

04

SATURDAY

Week 40

Day (277-088)

OCTOBER

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Appointments

09 ~~# of~~ Episode 09 - Optimizing-our-app.

10 Single Responsibility Principle

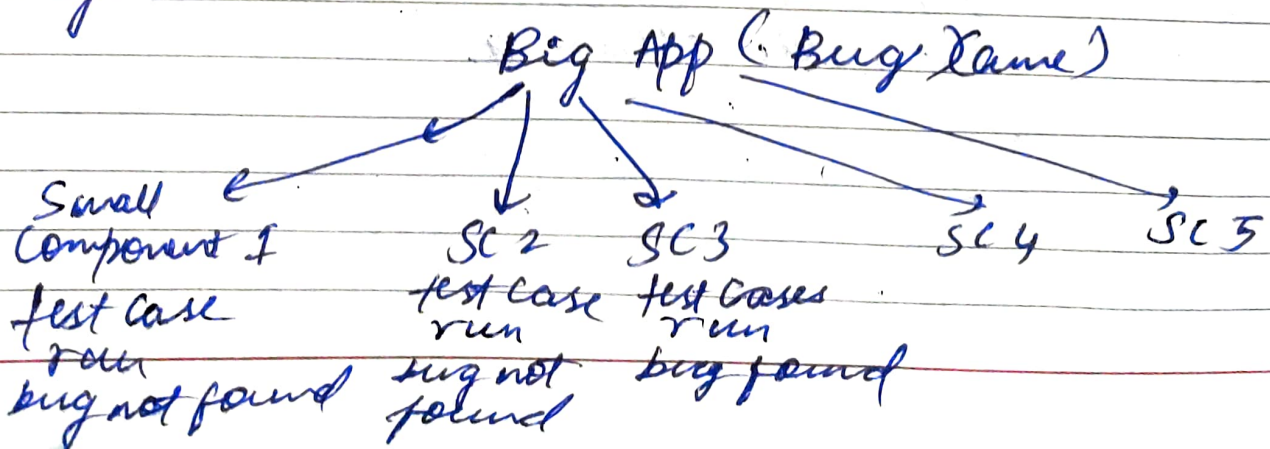
11 If you have function, class or ~~piece of~~ code any single identity that should
12 have a single responsibility.

13 Each component should have a single responsibility.

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

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

17 This helps in Modularity :- breaking components into small components that help
5 SUNDAY 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

Appointments So, we change only SC3

09 This make easy to find bug in our
10 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

specific

15 Hooks are functions that provided by
react that let function components use
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.

07

TUESDAY

Week 41

Day (280-085)

OCTOBER

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Appointments

Industry standard for custom hook
 09 Create that file for hook in utils
 and always create a separate file
 10 for separate hook and create a
 name with 'use' like
 11 'useRestaurantMenu' as react understand
 that use means a hook

12

13 `const useRestaurantMenu = (restId) => {`
 //code

14

15 `return restInfo;`
`}`

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

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	24	25	26	27	28	29	30							

WEDNESDAY

Week 41

Day (281-084)

08

Appointments

09 we will use event listener called window.
10 online event listener. we need to add this
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

09

THURSDAY

Week 41

Day (282-083)

OCTOBER

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Appointments

09 How to & when to make smaller bundles

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

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

14 Just assume we have also Grocery
15 which has many components inside it
so, we make two bundle one for
16 Grocery & one for food delivery.

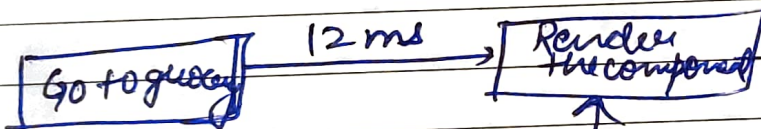
17 We will import our grocery via lazy loading.
Initially our code will not have grocery
code when we go to grocery page
then only we load grocery page.

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

const Grocery = lazy(() => import("./components/
grocery"))

When we look into N/w tab now the grocery will have its own js file & other bundle file will be different.

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



Code (40ms) so error. code needs more time but react is very fast so it load the component before the code came. So, we will use 'Suspense' keyword here

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.

11

SATURDAY

Week 41

Day (284-081)

OCTOBER

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Appointments

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12 SUNDAY