

0-60 in 15 Minutes

Building a Realtime App With Elm and Horizon

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What is Horizon?

<https://horizon.io>

Horizon is realtime, open source backend for JavaScript apps

Collection API

Read	Write	Modifiers
fetch	remove	above
watch	removeAll	below
	insert	find
	replace	findAll
	store	limit
	update	order
	upsert	

Examples

```
var messages = new Horizon()('messages');
messages
  .findAll({from: 'elm'})
  .limit(5)
  .watch()
  .subscribe(data => { console.log(data); });

messages.store({from: 'elm', msg: 'Hello World!'});
// [{from: 'elm', msg: 'Hello World!'}]

messages.store({from: 'elm', msg: 'From Elm Conference'});
// [{from: 'elm', msg: 'Hello World!'}
//  , {from: 'elm', msg: 'From Elm Conference'}
// ]

messages.store({from: 'abadi', msg: 'Just ignore me!'});
```

Elm

Ports & Subscriptions

[insert image here]

Example

```
subscriptions =
  Sub.batch
    [ watchSub messageDecoder NewMessage
    , insertSub responseDecoder SendMessageResponse
    ]

init =
  ( initialModel
  , watchCmd "messages"
    [ FindAll [{ from = "Elm" }]
    , Limit 5
    ]
  )

update msg model =
  SendMessage message ->
    ( model
    , insertCmd "messages" <| encoder message
    )
```

Demo

Simple Chat App

Source Code

<https://github.com/abadi199/elm-horizon>

Slide

<https://github.com/abadi199/elm-conf>

Thanks

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github.com/abadi199