API-DRIVEN DEVELOPMENT

Let your APIs do the talking

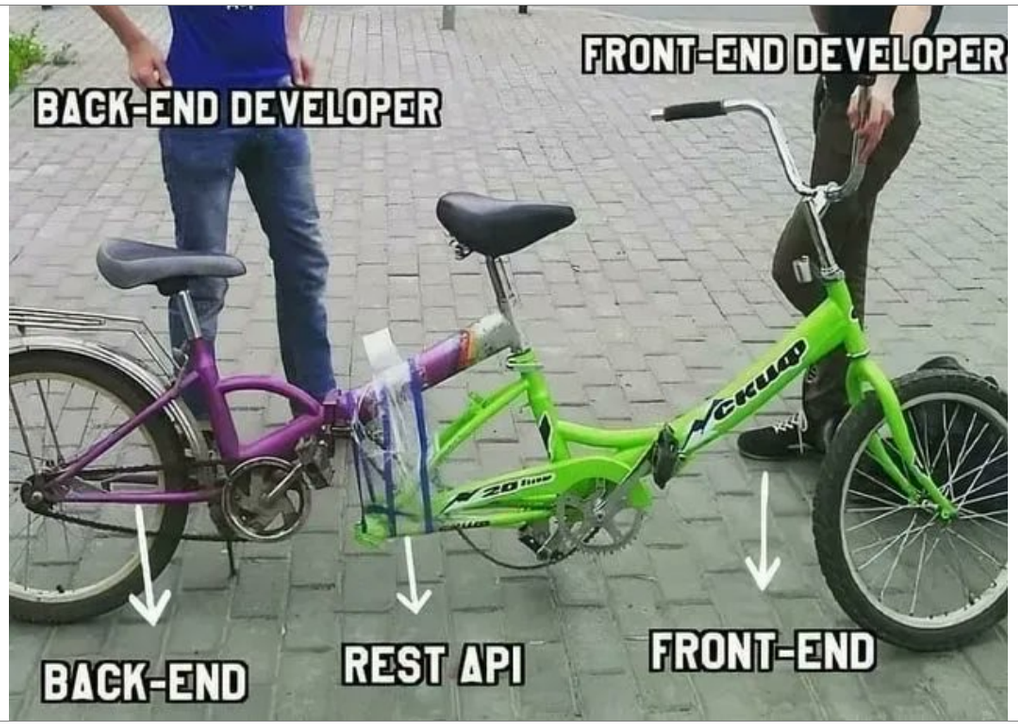
Bjorn Harvold

CHIEF TECHNOLOGY OFFICER
bjorn@iko.travel

AGENDA

- API-driven design
- Demo
- API lifecycle

API DESIGN


BACK-END DEVELOPER
FRONT-END DEVELOPER
BACK-END
REST API
FRONT-END

HORROR STORIES

HATEOAS

```
{
   "id": "10",
   "name": "Pizza Napoli",
   "price": 260,
   "links": [
      {
         "href": "/pizzas",
         "rel": "pizzas",
         "type" : "GET"
      }
   ]
}
```


Hypermedia as the Engine of Application State
“Dynamic web linking”
HAL: Hypermedia API Language
Media type: application/hal+json OR xml

VERBS

- GET (200)
- POST (201)
- PUT (200 / 204)
- PATCH (200 / 204)
- DELETE (200 / 202 / 204)

200 = OK
201 = Created
202 = Accepted
204 = No content

ERROR CODES

- 100x Informational codes
- 200x Success codes
- 300x Redirect codes
- 400x Client error codes
- 500x Server errors

200 = OK
201 = Created
202 = Accepted
204 = No content

OPEN API

- Write docs while you code
- Open API (fka: Swagger)
  - For HTTP-based API designers
  - Supports most languages
  - It’s a standard! => Postman
  - Code generators

DEMO

API LIFECYCLE

- Changes / Deprecations
  - Features
  - Entities
  - End points

- Versioning
  - Consider backwards compatibility
    - Decouple storage / conceptual model
  - URL-based. e.g. /v1/ => /v2/
  - Header based:
    - Accept / Content-Type: application/vnd.my-product-v1+json
    - Custom: “my-product-version” - 1

Q & A

GET IN TOUCH

bjorn@iko.travel

Source

https://github.com/bjornharvold/pizza-delivery-network