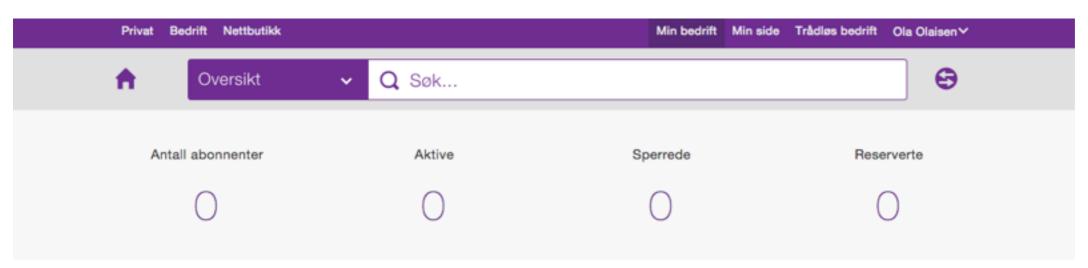
React in the real world

A short talk about data flow "the heart of any React app"

Sven A Robbestad

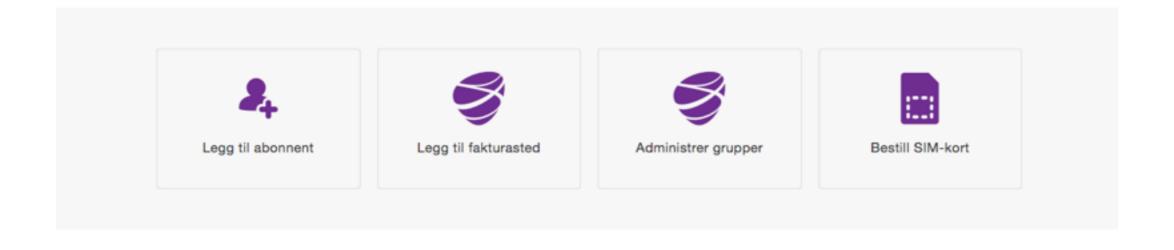
Frontend developer at Inmeta Consulting AS



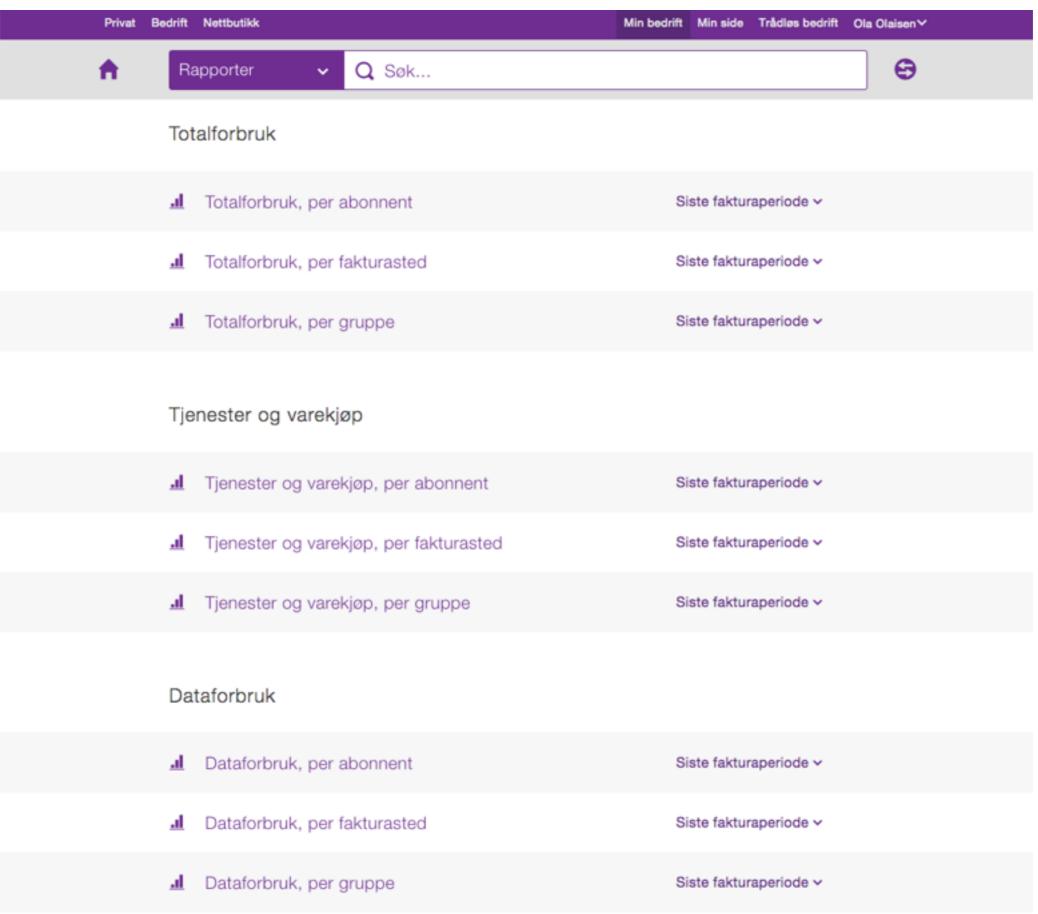


	Detaljer
Organisasjonsnavn	ABS-PARKETTGRUPPEN NORGE AS
Organisasjonsnummer	976 390 512
Addresse	
Avtaletype	
Avtaledato	

Kontakt NetCom dersom innholdet er feil.







Endre status				
	Sperre abonnement	Lukk		
Abonnementet sperres ford	i			
 Mobilen er stjålet 	Mobilen er mistet			

Det kan ta opptil 10 minutter før dette oppdateres



Data flow

One of the major reasons for using React is the Flux architecture.

The idea that you have to use MVC to create web apps was discarded by the React team, and that has been an eye opener.

Data flow

As a consequence there are a lot of Flux implementations in the wild:

Fluxxor, Reflux, McFly, Marty, Fluxible, Fynx, DeLorean

And the list goes on

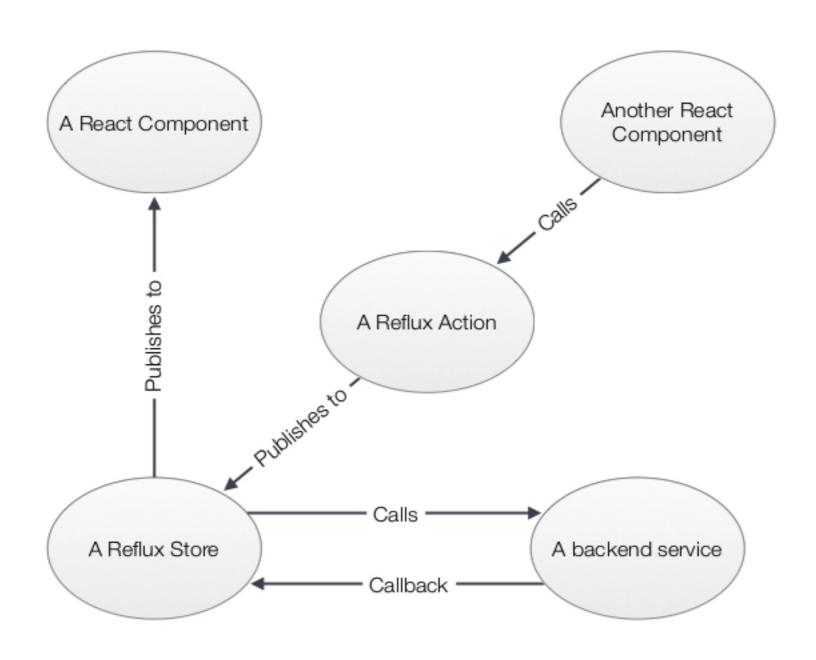
Data flow

After much deliberation, we landed on Reflux

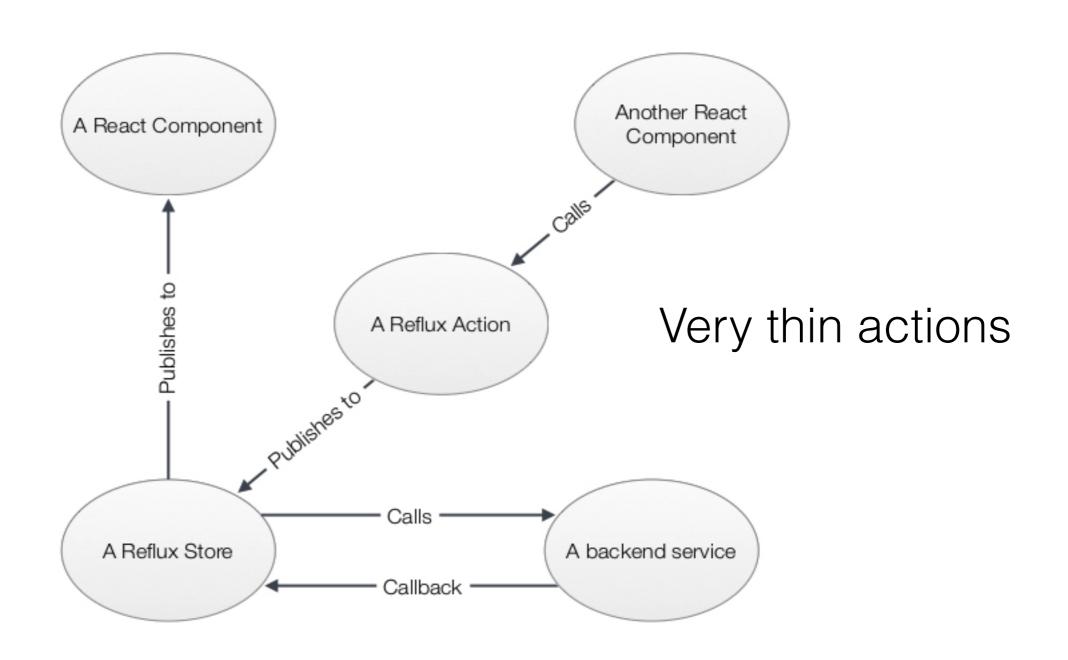
The fundamental reasion is that the implementation was easy to understand and easy to implement

However, after a while we decided to use it in a slightly different way than it's described in the docs. In the following slides I'll share some of our experiences with Reflux.

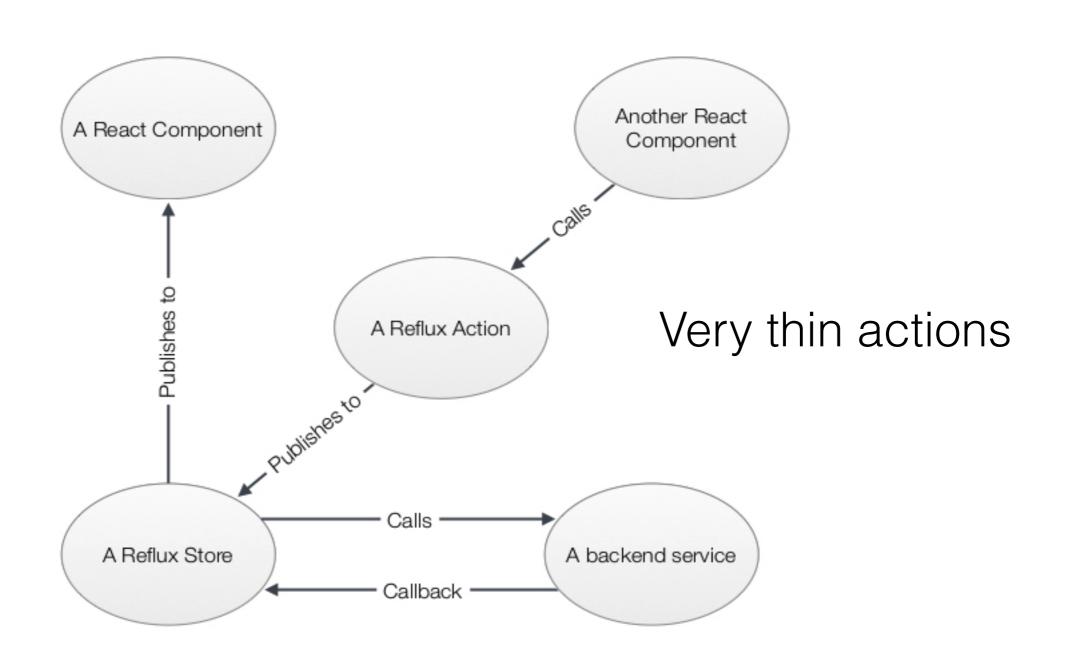
Regular Reflux



Regular Reflux

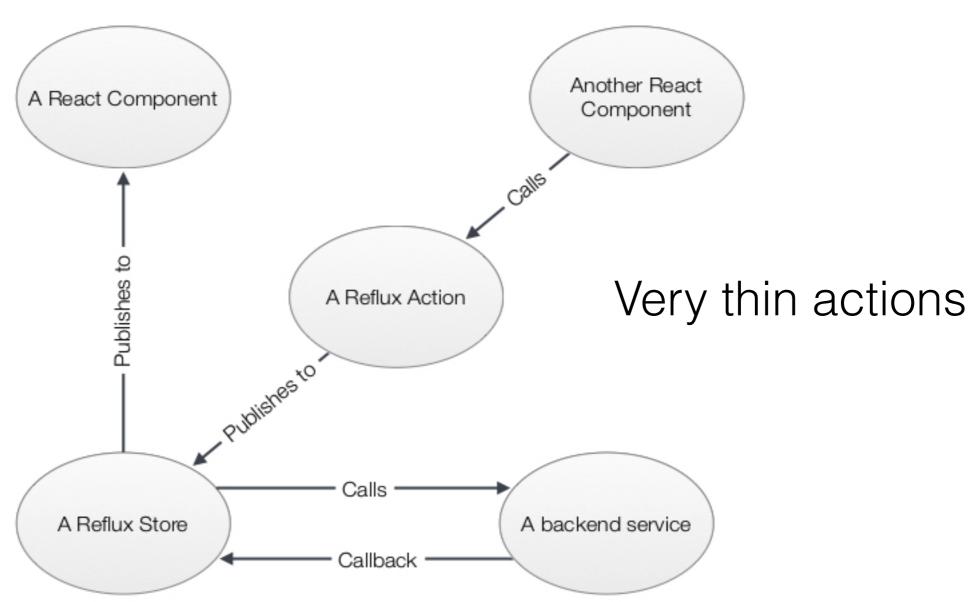


Regular Reflux



Very fat stores

Regular Reflux



Very fat stores

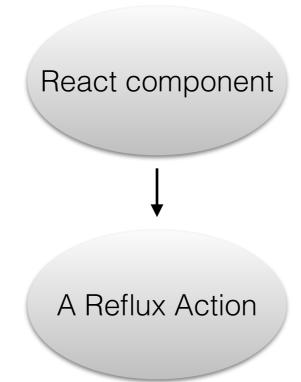
Services called from stores can get hard to debug

Also hard to test

How this looks

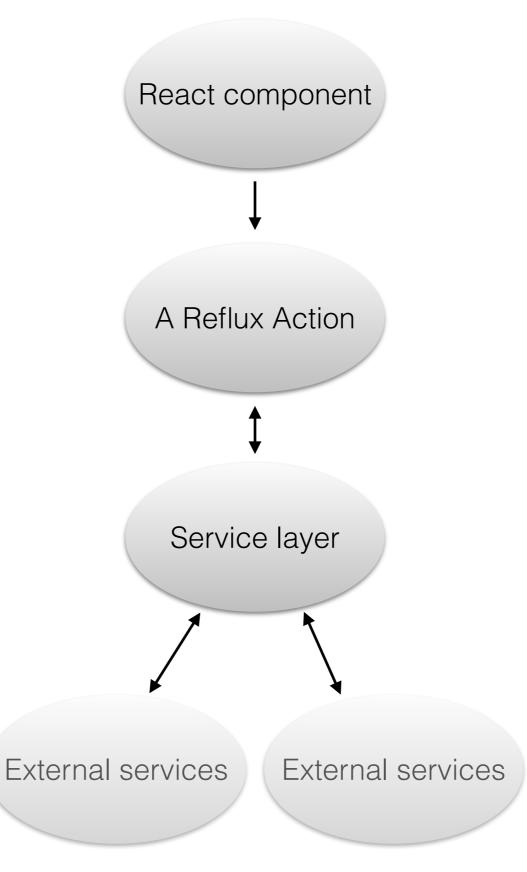
```
// Creating an Action
var makeRequest = Reflux.createAction();
// A Reflux Store
var statusStore = Reflux.createStore({
    init: function() {
        this.listenTo(makeRequest, this.onMakeRequest);
    },
    onMakeRequest: function(url) {
    // Assume `request` is some HTTP library (e.g. superagent)
        request(url, function(response) {
            if (response.ok) {
                makeRequest.completed(response.body);
            } else {
                makeRequest.failed(response.error);
        })
});
// A simple view component that outputs to console
function ConsoleComponent() {
    statusStore.listen(function(data) {
        console.log('data: ', ata);
    });
```

Improved Reflux



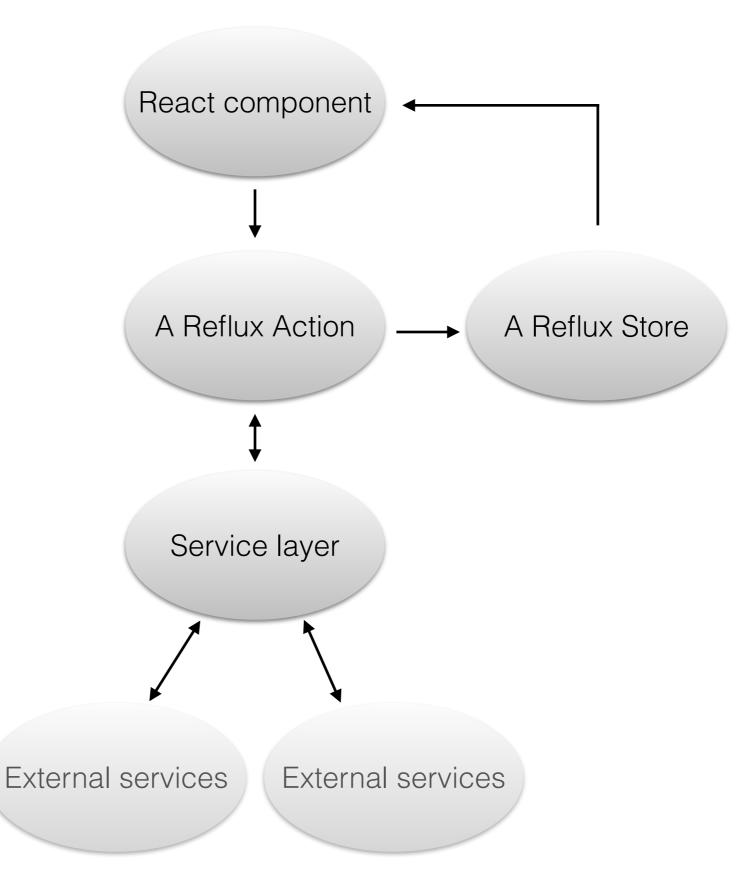
Improved Reflux



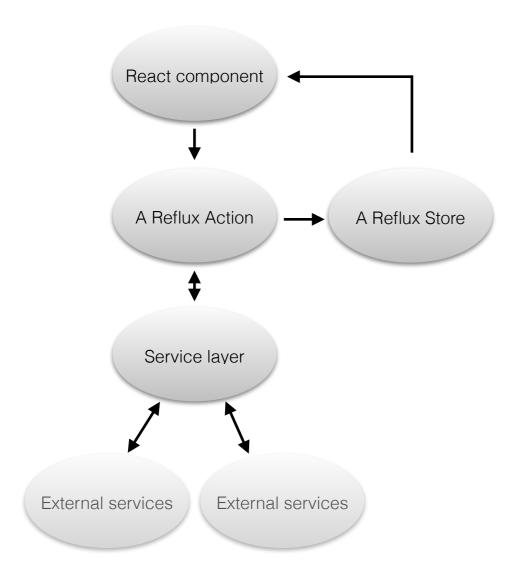


Improved Reflux

Inmeta



Improved Reflux



Benefits

Better separation of concerns

- Easier to test

Easier to structure data flow

Unnecessary to change Reflux, it's just a better way of using it. Reflux already supports this architecture

How this looks

```
var actions = {
    getRequestData: Reflux.createAction("getDataFromServer"),
    getRequestDataSuccess: Reflux.createAction('getDataFromServerSuccess')
};
actions.getDataFromServer.listen(function (url) {
    DataService.getData(url).
        then(function (response) {
            actions.getRequestDataSuccess(data);
        }).catch(function (err) {
       // do some error handling
        });
                                                            const DataStore = Reflux.createStore({
});
                                                                init(){
                                                                    this.listenTo(actions.getDataFromServer, this.getDataFromServer);
class DataService {
    getData(url){
                                                                getDataFromServer: function(result){
        var req = request.get(url)
                                                                    this.trigger(result.message);
            .set('Content-Type', this.contentType)
        return new Promise(function (resolve, reject) {
           req.end(function (err, res) {
                                                            });
               resolve(res.text);
                                                             const ConsoleComponent = React.createClass({
           });
       });
                                                                 mixins: [
                                                                     Reflux.listenTo(actions.getDataFromServerSuccess, "getData")
}
                                                                 1,
                                                                 getData(){
                                                                     console.log(data);
                                                                 render(){
                                                                     return <div />
```