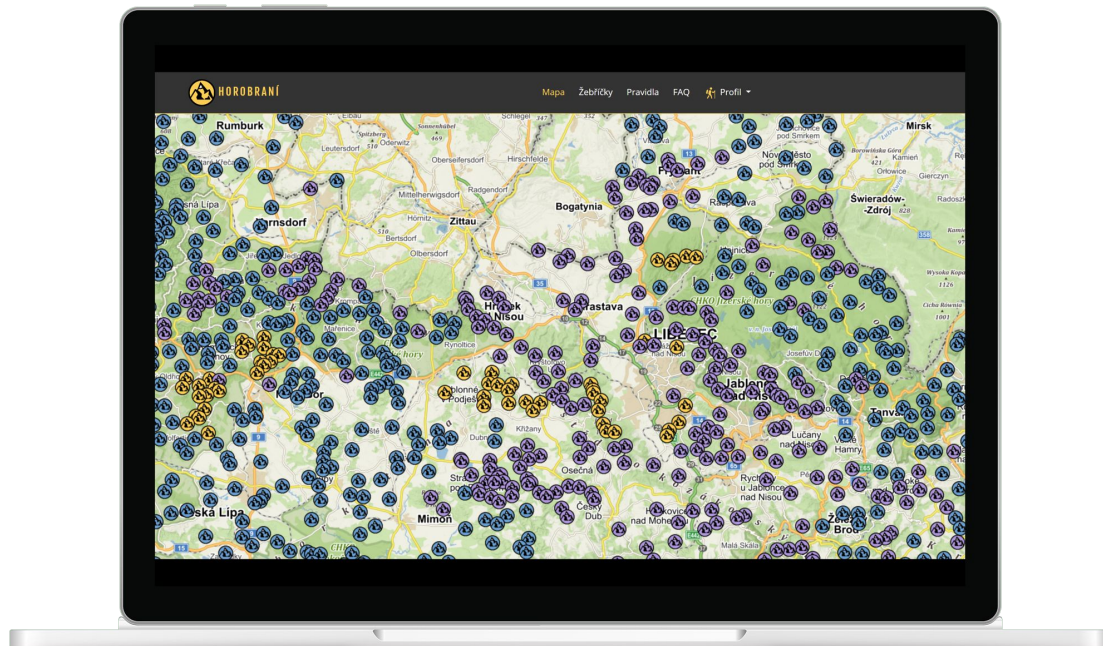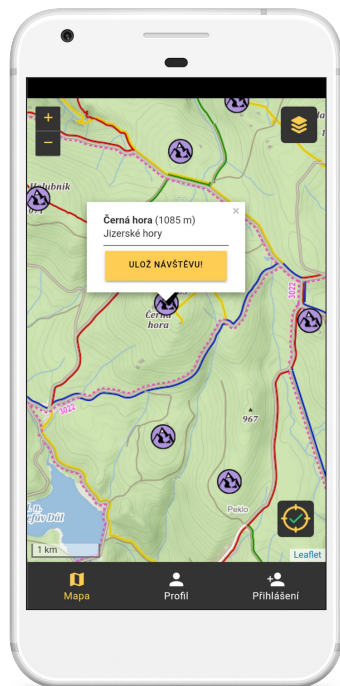# Using R6 classes to communicate with a REST API

Patrik Drhlík

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Take a Peak (Horobraní)

Reading about R6 classes

OOP (object oriented programming) system in R

A nice introduction
https://rstudio-pubs-static.s3.amazonaws.com/24456_042da2fcea0a405a9f07845a872ae7a6.html

Advanced R chapter - https://adv-r.hadley.nz/r6.html

Github - https://github.com/r-lib/R6

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REST API

/api/login

Authorization, generates a
JWT token https://jwt.io/

/data/users

Checks the JWT token and
returns requested data

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```r
Peak <- R6Class(
  classname = "Peak",

  private = list(
    config = NULL,
    production = TRUE,
    login = function() {},
    post = function(api_endpoint, body = NULL, encode = "json") {},
    get_data = function(api_endpoint) {}
  ),

  public = list(
    initialize = function(production = TRUE) {},

    get_users = function() {
      data <- private$get_data("users")
      return(data)
    }
  )
)
```

```
p <- Peak$new()
users <- p$get_users()
```

Contact

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