SPIKE CHEMPLANNER

LETS GET STARTED :)

what's the
Problem?

DIRECTLY TOUCHING THE DOM FOR EVENT BINDING, ATTRIBUTES CHANGE ETC..

- put direct dependency on selector engine

```
/**
 * Events for the view
 * @property events
 * @type Object
 */
events: {

    'click .molecule-new-search': 'goBackToSearchHandler',
    'click .mark-sm': 'markStartMaterialHandler',
    'click .edit-sm': 'editStartMaterialHandler',
    'click .edit-price': 'editCustomPriceHandler',
    'click .set-price': 'setCustomPriceHandler',
    'click .clean-structure': 'cleanStructureDisplayHandler',
    'click .exclude-molecule': 'excludeMoleculeHandler',
    'mouseover .dropdown-submenu': 'positionSubmenuHandler'
},
```

```
</li>

<li class="exclude-molecule">
    <a>Exclude Molecule</a>
</li>
```

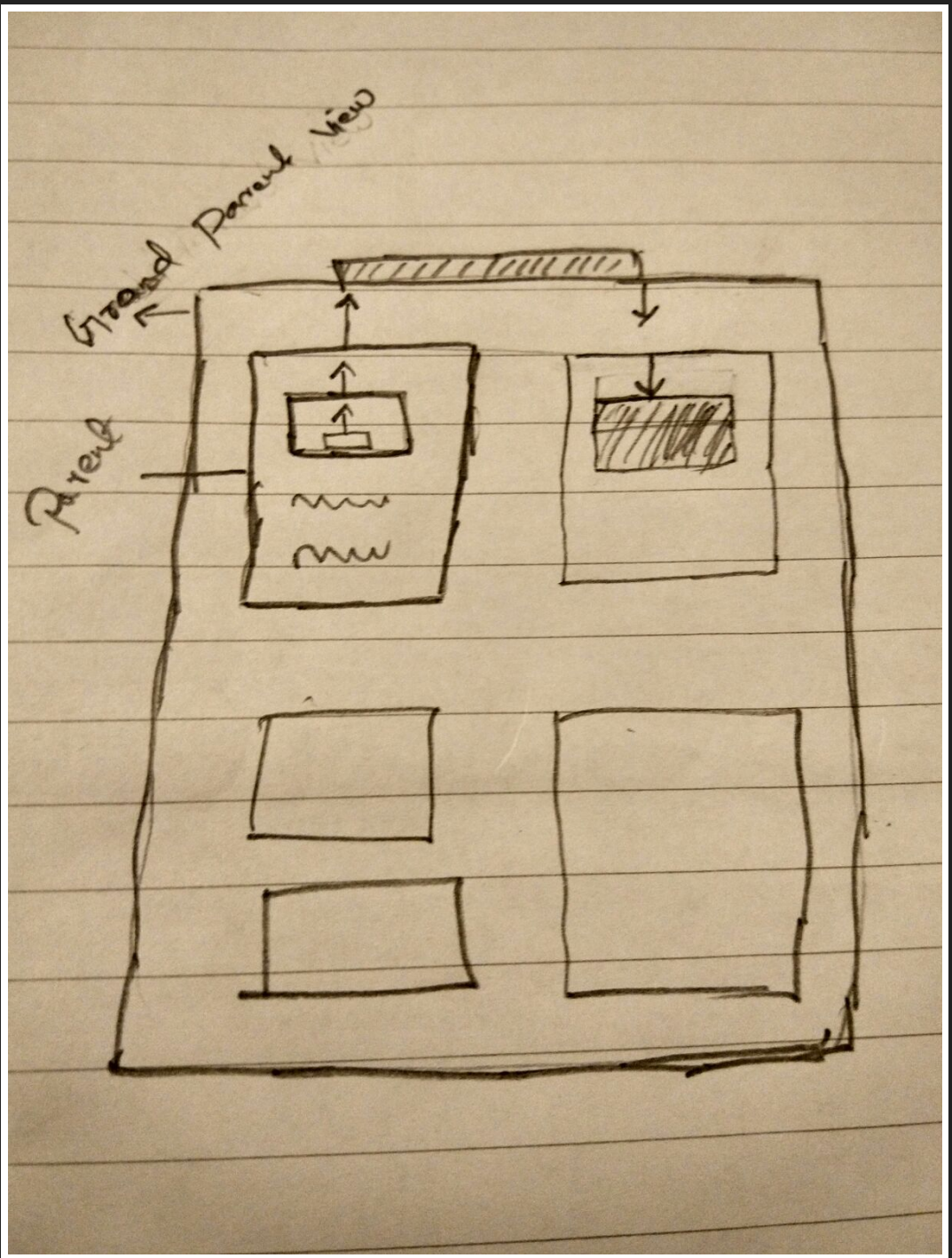
BACKBONE - RE-RENDERING VIEW WILL LOOSE OUR STATE

- Leads to creating multiple views for small state change or any ui state change

- Most of this views cannot be re-used

MANAGING THE HISTORY FOR COMPLEX APPLICATION IS DIFFICULT

EVENTS - IN SUB-VIEWS IS A NIGHTMARE TO DEBUG


Grand Parent View
Parent

DECORATOR + MIXIN PATTERN

- Difficult to test decorators
- Order of execution not clear
- Not clear what is applied when decorators are used
- Poorly named
- Overzealous abstraction
- Extended from multiple files(hard to follow)
- Too rigid

CHANGING/CLEANING API END POINTS(PERMISSIONS, ROLES, PERMISSIONS GROUPS)

- Validation(Back-end and Front-end)
- Routing(error pages)
- Error in session

DRAW VIEW WITHOUT DATA(CACHE VIEWS) THE RE RENDER(MANUAL WAY)

- Poor separation of view + data
- Mostly use singletons

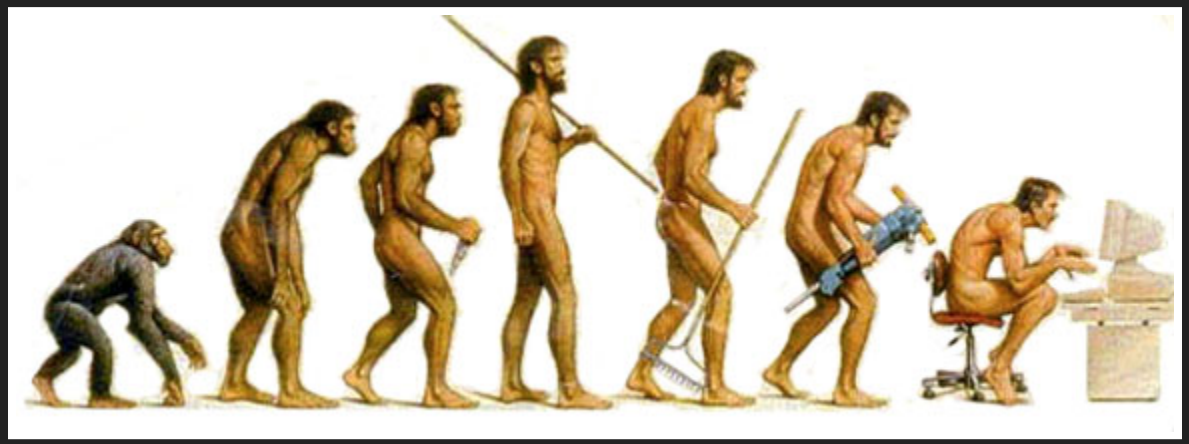
```
56                  if (this.get('queryHistoryId')) {
57                      this.url = this.url + this.get('que
58                  } else {
59                      this.url = this.url + this.id;
60                  }
61              }
62          }
63      });
64
65      return new EditStructureModel();
66  });
67
```

- Hard to test dependencies
- Partial landing of view before session verification

OMG LETS CHANGE EVERYTHING TO REACT NOW

CHEMPLANNER(34600) AND HUB (8642) SCALED UP TO 43,242 LINES OF CODE

PROGRESSIVE ENHANCEMENT



SETUP THE BASICS

- Can we inject react view in to backbone view?
- Does react support requirejs?
- How do we transpile jsx on the fly?
- Can we use same build for backbone and react?
- Can we serve backbone views and react views from single file which we use in production?
- Can we add linting support for js, es6 and jsx

LET'S SEE WHAT YOU'VE GOT
imgflip.com

- Integrated EsLint
- Integrated dependency loader to transpile jsx
- Setup build step for development and production environments
- And a sample with all integrated

TODOS

- Form validation
- Unit testing - one option (enzyme)
- Server side rendering

QUESTIONS

Thank you!