 4 :

### Agenda :

- + Local Storage
- + Deploying our code to github pages
- Leftover final touches as well.

## \* Local storage :



- Web Storage mechanism that allows websites to store & access data right from the browser
- No expiry date. (manually clear data)

Window

- Data persists even after browser is closed.

~~Browser/Web Storage~~ → Storing data locally within a browser.

## Storage Mechanisms in browser

① Local Storage

set by server

(4KB)

(Cookies)



(transfer data)

② Session Storage

③ Indexed DB

LS

5MB

- No expiry data
- User data, that we know won't change very often.

AMAZON.in AMAZON.in

TAB1 TAB2

(LS1)

SS

5MB

- When browser window is closed, SS gets deleted

- Banking transactions.

- Different for different tabs in browser

TAB1

↓

TAB2

↓

SS2

## # Usage of CS

- ✓ Create
- ✓ Read
- ✓ Update
- ✓ Delete / Clear



- Set Item (Add / Create)

localStorage.setItem('key', 'value') .

- Get Item (Read)

localStorage.getItem('key'); // 'value'

- Delete Item

localStorage.removeItem('key')

• Delete / Clear all LS .

localStorage . clear () ;

## \* Constraints / Limitations of LS

① Storage limit ( $\checkmark$  5 - 10 MB)

② Synchronous → LS operations will block the main thread while any operation is performed.  
- Performance may be affected.

③ Security -  
- NO server involved  
- Everything happens locally in browser [ JS ]

- XSS [ Cross Site Scripting ]  
- We don't save sensitive

info in LS. (e.g. user session token).

- ④ No expiry → Manually clear it.
- ⑤ Both key/Value have to be strings.  
(Can't save object/Array)

## # LS in KANBAN



(localStorage, letItem(k,v))

- 1) Create Ticket → Save tickets  
in LS
- 2) Update ticket →
  - [ getItem  
letItem ]
  - { Color  
task }
- 3) Delete ticket → Remove ticket  
from LS
  - [ removeItem ]

flicket Army

[ {, }, {}, ~ ]

CreateList

{  
id:  
color  
task

newTask  
; will

push to

[ ]

CreateList()

{  
id  
color  
task

flicket  
Army

[ == ]

g

UI

LS → [ { }, { }, ]

REFRESH / Clear Display

⊕

↓



init( ) → Read from LS

NO  
~~CAT~~

YES

for each entry  
show it to

the UI.

Retrieve LS Tickets []

{ } → CreateTicket()

Show ~~Paint~~ it to HTML