BDD AND OPENAPI

Behavior driven development and the OpenAPI Spec

GOALS

- Learn what BDD and OpenAPI is
- See BDD and OpenAPI in action (live-demo!)

The project

Create a simple betting website/api.

Seeing all games

As a user I want to see all games which I can currently bet on.

Betting

As a user I want to be able to bet on one game.

Profile

As a user I want to see my profile including my balance.

THE PROBLEM

Understanding and communicating to the team what the customer wants

ONE SOLUTION

Behavior driven development

Defining Behaviors

Given that there are 5 games available.

When the client looks at all games.

Then the client should see 5 games.

Defining Behaviors II

Given that there is a game available with id 1.

And the client has a balance of 10.

When the client bets 5 on game with id 1.

Then the client should have a balance of 5.

Defining Behaviors III

Given that the client has bet 5 on game with id 1.

And the client has a balance of 10.

When the client won the bet.

Then the client should have a balance of 20.

OpenAPI

API documentation and generator

GET

```
/profile:
get:
   summary: 'Get full profile by id'
   tags:
     - profile
  parameters:
     - name: profileId
       in: path
       required: true
       description: 'The profile id'
       schema:
         type: string
   operationId: getProfileById
   responses:
     '200':
       description: successful operation
       content:
         application/json:
           schema:
             $ref: '#/components/schemas/Profile'
```

POST

```
post:
 summary: 'Bet on a given game'
 tags:
 parameters:
   - name: gameId
     in: path
     required: true
     description: 'The game id to bet on'
     schema:
       type: string
 operationId: betOnGameById
 requestBody:
   content:
     application/json:
       schema:
         $ref: '#/components/schemas/BetRequest'
 responses:
   '200':
```

SCHEMAS

```
Profile:
                                          Game:
 type: object
                                            type: object
 properties:
                                            properties:
   profileId:
                                              gameId:
     type: number
                                                type: number
   name:
                                              name:
     type: string
                                                type: string
   wallet:
                                              done:
     type: number
                                                type: boolean
                                              optionA:
                                                type: string
                                              optionB:
                                                type: string
```

AND MORE

Security Schemes Server Definitions

• • •

What now?

Convert to code!



WORKFLOW

Requirements

BDD statements

OpenAPI Spec

Actual code

Actual code



FIN