REDUX

Episode IV: A New Hope

Vi i SpareBank1 lager sabla mange skjermbilder. Hva består egentlig en frontendapplikasjon av?

DATA:

DATA:

kontoer
betalinger

DATA:

kontoer

betalinger

sortering

filter

skjemadata

DATA:

- kontoer
- betalinger

} app state

- sortering
- filter
- skjemadata

} view state

VIEW:

VIEW:

utseende

visningslogikk

ACTIONS

ACTIONS:

brukerinteraksjon forårsaker data-endring

DATA:

kontoer, betalinger } app state

sortering, filter, skjemadata } view state

VIEW:

utseende
visningslogikk

ACTIONS:

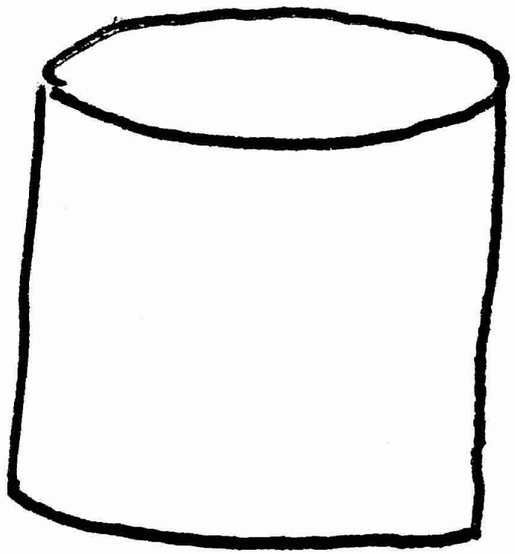
brukerinteraksjon
forårsaker data-endring

Data.

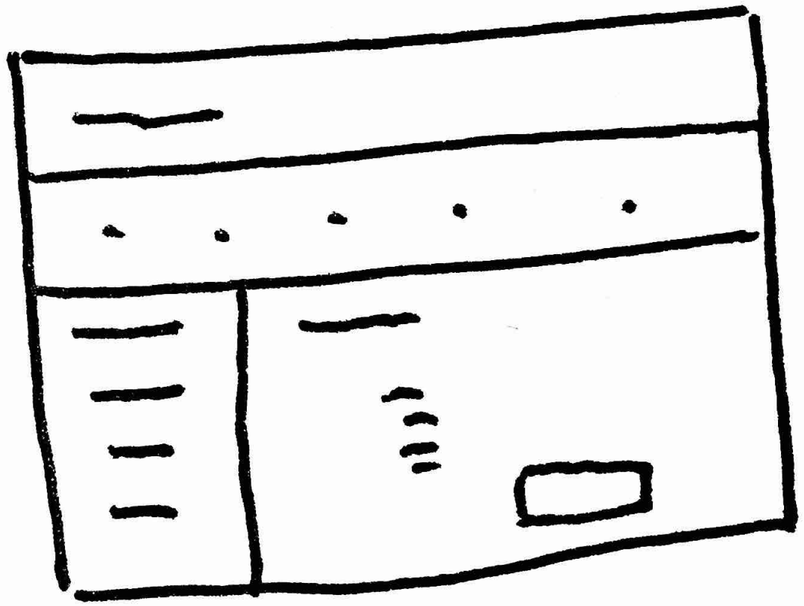
Views.

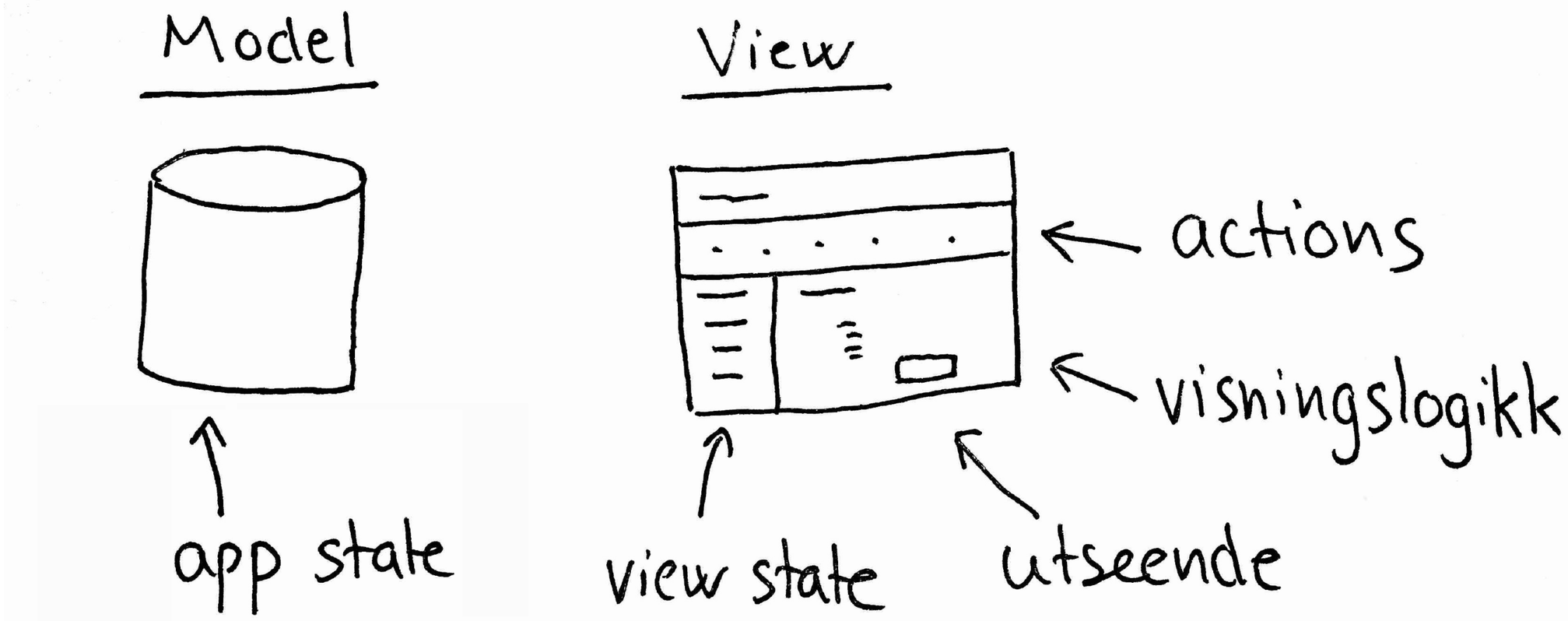
Actions.

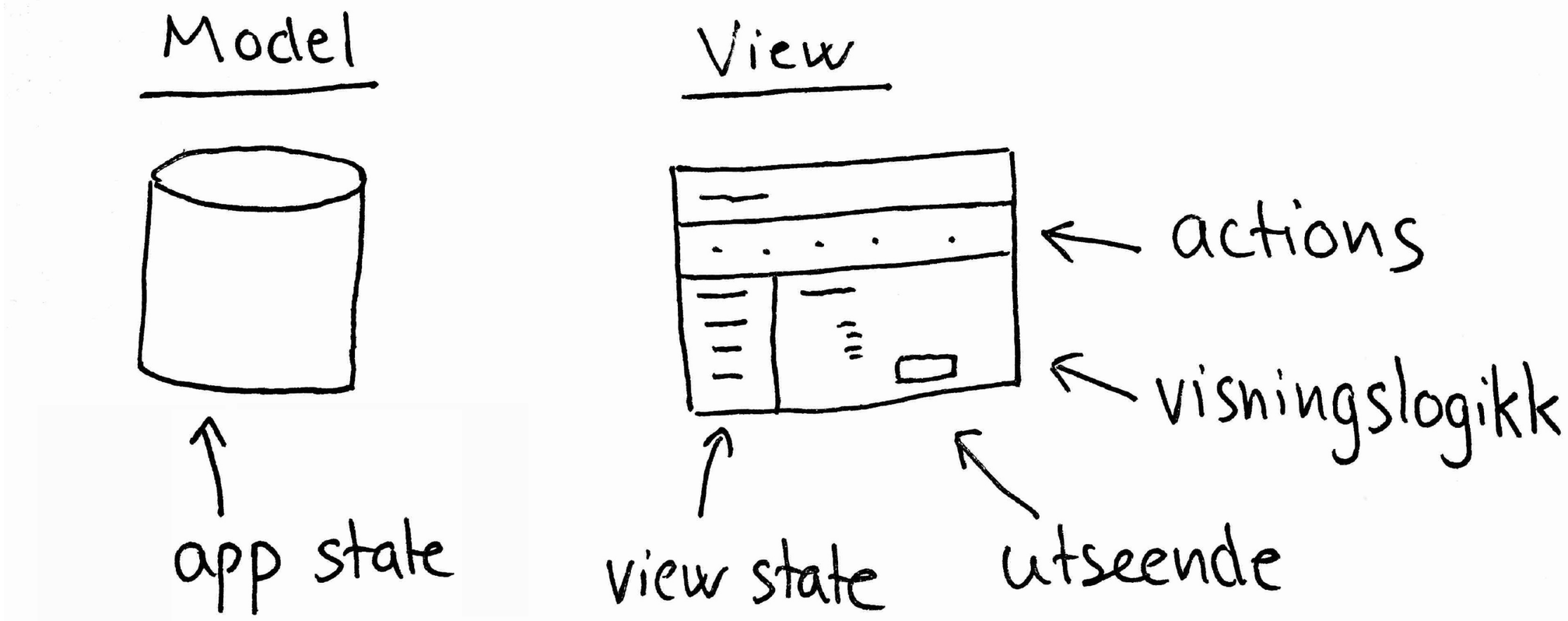
Model



View




Model
View
actions
visningslogikk
app state
view state
utseende


Model
View
actions
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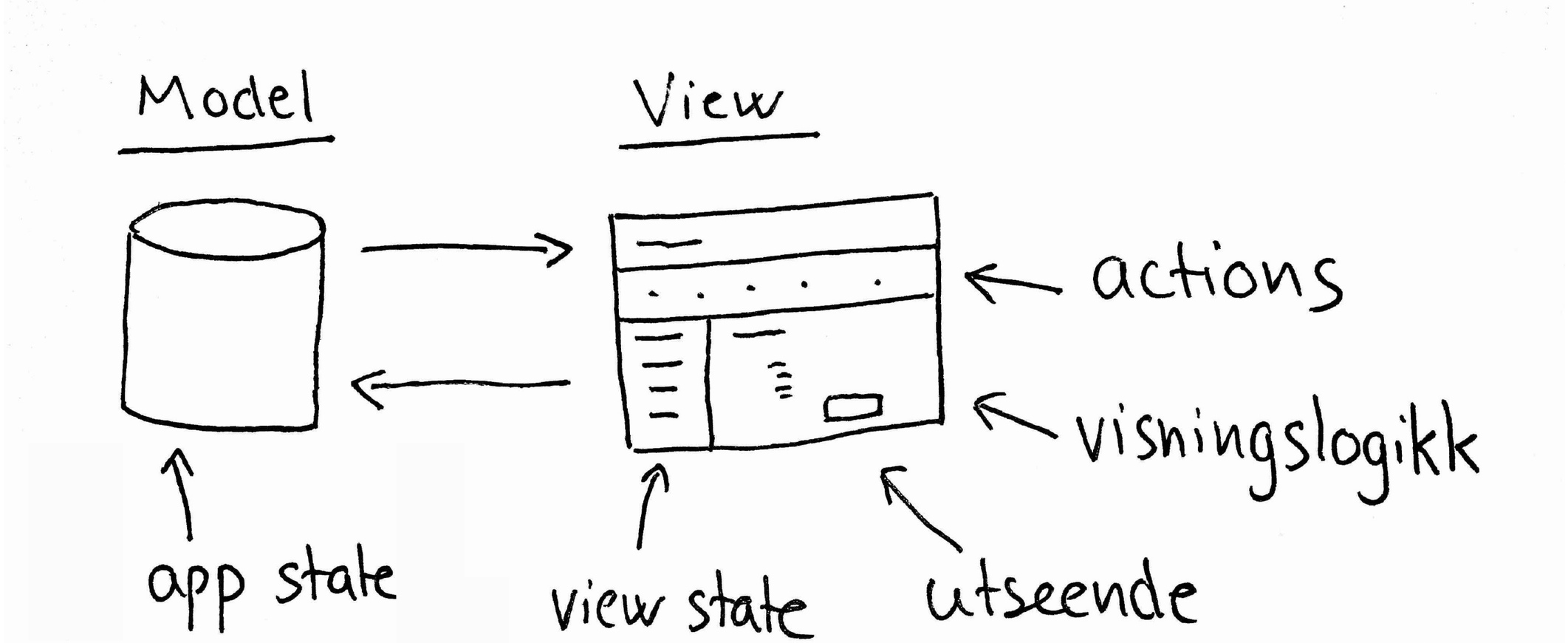
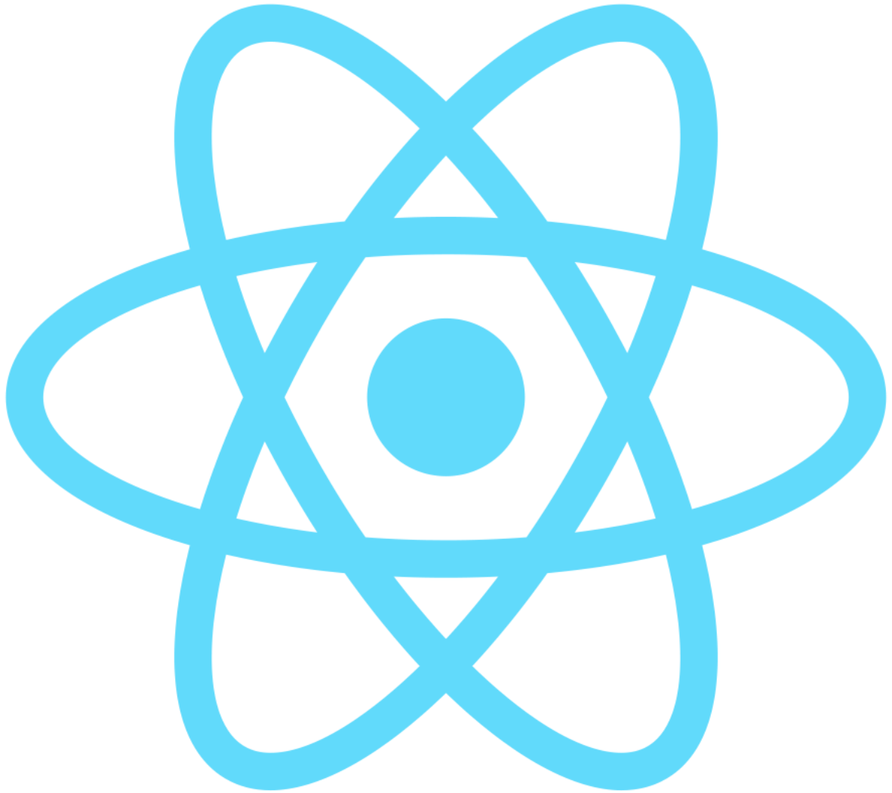
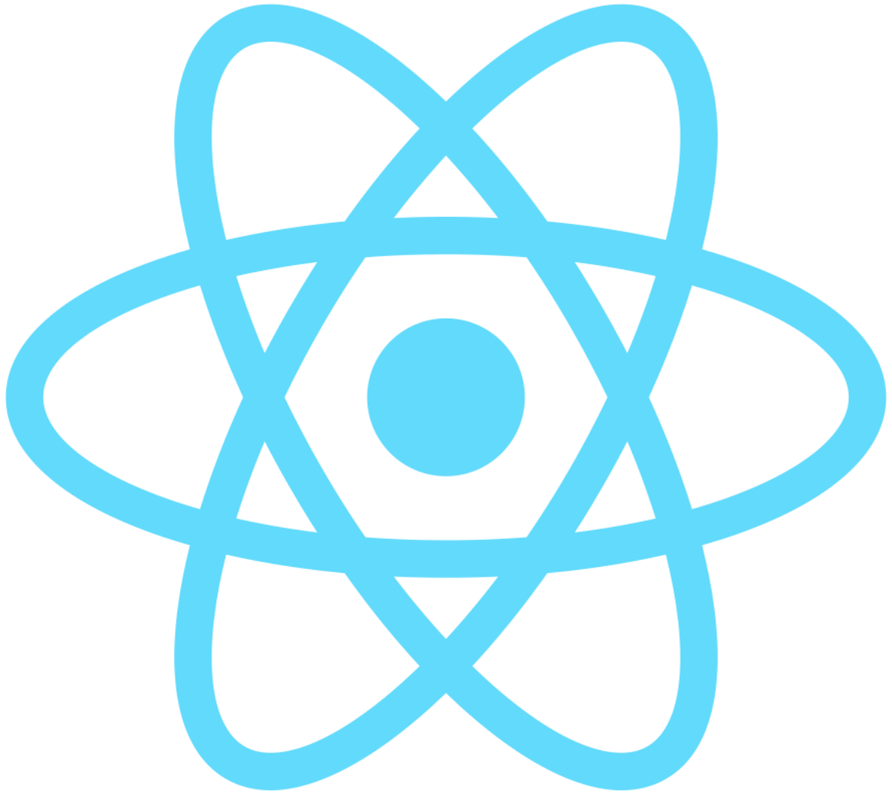
app state
view state
utseende


Model
View
actions
visningslogikk
app state
view state
utseende

En utfordring.
Bruker trykker på KID/Melding, deler av viewet skal endre seg.
Vi må enten 1) detaljert gå inn å endre de delene som nå skal oppdatere seg (errorprone, tidkrevende, skalerer dårlig) eller 2) re-rendre hele viewet (da mister vi f.eks de verdiene som brukeren har skrevet inn, hvis man lager et nytt tekstfelt).



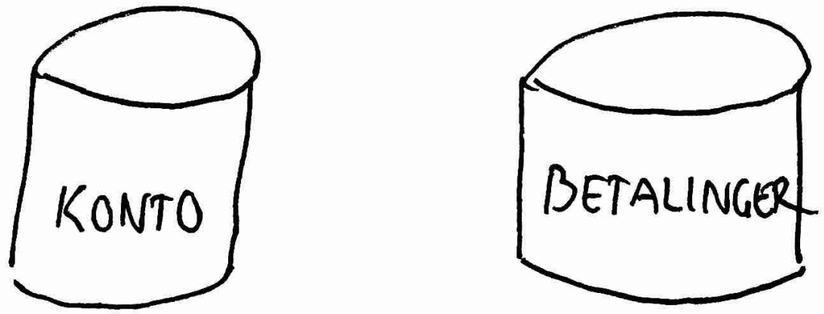



RE-RENDER
ALL THE THINGS
memegenerator.net


DATA
VIEW
HTML
(utseende)

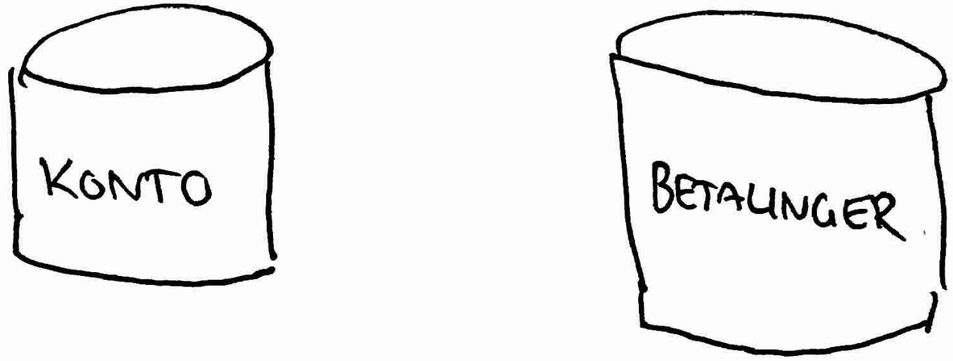
^Da har vi kutta to ansvarsområder fra viewene våre. App state er borte, handlingene er borte, men utseende og visningslogikk består.

Backbone



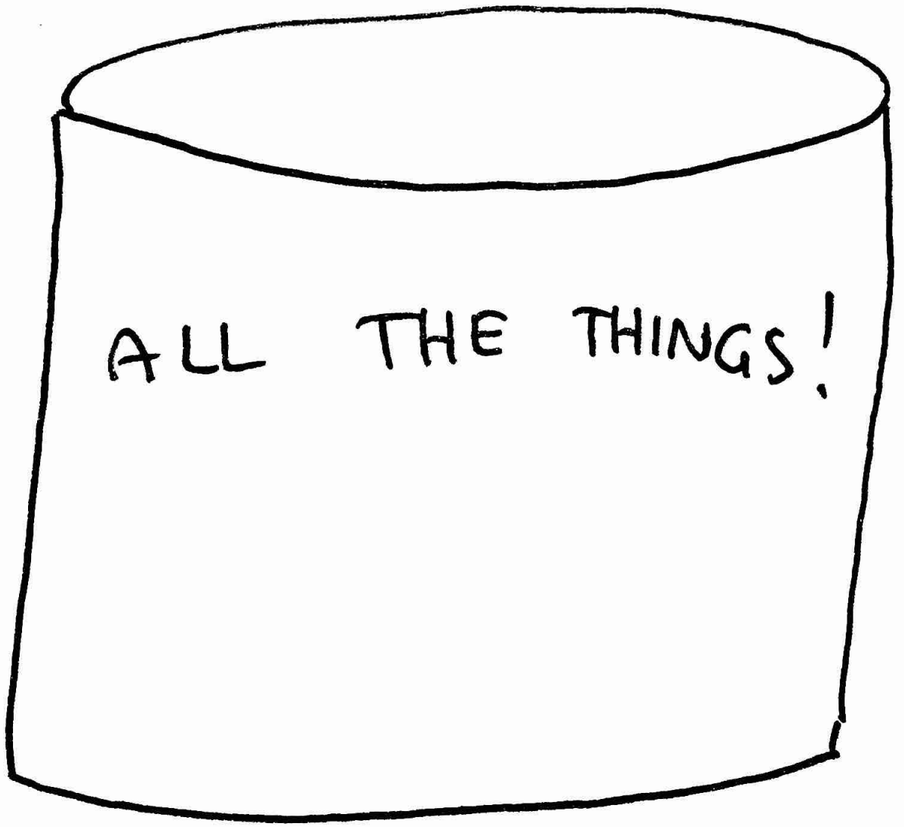
Models

Flux (facebook)

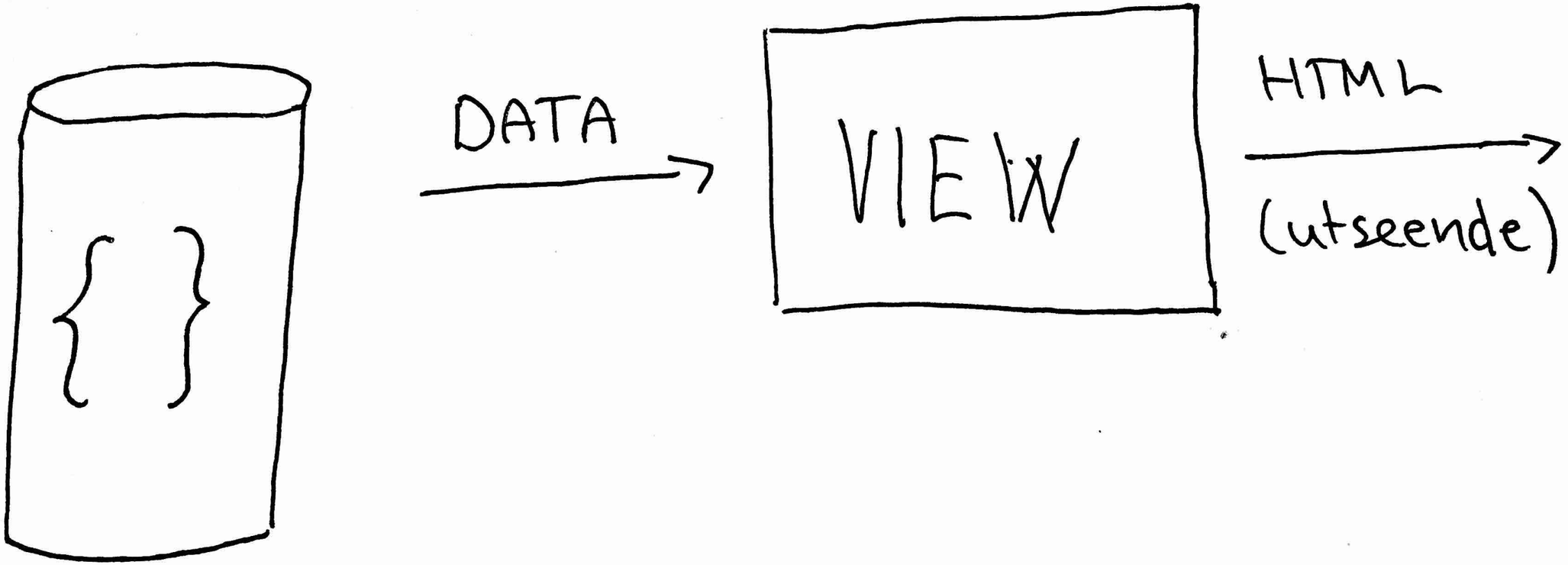


Stores

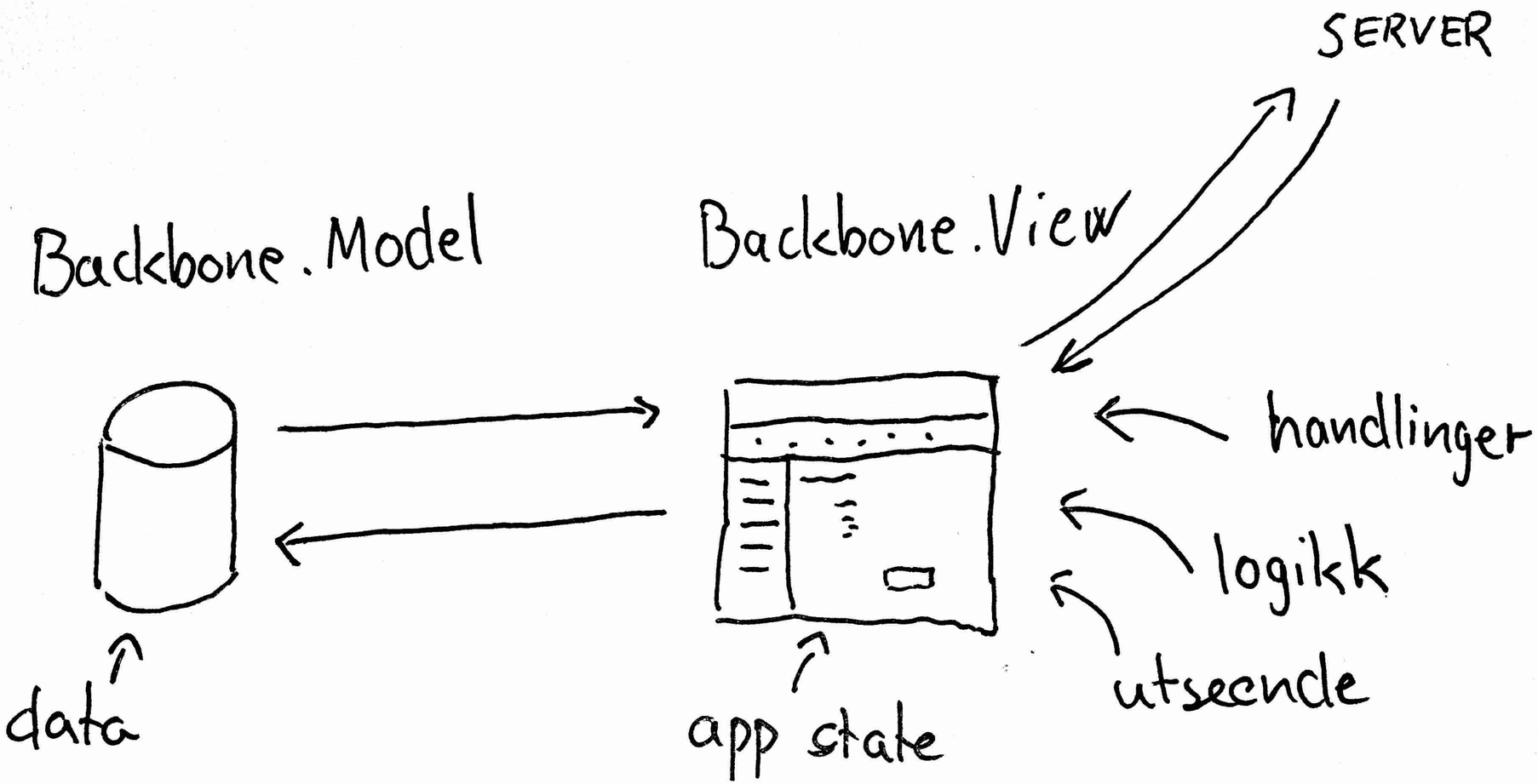
Redux

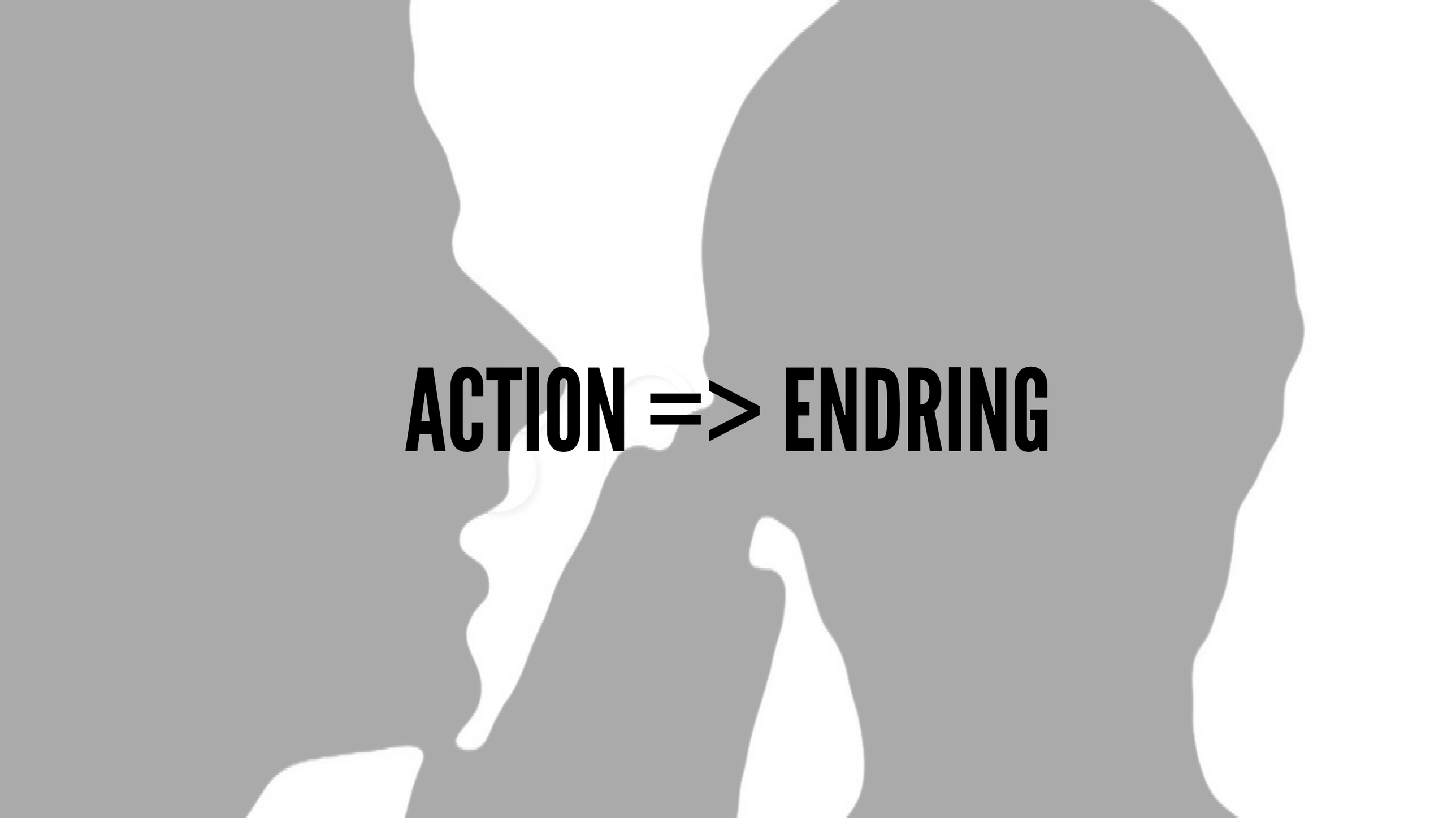


```
const state = {
    accounts: [...],
    creditCards: [...],
    debitCards: [...],
    savingAgreements: [...],
    userDetails: {...},
    ...
}
```


{ }
DATA
VIEW
HTML
(utseende)

Actions


SERVER
Backbone.Model
Backbone.View
handlinger
logikk
utsecncle
data
app state


ACTION => ENDRING

ACTION -> ENDRING

```
// action:
{
    type: 'DELETE_PAYMENT',
    paymentId: '123058572'
}
```

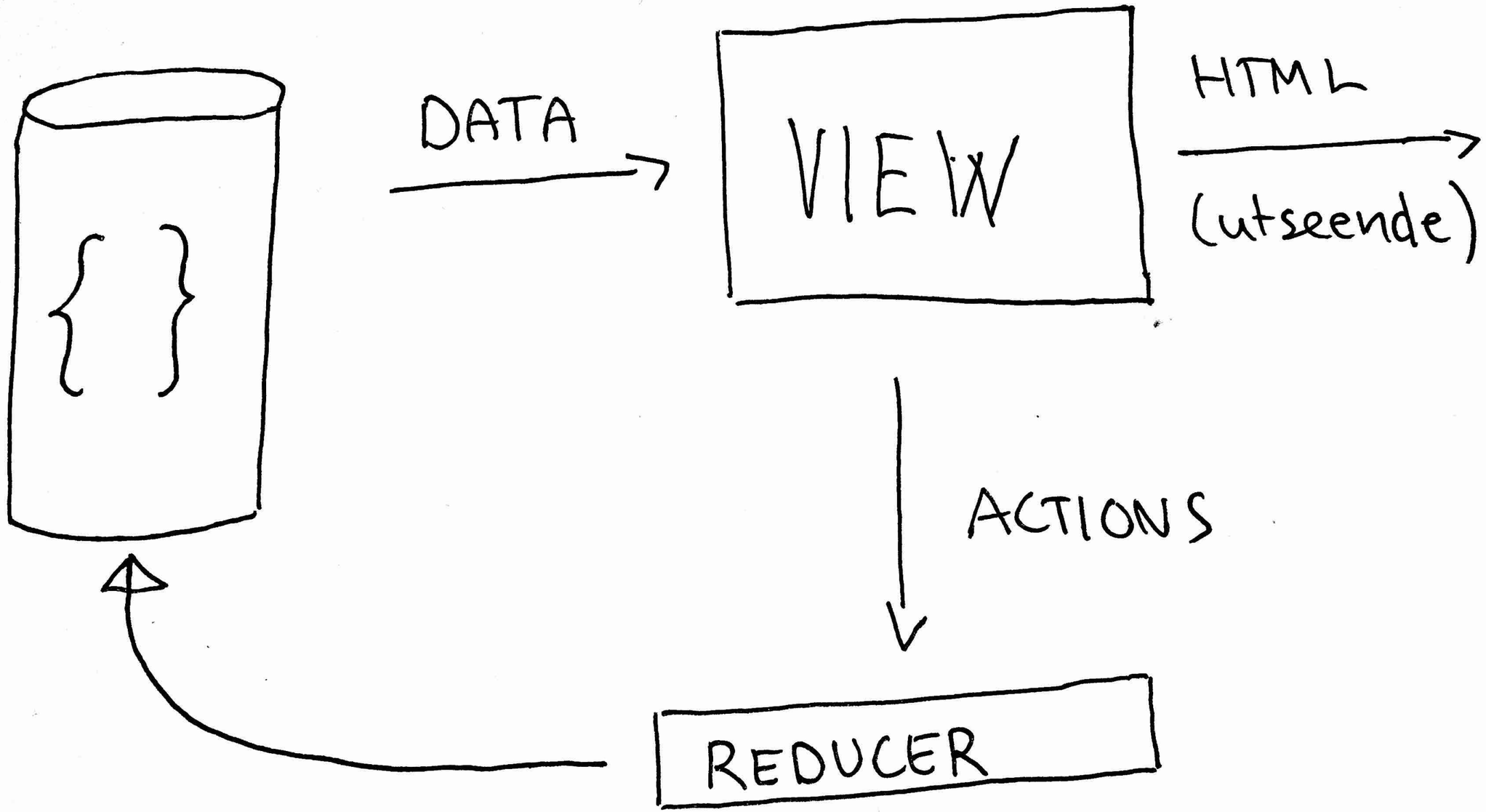
ACTION -> ENDRING

```
// action:
dispatch({
     type: 'DELETE_PAYMENT',
     paymentId: '123058572'
})
```

STATE, ACTION => STATE

STATE, ACTION => STATE

```
function deletePayment(state, action) {
    if (action.type === 'DELETE_PAYMENT') {
        // slett betaling
        return newState;
    }
}
```


{ }
DATA
VIEW
HTML
(utseende)
ACTIONS
REDUCER

REDUCERS:

Små funksjoner + testing = <3

elm

the best of functional programming in your browser

writing great code should be easy ... now it is

try or install

Hello HTML

```
main = span [class "welcome-message"] [text "Hello, World!"]
```

Writing HTML apps is super easy with start-app. Not only does it render extremely fast, it also quietly guides you towards well-architected code.

ARKITEKTURFORDELER:

- enkle funksjoner gjør endringer
- kun ett sted å spore for endringer
- hot reloading
- debug panel
- tydelig ansvarsfordeling
- testing er enklere

Spørsmål?

@ewndl