

REACTJS PRACTICE BOOKLET

- 1) What is React?
a) Library b) Framework c) both a&b d) None
- 2) Why React _____
- 3) Who released React?
a) Facebook b) Google c) Microsoft d) None
- 4) What is current version of React _____
- 5) What is JSX?
- 6) npm stands for _____
- 7) npx stands for _____
- 8) how to download libraries?
a) npm b) yarn c) both a&b d) None
- 9) write the installation steps for React?

Step 1.

Step 2.

Step 3.
- 10) Write steps to create React Application?

Step 1.

Step 2.

Step 3.
- 11) What is Default Port Number of React?
a) 3000 b) 4200 c) 8080 d) 27017
- 12) Why node_modules in React Project?
- 13) Which component is Default Component in React? _____
- 14) Which template is main template in React? _____
- 15) Where to deploy components in React Applications? _____
- 16) Write the Execution flow of React Application
- 17) What is component? Write minimum 5 points?

1)

2)

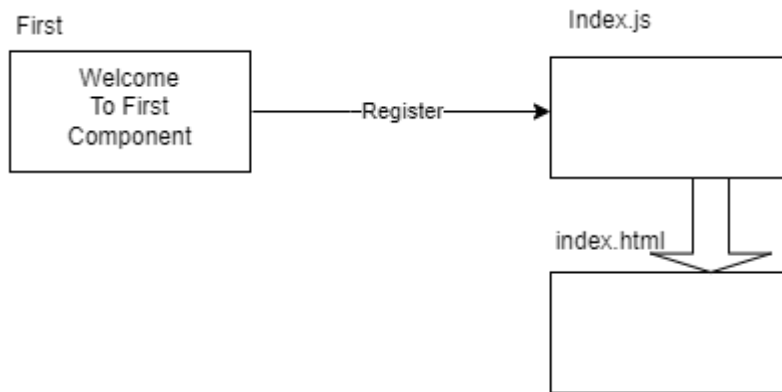
3)

4)

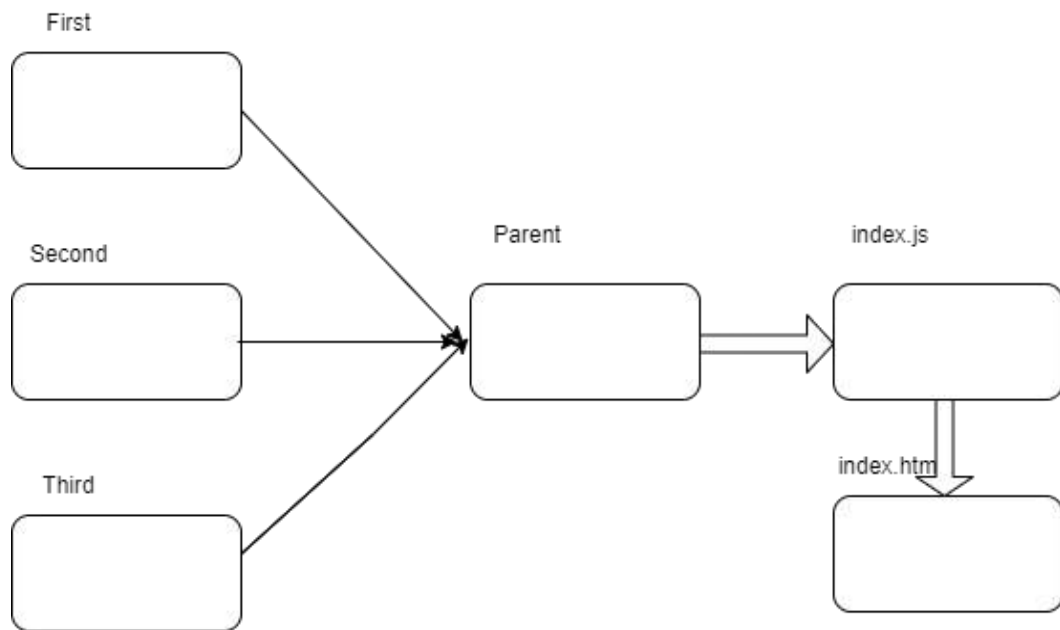
5)
- 18) Draw sample diagram to represent components in React Application?
- 19) Types of components in React

1)2)
- 20) How to enhance Functional Components _____
- 21) Hooks introduced in _____

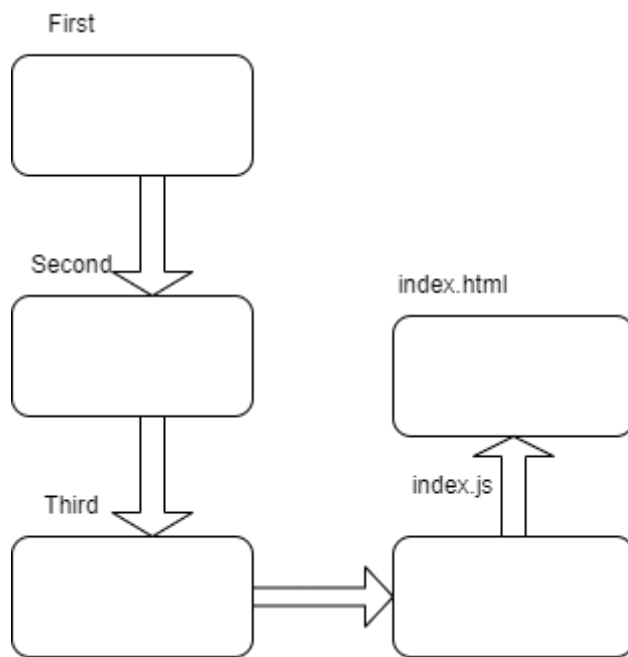
22) Write the code to create Following Component?



23) Write the code for below diagram



24) Write the code for below diagram?



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25) What is state in component?

26) Write the syntax for state in component?

27) How to iterate list in react application?

a) for loop b) while loop c) map function d) None of the Above

28) display the following list in react application?

["Angular"," React"," Node"," VueJS"," MongoDB"," Mern Stack"]

SNO	Value
0	Angular
1	React
2	Node
3	VueJS
4	MongoDB
5	Mern Stack

29) display the following Array in the form of a table?

```
[
  {"p_id":111,"p_name":"p_one","p_cost":10000},
  {"p_id":222,"p_name":"p_two","p_cost":20000},
  {"p_id":333,"p_name":"p_three","p_cost":30000},
  {"p_id":444,"p_name":"p_four","p_cost":40000},
  {"p_id":555,"p_name":"p_five","p_cost":50000}
]
```

Result:

p_id	p_name	p_cost
111	p_one	10000
222	p_two	20000
333	p_three	30000
444	p_four	40000
555	P_five	50000

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30) how to do view encapsulation?

- a) `<></>` b) `<React.Fragment></React.Fragment>` c) both a&b d) None

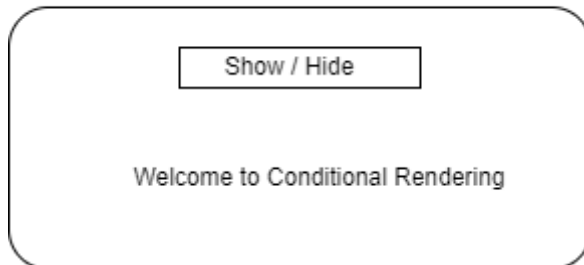
31) Write the snippet for download react-router-dom@6 package?

npm :

yarn :

32) Show or hide the following message in React Application with conditional Rendering?

First



33) Implement below example with Conditional Rendering?

Components are: 1) Dashboard

2) Success

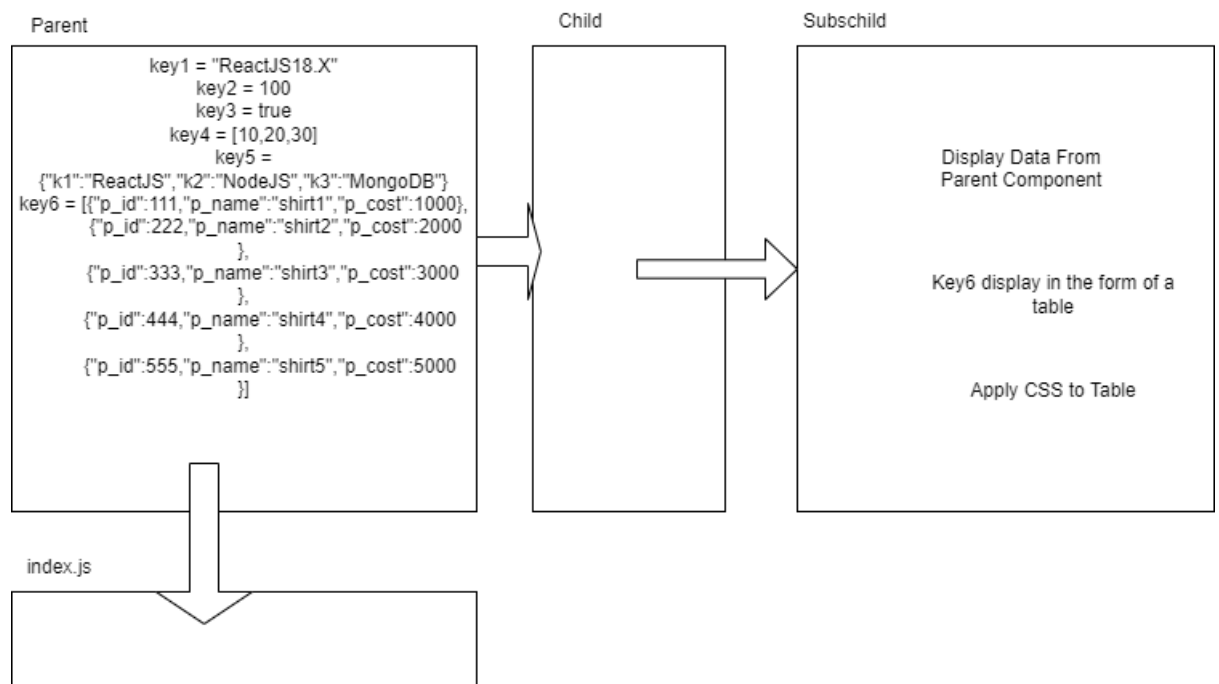
3) Failure

Write Conditional Rendering in Dashboard Component, display "Success Component" based on true and "Failure Component" based on false

34) How to provide communication between components?

- a) props b) state c) both a&b d) None

35) implement the below application with props and props drilling



36) implement basic application with props.children
pass "ReactJS" from Parent to Child through props.children

37) implement above example with State
Note: keys data should read from state

38) implement the example to share data from Child Component to Parent Component
Ex.

Share the following data

Key1: "Hello"

Key2: 100

Key3: true

39) write the basic example for click event with 0 parameters

40) write the basic example for double click with 0 parameters

41) write the basic example for click event with two parameters (i.e. Sathya & Sathya@123)

42) write the basic example for double click event with two parameters (i.e. Sathya & Sathya@123)

43) implement the Registration Example

Registration		Details	
User Name	<input type="text" value="Sathya"/>	User Name	Sathya
Mobile	<input type="text" value="12345"/>	Mobile	12345
Email	<input type="text" value="hr@sathya.com"/>	Email	hr@sathya.com
Address	<input type="text" value="Hyderabad"/>	Address	Hyderabad
<input type="button" value="Register"/>			

44) implement the Login Example

User Name

admin

Password

.....

Login

Login Success

45) how add CSS to Components and write Examples also?

46) consume below GET Requests and apply Conditional Rendering with Font Awesome (Spinner)

URL1:

<https://www.7timer.info/bin/astro.php?lon=113.2&lat=23.1&ac=0&unit=metric&output=json&tzshift=0>

URL2:

<https://www.w3schools.com/angular/customers.php>

URL3:

<https://reqres.in/api/unknown>

47) implement below GET Requests by id

URL1:

<https://reqres.in/api/users?page=2>

URL2:

<https://reqres.in/api/unknown/2>

48) implement below POST Requests

URL1: <https://reqres.in/api/register>

Request data

```
{
  "email": "eve.holt@reqres.in",
  "password": "pistol"
}
```

Response data

```
{
  "id": 4,
  "token": "QpwL5tke4Pnpja7X4"
}
```

URL2: <https://reqres.in/api/login>

Request Data

```
{
  "email": "eve.holt@reqres.in",
  "password": "cityslicka"
}
```

Response data

```
{
  "token": "QpwL5tke4Pnpja7X4"
}
```

URL3: <https://reqres.in/api/users>

```
{
  "name": "morpheus",
  "job": "leader"
}
```

```
{
  "name": "morpheus",
  "job": "leader",
  "id": "545",
  "createdAt": "2023-03-07T06:09:04.470Z"
}
```


49) implement the below PUT Requests

URL1: <https://reqres.in/api/users/2>

Request

`/api/users/2`

```
{
  "name": "morpheus",
  "job": "zion resident"
}
```

Response

`200`

```
{
  "name": "morpheus",
  "job": "zion resident",
  "updatedAt": "2023-03-07T05:17:22.231Z"
}
```

50) implement below DELETE Request

URL : <https://reqres.in/api/users/2>



51) what are Single Page Applications? Write minimum 10 points and Draw the Diagram

1)

2)

3)

4)

5)

6)

7)

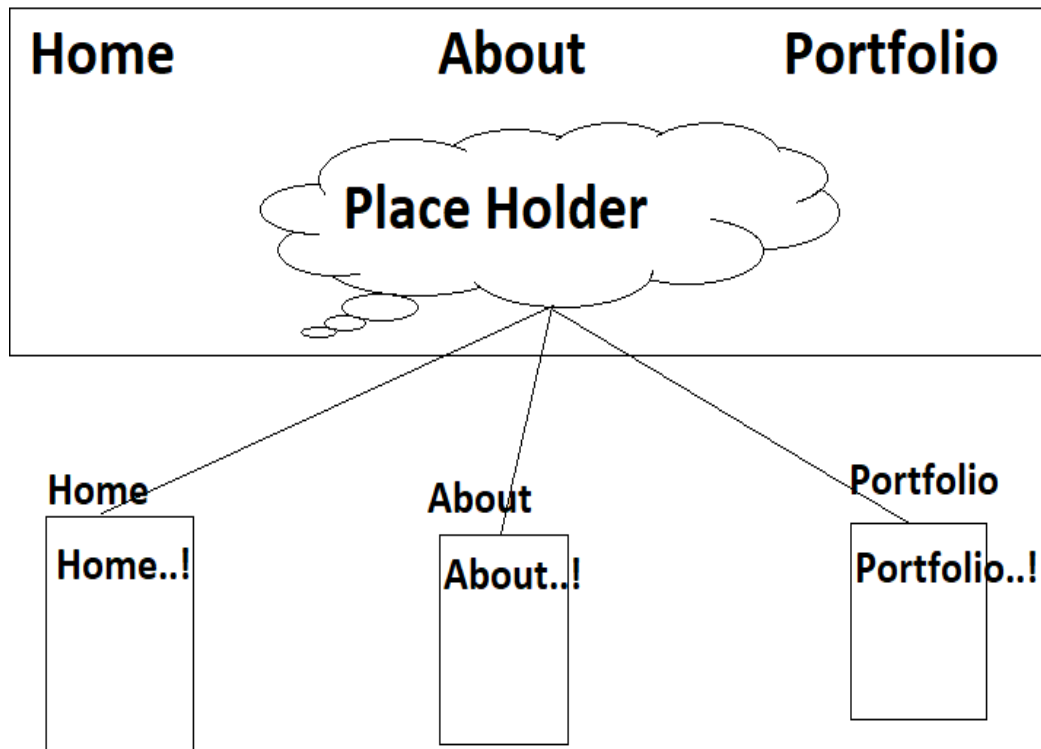
8)

9)

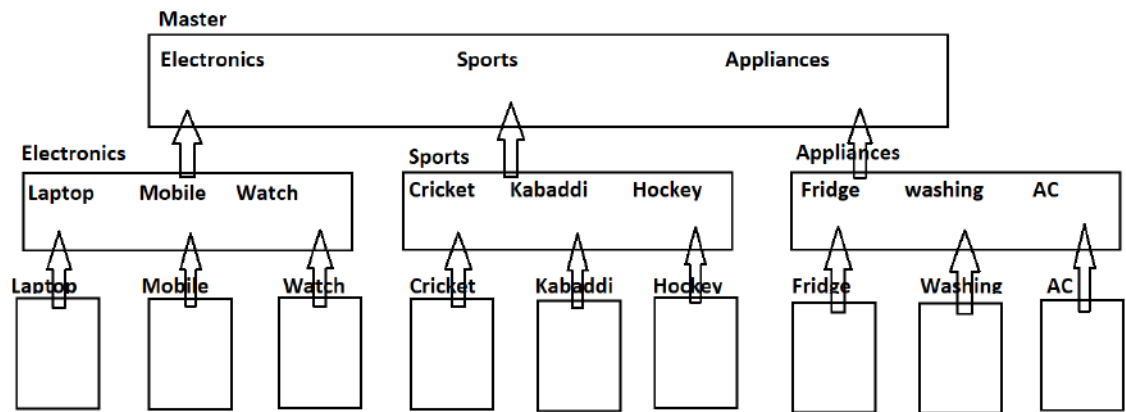
10)

52) implement the below application with Single Page Applications

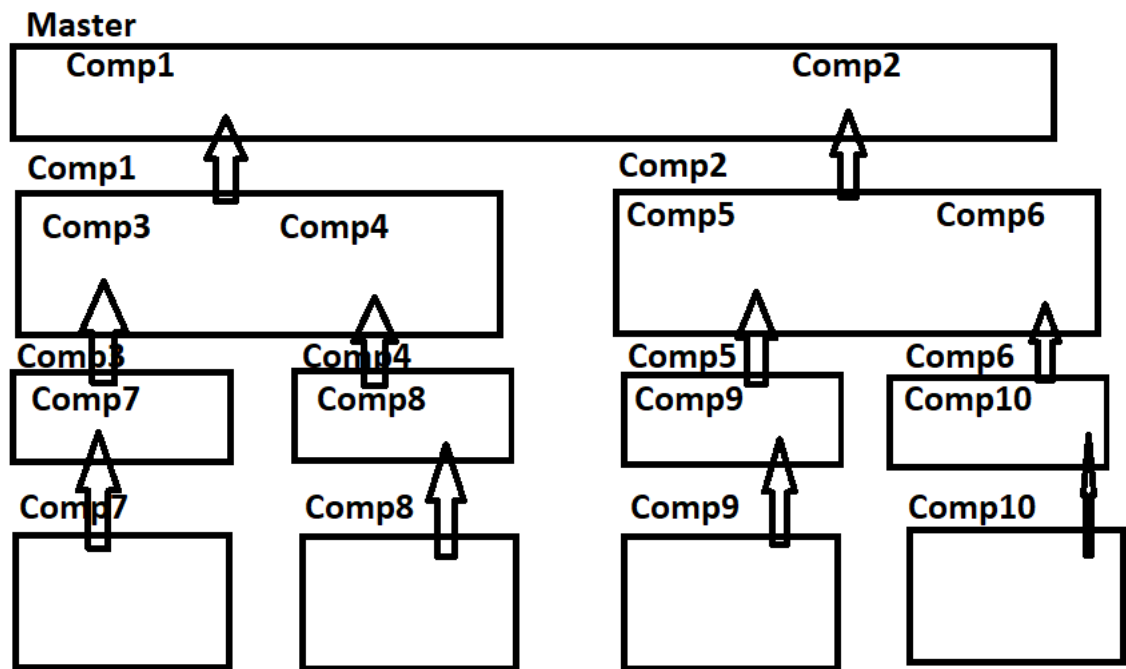
Main



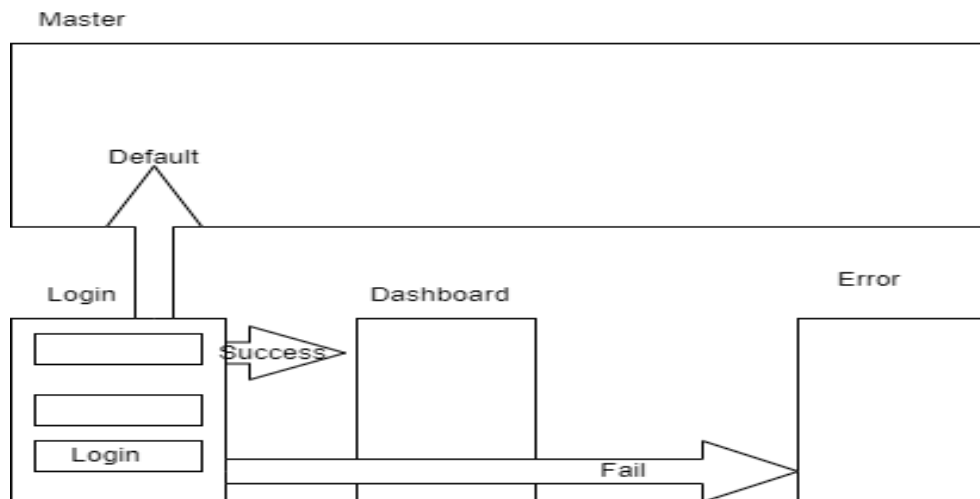
53) Implement the Below Application with Single Page Application



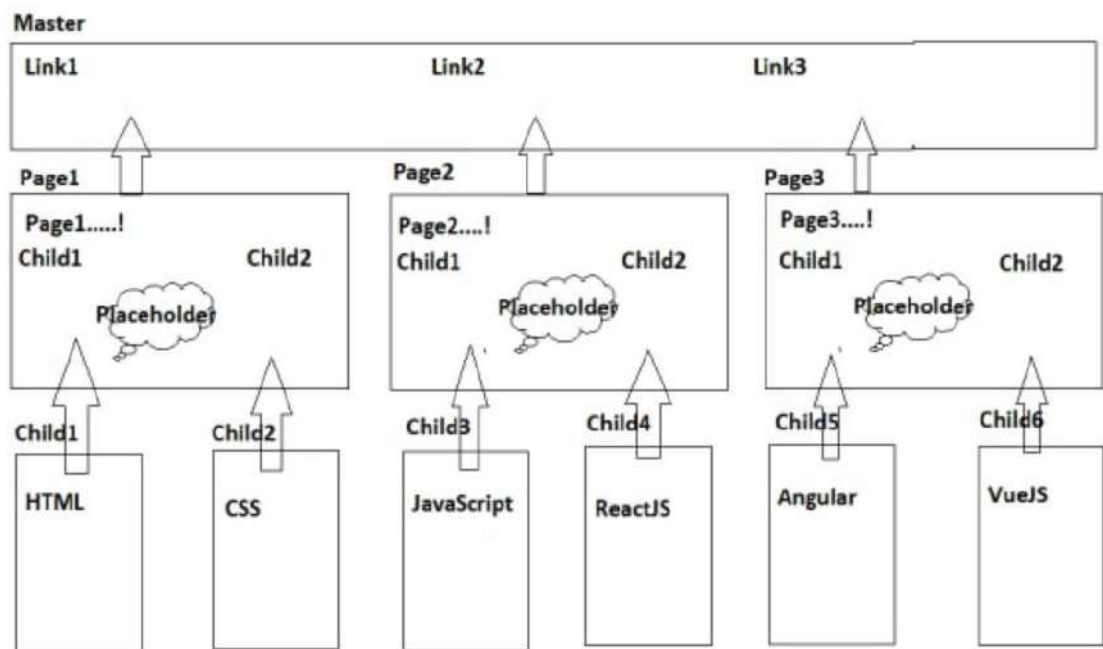
54) Implement the Below Application with Single Page Applications



55) Implement the below application with Single Page Applications



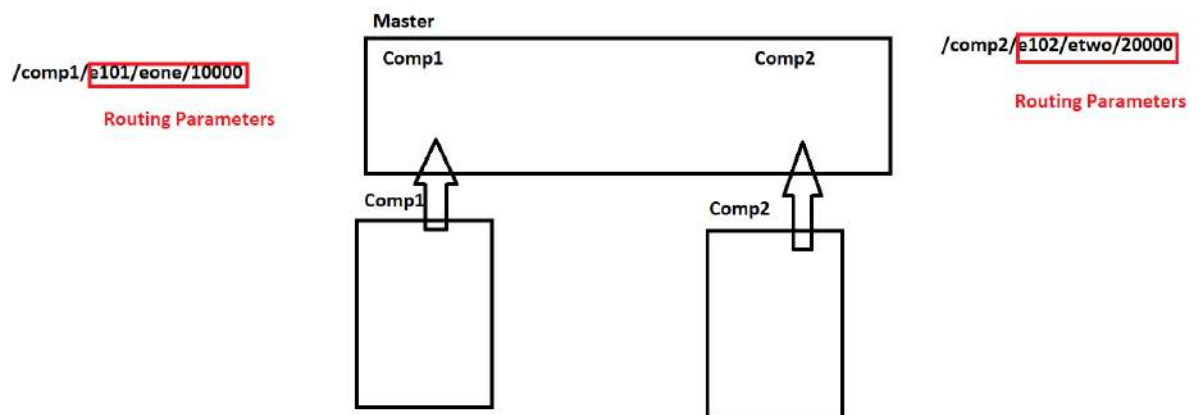
56) Implement the Below Application with Single Page Applications



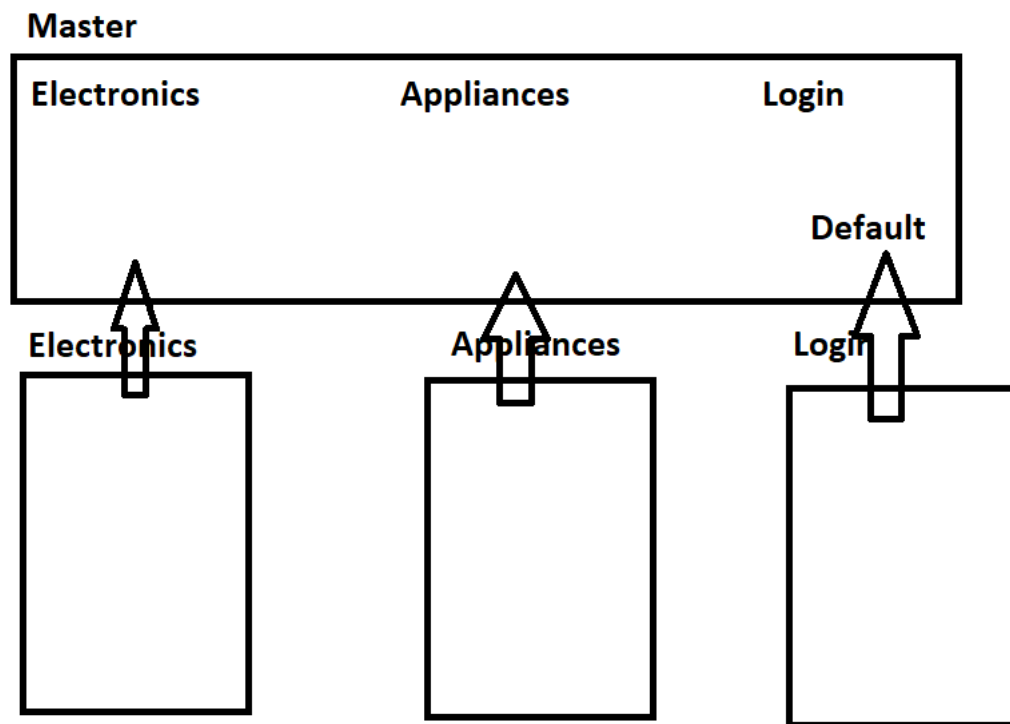
57) What is useNavigate () hook in Single Page Applications?

58) What is useParams () hook in single page applications?

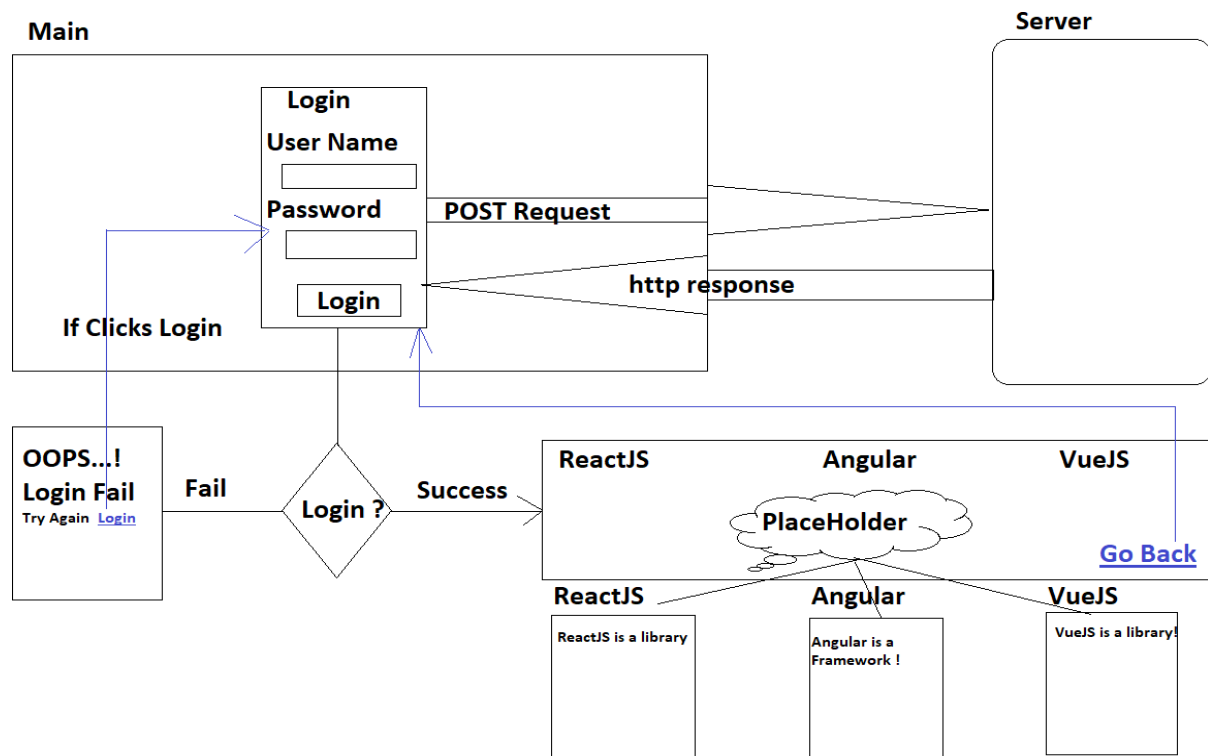
59) Pass Routing Parameters in Below Application?



60) Make Login Component as Default Component in Below Diagram



61) Implement the below project with single page applications?



62) What is <Outlet></Outlet> Component in ReactJS

63) why state management in React?

64) how to implement state management in react?

1)

2)

65) what is redux?

66) draw the architectural diagram for redux

67) what is dispatch?

68) what is Action?

69) what is reducer?

70) can we create more than one reducer (yes/no) _____

71) what is store?

72) what is state in redux architecture?

73) what is subscribe in redux architecture?

74) what is thunk middleware and draw the architectural diagram

75) what is saga middleware in redux?

76) write the hooks in state management?

1)	2)
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77) how to subscribe in redux architecture _____

78) how to dispatch in redux architecture _____

79) how to combine reducers in redux architecture _____

80) consume the below rest api by using redux

<https://www.w3schools.com/angular/customers.php> (GET Request)

81)

82) consume the below rest api by using redux

<http://benfranklinserver-env.eba-5adimdsp.us-west-2.elasticbeanstalk.com/login> (post request)

body --- {"uname": "sathya", "upwd": "sathya@123"}

83) What is regular expression

84) Write the Syntax for Regular Expression _____

85) What is ^ operator in Regular Expression _____

86) What is \$ operator in Regular Expression _____

87) What is \d operator in Regular Expression _____

88) What is \w operator in Regular Expression _____

89) What is {} operator in Regular Expression _____

90) Write the Regular Expression for empty string validation _____

91) Write the regular expression for

- a) Should start with Capital Letter
- b) Should contains alpha numeric vales
- c) Minimum 6 Characters
- d) Maximum 8 Characters

92) Write the Validations for Password

- a) Should contain one digit
- b) Should contain one capital letter
- c) Should contain one lower case letter

d) Should contain one special Character

e) Must contain minimum 8 characters

93) Write the Validation for email

94) Write the Validations for Mobile Number

95) What is lodash package?

96) How to download lodash package by using yarn tool

97) Write the validation for below application (text validation)

USER NAME VALIDATION

User Name

Login Reset

98) Write the validation for below application (password validation)

PASSWORD VALIDATION

Password

Login Reset

99) Write the validation for below application (email validation)

EMAIL VALIDATION

Email

Login Reset

100) Write the validation for below application (mobile number validation)

MOBILE NUMBER VALIDATION

Mobile

Login Reset

101) Write the validations for Login Form

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LOGIN FORM

User Name

Password

102) Write the Validations for Registration Form

REGISTRATION FORM

First Name

Last Name

Password

Conf Password

Email

Age

Gender ☐ Male ☐ Female

Skills ☐ C Lang ☐ CPP

☐ Java Lang ☐ Dot Net

Country

Select Date

Pref Time

Choose Color

Address

Upload Resume No file chosen

(enter first name)

(enter last name)

(enter valid password)

(enter valid password)

(enter valid email)

(enter age > 20)

(select gender)

(choose skills)

(select country)

(select date)

(choose pref time)

(choose color)

(enter address)

(***.pdf files only***)

103) Write the life cycle stages of Class Level Components

a)	b)	c)	d)
----	----	----	----

104) Write the snippet (code) for constructor with state in class level components

105) Write the few life cycle methods in class level components

106) Write the few points related to render () in class level components

a)
b)
c)
d)
e)

107) Write the few points related to componentDidMount () in class level component

a)
b)
c)
d)
e)

108) What is componentWillReceiveProps () in class level components

--

109) Write the few points related to shouldComponentUpdate () in class level component

110) In initial stage which one will execute in class level components

- a) Constructor b) state c) props d) All of the Above

111) In mounting Stage which hooks will execute in class level components?

--

112) In updation stage if props are changed which life cycle methods will execute?

--

113) In updation stage if state changed which life cycle methods will execute?

--

114) In unmounting stage which life cycle method will execute

115) _____
Draw the Diagram for life cycle methods in Class Level Component

