TIES4560 SOA and cloud computing week 2 task 1

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Created by: Jere Pakkanen, Miikka Ruohoniemi and Samu Peltonen

Electricity price finder

- Like last week, we continued with the idea of creating a service that will find the cheapest electricity prices in your region.
- This time we only added user interface, changed the previously described geolocator to simple region parameter and added the entries as objects (we did not make a web crawler)

Usage details

- Server: http://localhost:1235/
- Method: searchPrices
- Parameters: East | West | North | South
- Response: Company:[companyName], area:[selectedArea], price:[cheapestPrice]
- No parameter failure: Defaults to south region
- Example address: http://localhost:1235/searchPrices?searchString=East
- Example output: Company:Firma2, area:East, price:20

Shortcomings

- Due to the painful amount of time it took me to get a working web service client, it and the servlet are a bit bare bones
- Also there is only one fairly simple service due to the same fact

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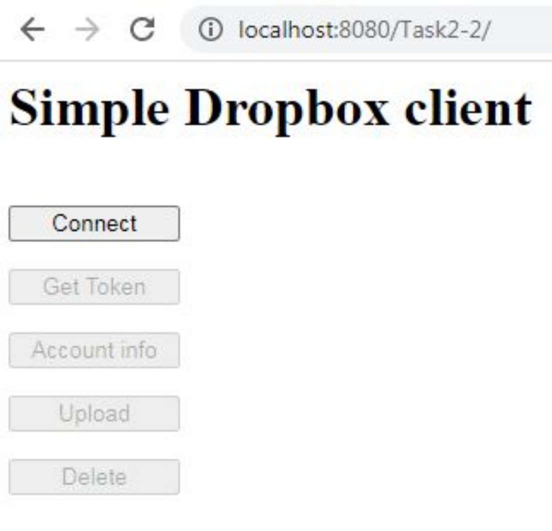
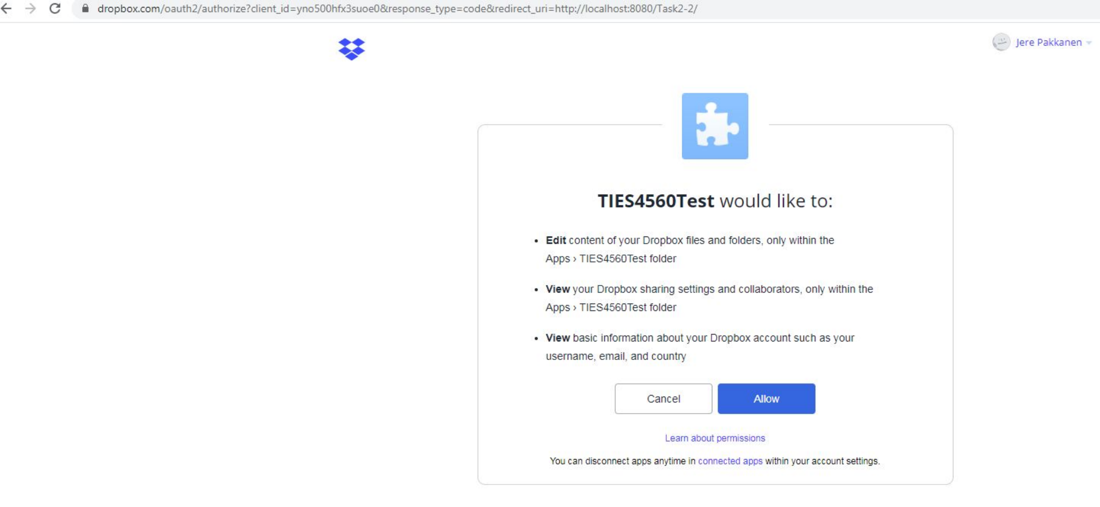
Basics

- Whole project works on javascript and html (build in eclipse as dynamic web/maven project).
- The starting layout is very similar when compared to the example.
- When we press “Connect” user is redirected to the dropbox authorization page.



localhost:8080/Task2-2/

Simple Dropbox client



dropbox.com/oauth2/authorize?client_id=yno500hfx3suoe0&response_type=code&redirect_uri=http://localhost:8080/Task2-2/

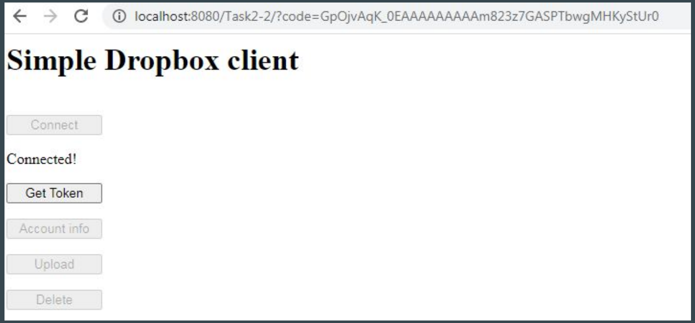
TIES4560Test would like to:

- **Edit** content of your Dropbox files and folders, only within the Apps › TIES4560Test folder
- **View** your Dropbox sharing settings and collaborators, only within the Apps › TIES4560Test folder
- **View** basic information about your Dropbox account such as your username, email, and country

You can disconnect apps anytime in connected apps within your account settings.

After authorization

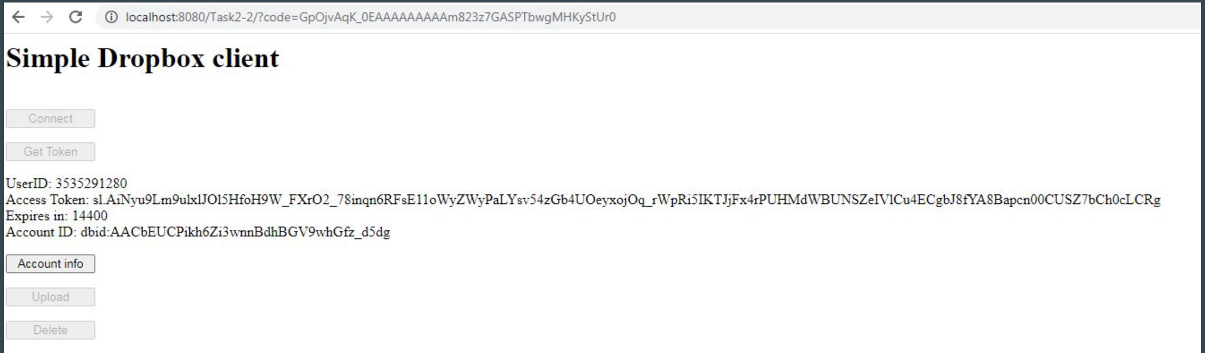
- After authorization, user gets redirected back to the page (note the added query parameter in the uri, it’s the authorization code).
- After this, the user can press “Get Token” button, to get, and show access token, account id and some other stuff.



localhost:8080/Task2-2/?code=GpOjvAqK_0EAAAAAAAAAm823z7GASPTbwgMHKyStUr0

Simple Dropbox client

```
Connected!
```



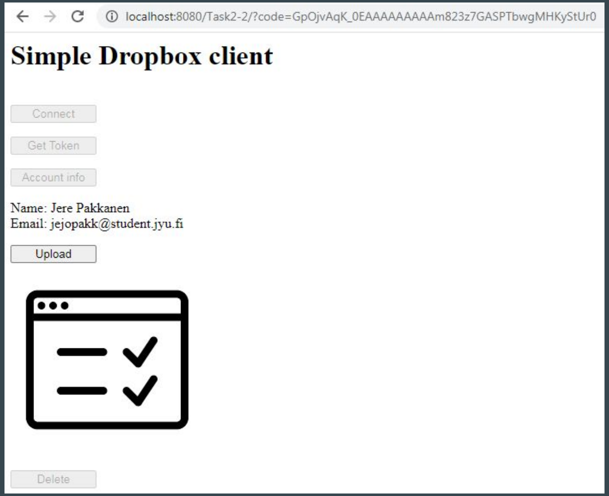
localhost:8080/Task2-2/?code=GpOjvAqK_0EAAAAAAAAAm823z7GASPTbwgMHKyStUr0

Simple Dropbox client

```
UserID: 3535291280
Access Token: sl.AiNyu9Lm9ulxlJOl5HfoH9W_FXrO2_78inqn6RFsE11oWyZWyPaLYsv54zGb4UOeyxojOq_rWpRi5IKTJjFx4rPUHMdWBUNSZeIVlCu4ECgbJ8fYA8Bapcn00CUSZ7bCh0cLCRg
Expires in: 14400
Account ID: dbid:AACbEUCPikh6Zi3wnnBdhBGV9whGfz_d5dg
```

Account information

- After getting the toke, user can press account info, that fetches user name and their email address, with the help of the access token.
- After this user can press upload, to upload, the now unhidden test picture to DropBox.



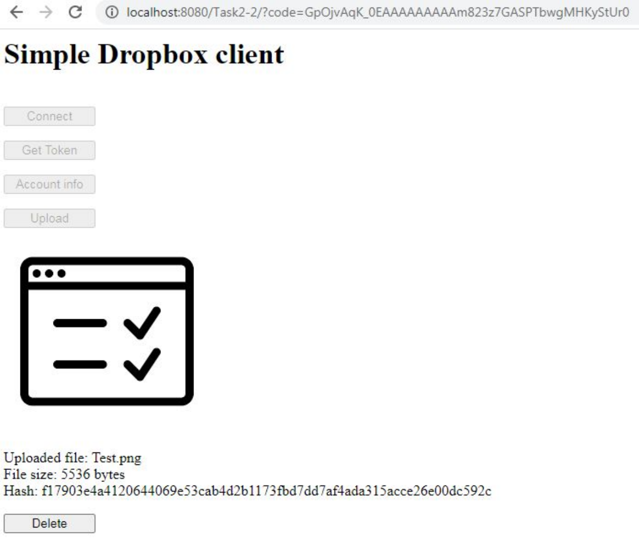
localhost:8080/Task2-2/?code=GpOjvAqK_0EAAAAAAAAAm823z7GASPTbwgMHKyStUr0

Simple Dropbox client

Name: Jere Pakkanen
Email: jejopakk@student.jyu.fi

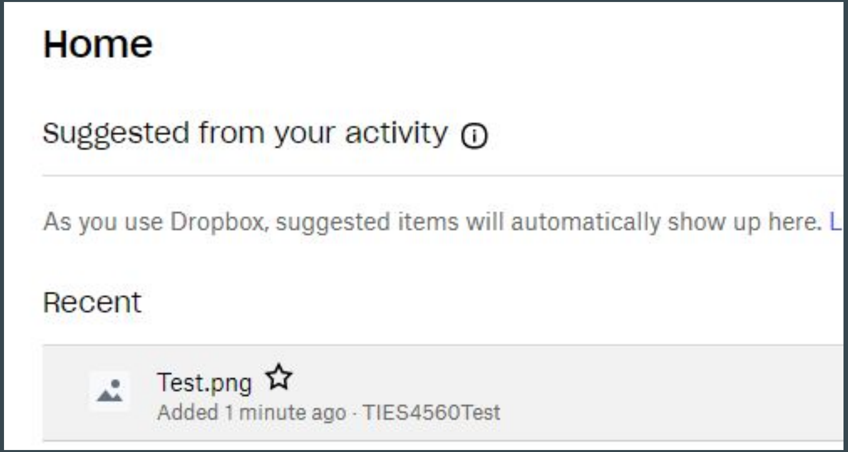
Picture uploaded(ish)

- User gets information about the uploaded file.
- On DropBox side of things a new “image” has appeared.


localhost:8080/Task2-2/?code=GpOjvAqK_0EAAAAAAAAAm823z7GASPTbwgMHKyStUr0
Connect
Get Token
Account info
Upload
Delete

Simple Dropbox client

Uploaded file: Test.png
File size: 5536 bytes
Hash: f17903e4a4120644069e53cab4d2b1173fbd7dd7af4ada315acce26e00dc592c



Home

Suggested from your activity ⓘ

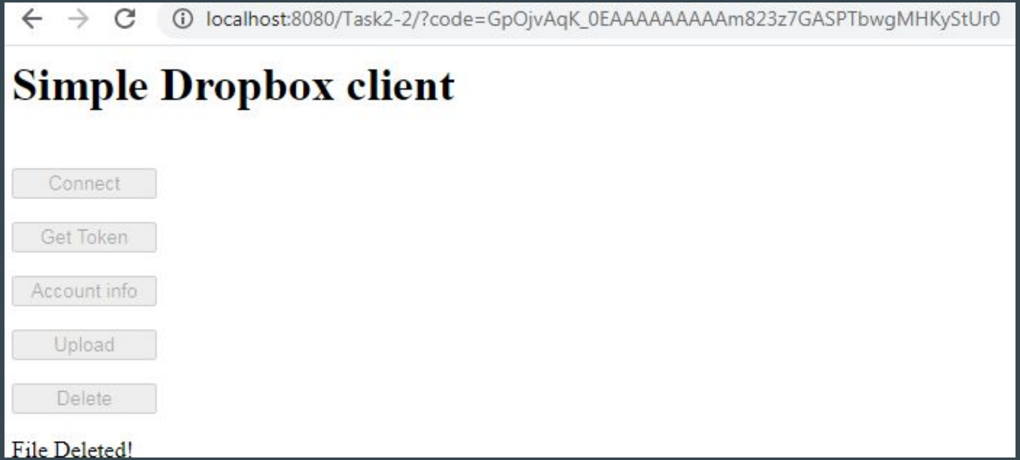
As you use Dropbox, suggested items will automatically show up here. L

Recent

Test.png ☆
Added 1 minute ago · TIES4560Test

Deleting Picture

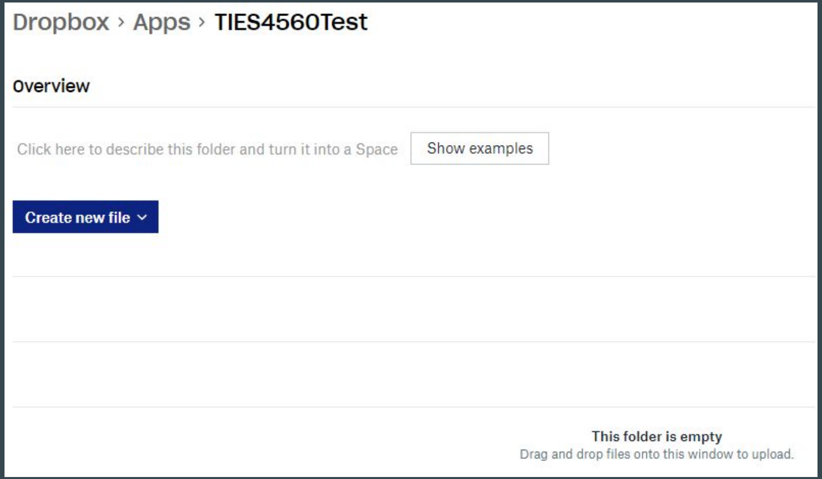
- After uploading the picture, appears button that can delete it
- Confirmation that the picture has been deleted is printed on the screen
- On DropBox the uploaded file is being deleted



localhost:8080/Task2-2/?code=GpOjvAqK_0EAAAAAAAAAm823z7GASPTbwgMHKyStUr0

Simple Dropbox client

File Deleted!



Dropbox › Apps › TIES4560Test

Overview

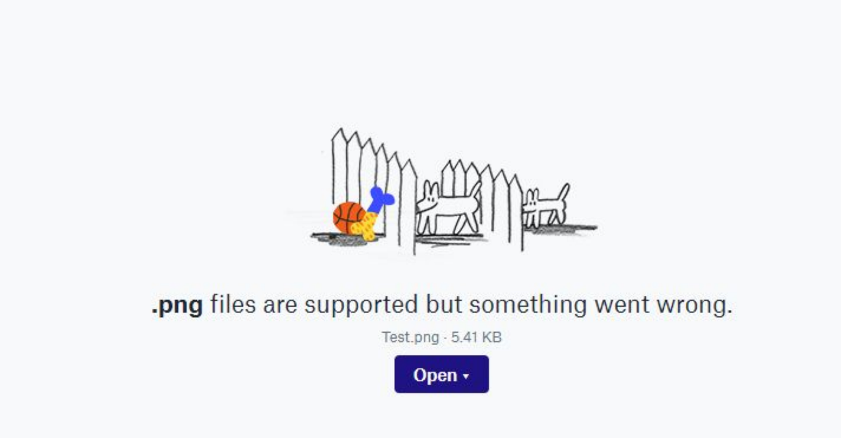
Click here to describe this folder and turn it into a Space

This folder is empty

Drag and drop files onto this window to upload.

Problems

- Unfortunately something is wrong with the picture encoding (we used base64 and also tried to use byte array, binary and hexadecimal presentation, with no avail). This leads to the corrupted picture, that is not readable.



.png files are supported but something went wrong.

Test.png · 5.41 KB