

Day

Content

Sub-Content

1 Advanced Javascript

Object Oriented Programming
Modularisation
Important differences wrt classical

2 Tools

NPM and Development Tools
Node JS & Hot loading techniques f
Client side scripting with npm

JSX

Webpack
Gulp
Browserify
Bower
Karma and Jasmine for unit testing
Istanbul for code coverage
Babel transpiler

Using React with JSX
Using React without JSX
Precompiled JSX

3 Components

Adding child elements
Imperative vs Declarative
Unidirectional Dataflow
create Class
create Element
state
props
props- children
Compositions
Lifecycle Hooks
Mounting and updating component
Defining parent/child relationships
Communication Between Component

Reusable Components
Cloning Components
Controlled Components
Uncontrolled Components
Container vs Presentational Component

Stateless Functional Components
Private Stateless Functional Components
Component Using External Plugins

Events
Virtual DOM

Forms

Routing

Declarative Routing
Route Configurations
Route Matching
Animating Route Transitions
Router Params & Queries

4 Flux

Store Events
Dispatcher
Actions
Asynchronous & AJAX Flux Actions
Memory Leaks

Redux

Multiple Reducers
Redux middleware
Redux async Action
Connecting React & Redux

Server Side Communication

Responsive web designing (fitting page across different sizes). We use Toastgrid in our project.
Few test cases written for ReactJs using Jasmine and Karma
Testing 3rd part components like jTable, Data Table, JSTree and High charts using Jasmine and karma

5 Troubleshooting

Debugging Techniques

Memory & Performance tuning with React
Best Practices

Case Study