Authors:

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Ola - Did everything (client communication, server communication, latency calculation code, API, and database+Heroku configuration) except style the forms
Richard - Heroku setup, forms, checking latency, testing the application and file-serving architect (Express static pages)

Documentation:

Our processing layer consists of an endpoint running express with static pages served from the client folder (using express.static() function), and an API route following the REST-spec: create = POST, read = GET, update = PUT, delete = DELETE.

/user endpoint:

filter{} can contain any/every parameter derived from userModel, but we only use student_id in our application.

API will return either HTTP status 200 (OK) or 500 (BAD) depending on the result.

```
RETURN (every crud operation's return):
       {
              user: { userModel[] },
              timestamps:
                                    server_received_timestamp,
                                    server sent timestamp,
                                    server_latency
                             },
              error: {}
       }
CREATE - POST with parameters derived from userModel (Schema):
       {
              firstname.
              surname,
              student id,
              age,
              nationality,
              degree
       }
```

READ - GET with parameter:

```
student id
```

Github:

https://github.com/rlangtinn95/cloud-oblig1.git

Heroku:

https://oblig1ri.herokuapp.com/

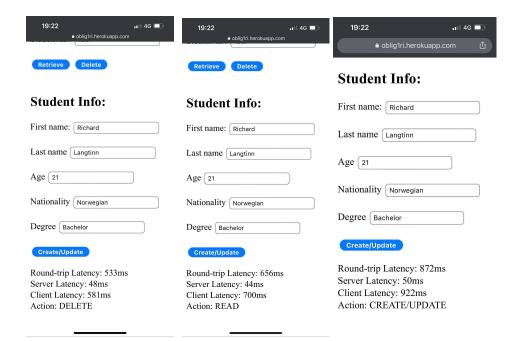
Latency:

Desktop and wi-fi:

Round-trip Latency: 49ms Server Latency: 45ms Client Latency: 94ms Action: READ

Round-trip Latency: 180ms Server Latency: 56ms Client Latency: 236ms Action: CREATE/UPDATE Round-trip Latency: 161ms Server Latency: 51ms Client Latency: 212ms Action: DELETE

Smartphone and mobile connection (4G/5G):



Smartphone and wi-fi:

