

04

Week 40

SATURDAY

Day (277-088)

OCTOBER

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	25	27	28	29	30	31					

Appointments

09 ~~# of~~

Episode -09 - Optimizing- over - app.

10

Single Responsibility Principle

11

If you have function, class or piece of code any single identity that should have a single responsibility.

12

Each component should have a single responsibility.

13

Our single responsibility for Header is displaying header onto the page.

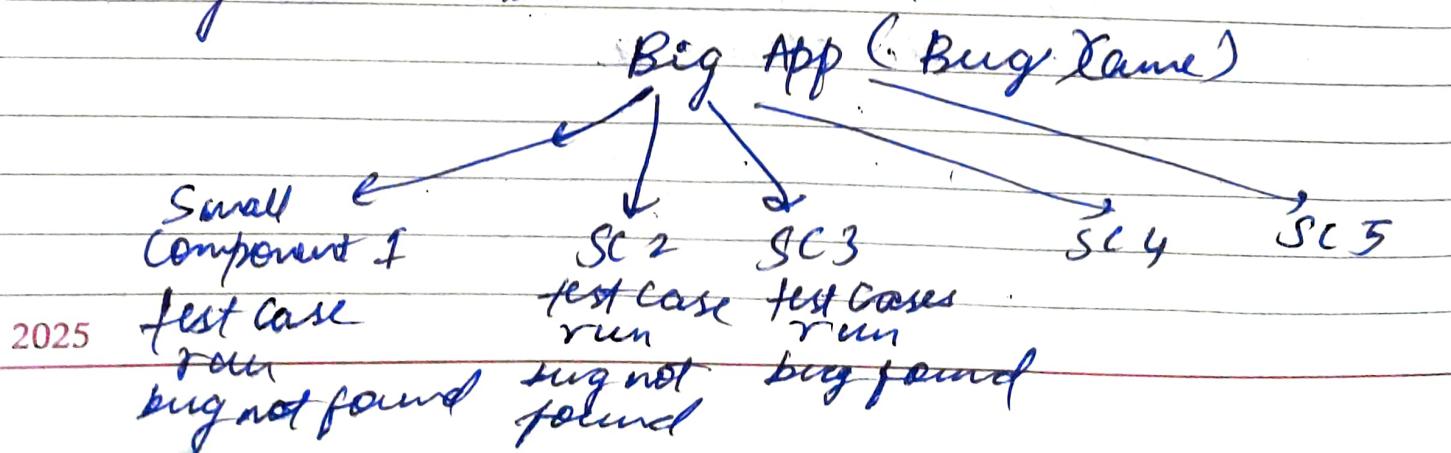
14

Our single responsibility for Restaurant Card and Restaurant Menu is to display the res card and res menu respectively.

15

16

This helps in Modularity :- breaking components into small components that help in testing so our big app have a bug that small component or module will catch it in test case so it is easily detectable.



2025

OCTOBER

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MONDAY

Week 41

Day (279-086)

06

Appointments So, we change only SC3

09 This make easy to find bug in our small components and also changes in code which makes it easily detectable and maintainable.

11

Modularity features:

12 More reusable

More maintainable

13 More testable.

Custom Hooks

special

15 Hooks are functions that provided by react that let function components use React features such as state and lifecycle behaviour.

16 React features such as state and lifecycle behaviour.

17 useState → manage state

useEffect - run side effects

useContext - consume context

We have a RestaurantMenu component which has two responsibilities : - fetch the data & display it, but we will create a custom hook for fetching the menu data so the only RestaurantMenu is to display it.

NOVEMBER

DECEMBER

2025

07

TUESDAY

Week 41

Day (280-085)

OCTOBER

S	O	M	T	W	F	S	S	M	T	W	F	S
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	25	26	27	28	29	30	31					

Appointments

Industry standard for custom hook

- 09 Create that file you hook in while
and always create a separate file
10 for separate hook and create a
name with 'use' like
11 'useRestaurantMenu' as exact understand
that use means a hook

12

13 const RestaurantMenu = (restId) => {
 // code

14

return restInfo;

15 }

16 export default useRestaurantMenu.

17 This helps in testing as I have
to check the fetching hook if there
is no data to display and if there
is error in displaying we need to
check RestaurantMenu only.

Online / offline feature

Basics of creating of custom hook.

Finalizing the contract.

- What we need in the hook?
- 2025 • What should it return?

Bundler makes bundle all the files of your code in one file.

OCTOBER

	S	M	T	W	F	S	S
01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30		

WEDNESDAY

Week 41

Day (281-084)

08

Appointments

- 09 we will use event listener called window.
online' event listener. we need to add this
10 only once and we will use useEffect for
adding only once.

- 11 We can simulate offline behaviour via
12 browser by going into N/W tab and
then make the connection to offline.

13
⇒ Optimizing the app.

- 14 Parcel is a bundler which bundles all
15 the files of your code in one js file.

- ⇒ Cons of making 1 JS file.
16 If we bundle a large project into one
JS file, the size of the file will increase
17 a lot.

- ⇒ How to optimize this?
So, we have 2 problems
• we do not want all the files to load on
browser.
• we do not want that all the files to load
in a single file.

So, we will make smaller bundles of this
file. This process is known as
Dynamic bundling or code splitting or
chunking or lazy loading or on-demand
loading, etc.

NOVEMBER

DECEMBER

2025

09

THURSDAY

Week 41

Day (282-083)

OCTOBER

S	M	T	W	T	F	S	S	M	T	W	F	S
C	01	02	03	04	05	06	07	08	09	10	11	12
T	13	14	15	16	17	18	19	20	21	22	23	24
S	25	26	27	28	29	30	31					

Appointments

09 How to & when to make smaller bundles

10 Logical separation of bundles so that it has enough code for a single big feature of website.

11 For eg:- makemytrip can make bundle of flight ticket, another for hotels, another for trains, etc. so that we have small application in a single application.

12 Just assume we have also grocery which has many components inside it so, we make two bundle one for grocery & one for food delivery.

13 We will import our grocery via lazy loading. Initially our code will not have grocery code when we go to grocery page then only we load grocery page.

14 We will import grocery like this for lazy loading.
import {lazy} from "react"

15 cons Grocery = lazy(() => import("./components/grocery"));

OCTOBER

S	M	T	W	T	F	S	S
01	02	03	04	05	06	07	08
09	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30		

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FRIDAY

Week 41

Day (283-082)

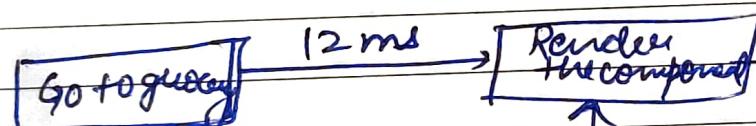
Appointments

When we look into New tab now
the grocery will have its own js file
other bundle file will be different.

10

so adding only that line will throw
an error as react will try to load the
component but the code is not there
so it will throw error. as the file
will load but it doesn't have the code

13



14

so error. code needs more but
react is very fast so it load the
component before the code came.
So, we will use 'Suspense' keyword here

17

import {Suspense} from "react"

<Suspense><Grocery/></Suspense/>

fallback = {<Shimmer />}

So, until the code comes react needs
to load something, we pass it
in fallback and we can pass any
JSX piece in it.

NOVEMBER

DECEMBER

2025

11

SATURDAY

Week 41

Day (284-081)

OCTOBER

S	M	T	W	T	F	S	M	T	W	F	S
	01	02	03	04	05	06	07	08	09	10	11
	12	13	14	15	16	17	18	19	20	21	22
	23	24	25	26	27	28	29	30	31		

Appointments

Suspense is used to manage asynchronous data fetching and code-splitting allowing you to display loading indicators while the data load or code ~~is~~ is being fetched. When suspense is encountered by ~~read~~ it knows there might be a delay in rendering & it can handle that situation gracefully.

13

14

15

16

17

12 SUNDAY

2025