

BOARD PROJECT

박현승

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| BOAARD PROJECT

프로젝트 개요

CANVAS를 이용하여 간단한 메모를 작성,
이미지 파일로 변환 후 서버에 저장,
동시에 Tesseract-OCR 문자 추출을 통해 Text로 변환하는 어플리케이션 개발

사용 기술 및 도구

Java, Spring, Javascript, JQuery
Tesseract, Tomcat, Apache
HTML, CSS
Eclipse, Mysql, Linux

Demonstration

| Sign In, Sign Up

구현 기능

아이디, 비밀번호, 이메일 주소로 회원가입

Input 값 유효성 검사

Spring-security를 활용, 비밀번호 암호화 및 복호화

| Sign In

Board

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localhost:8080 내용:

Please enter your ID.

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| Sign Up

Board

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localhost:8080 내용:


Please enter Email.

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| Sign Out

localhost:8080 내용:
Are you sure you want to sign out?

@test

<  >

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Board

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| Main

구현 기능

메인 이미지

로그인한 회원 아이디 표시, 클릭하여 회원정보 수정 페이지 열기 가능

로그아웃

회원별 메모의 리스트를 불러와 이미지 슬라이드 표현

| Main

Board

@test SIGN OUT

test
E-1 |

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Board

@test SIGN OUT

$\frac{1}{2}$ 21-01

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| Add Note

구현 기능

CANVAS 활용

그리기, 되돌리기, 초기화, 저장, 취소

저장시, **base64** 인코딩, 디코딩 및 **ajax**통신을 통해 이미지 파일 생성

저장된 **PNG**파일을 활용,

Tesseract-OCR 문자추출 후 **IMG** 정보, 파일 및 **Text** 정보 각각 **DB** 저장

| Add Note



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| Add Note

Board

@test SIGN OUT

The diagram shows a 2x2 grid. The top-left cell contains a vertical line and a horizontal line. The top-right cell contains a horizontal line. The bottom-left cell contains a horizontal line. The bottom-right cell contains a horizontal line.

UNDO CLEAR SAVE CANCEL

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Board

@test SIGN OUT

The diagram shows a 2x2 grid. The top-left cell contains a vertical line and a horizontal line. The top-right cell contains a horizontal line. The bottom-left cell contains a horizontal line. The bottom-right cell contains a horizontal line.

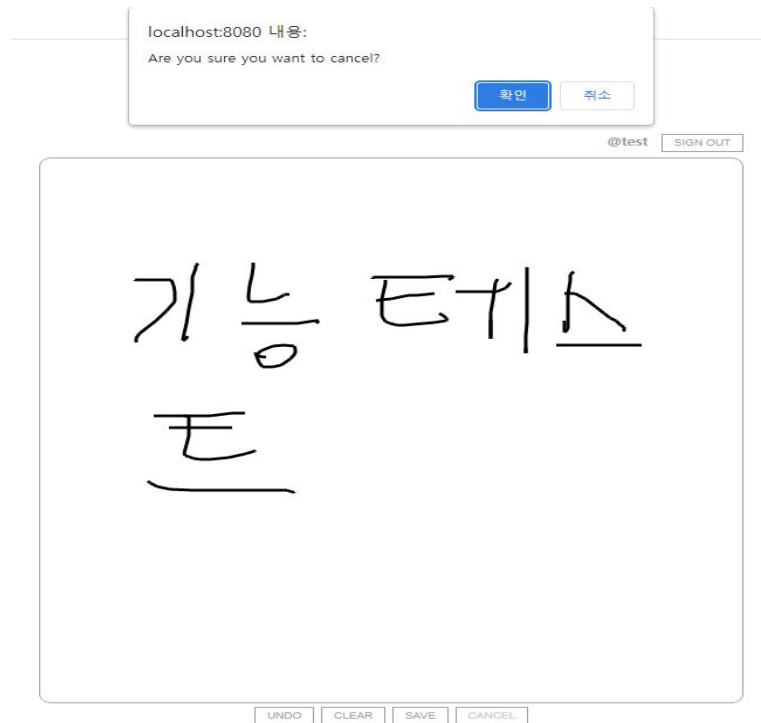
UNDO CLEAR SAVE CANCEL

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| Add Note



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| Add Note

localhost:8080 내용:
Image size is too small.

확인

@test [SIGN OUT](#)

△ 라이
드

[UNDO](#) [CLEAR](#) [SAVE](#) [CANCEL](#)

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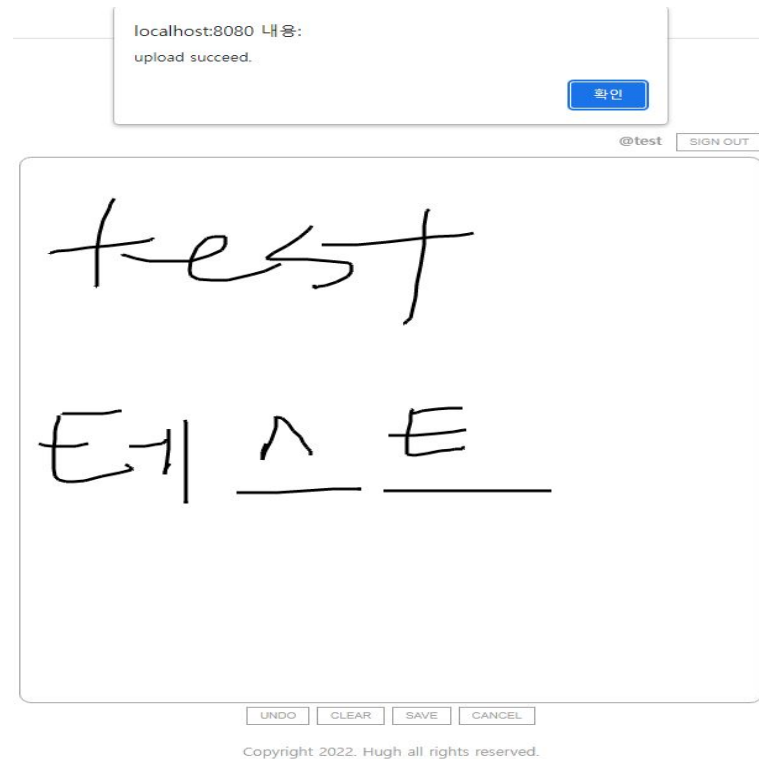
Board

@test [SIGN OUT](#)

△ 라이드

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| Add Note



| Text

구현 기능

이미지 리스트 클릭시 DB의 해당되는 Text를 Textarea에 표시

Text 수정

삭제시 Text와 해당하는 IMG 파일 정보 삭제

| Text



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| Text

localhost:8080 내용:
Modify Succeed.

확인

test
테스트

@test SIGN OUT

MODIFY DELETE CANCEL

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Board

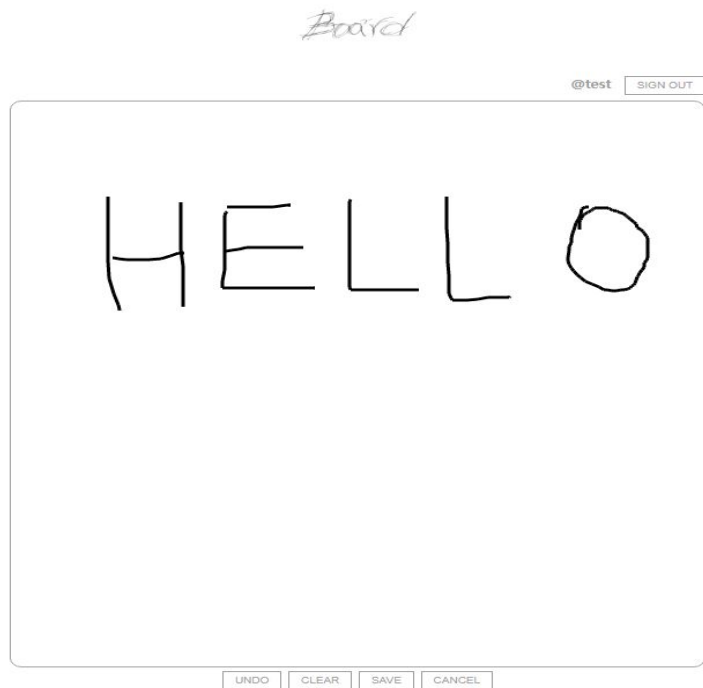
test
테스트

@test SIGN OUT

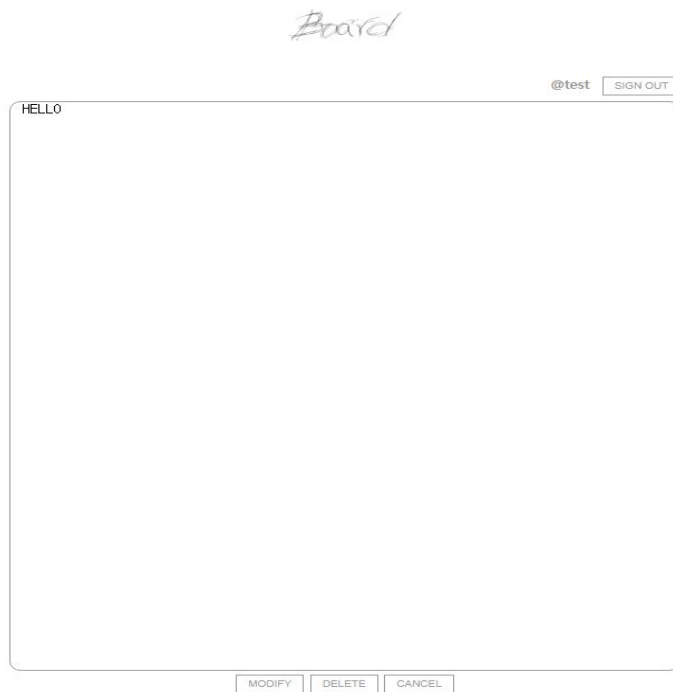
MODIFY DELETE CANCEL

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| Text



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| Text

localhost:8080 내용:
Are you sure you want to delete?

확인 취소

@test SIGN OUT

test
테스트

MODIFY DELETE CANCEL

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localhost:8080 내용:
Delete Succeed.

확인

@test SIGN OUT

test
테스트

MODIFY DELETE CANCEL

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| Account

구현 기능

비밀번호 및 이메일 변경

회원탈퇴

| Account

Board

@test SIGN OUT

< 2 3 4 5 >

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localhost:8080 내용:
Please enter your current password.

확인

@test SIGN OUT

< 2 3 4 5 >

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| Account

localhost:8080 내용:
Are you sure you want to modify?

확인 취소

@test SIGN OUT

< 2 3 4 5 >

test

test@1234.com

MODIFY

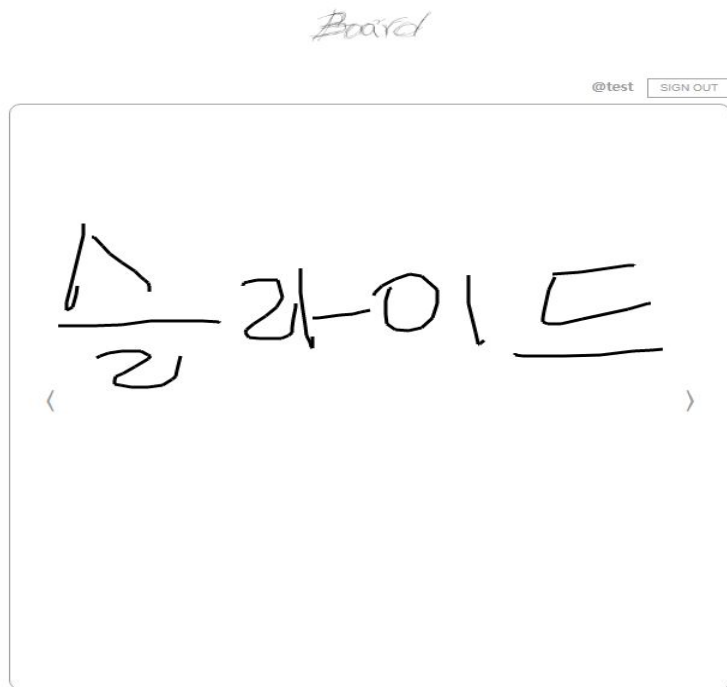
WITHDRAWAL

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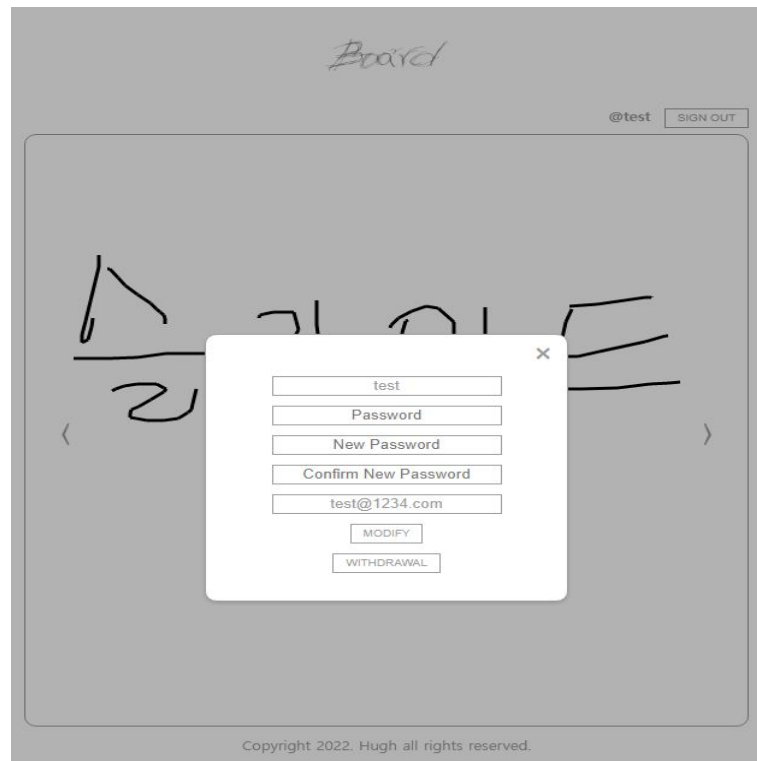
localhost:8080 내용:
Modify Succeed.

확인

| Account



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| Account

localhost:8080 내용:
Are you sure you want to withdraw?

확인 취소

@test SIGN OUT

test

Password

New Password

Confirm New Password

test@1234.com

MODIFY

WITHDRAWAL

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localhost:8080 내용:
Password is incorrect.

확인

@test SIGN OUT

test

Password

New Password

Confirm New Password

test@1234.com

MODIFY

WITHDRAWAL

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| Account

localhost:8080 내용:
Withdrawal Succeed.

확인

@test SIGN OUT

test

New Password

Confirm New Password

test@1234.com

MODIFY

WITHDRAWAL

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Board

ID

Password

SIGN IN

SIGN UP

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| Database

구현 기능

회원 테이블

메모 **IMG** 테이블

추출 **Text** 테이블

Database

```
db_boaard x
1 CREATE DATABASE db_boaard;
2 USE db_boaard;
3
4 CREATE TABLE tbl_user (
5     u_no INT AUTO_INCREMENT PRIMARY KEY NOT NULL,
6     u_id VARCHAR(10) NOT NULL,
7     u_pw VARCHAR(100) NOT NULL,
8     u_email VARCHAR(30),
9     u_reg_date DATETIME,
10    u_mod_date DATETIME
11 );
12
13 CREATE TABLE tbl_note (
14     n_no INT AUTO_INCREMENT PRIMARY KEY NOT NULL,
15     u_no INT,
16     n_name VARCHAR(50) NOT NULL,
17     n_reg_date DATETIME,
18     FOREIGN KEY (u_no) REFERENCES tbl_user(u_no) ON DELETE SET NULL
19 );
20
21 CREATE TABLE tbl_conversion (
22     c_no INT AUTO_INCREMENT PRIMARY KEY NOT NULL,
23     n_no INT,
24     c_text VARCHAR(1000) NOT NULL,
25     c_reg_date DATETIME,
26     c_mod_date DATETIME,
27     FOREIGN KEY (n_no) REFERENCES tbl_note(n_no) ON DELETE CASCADE
28 );
29
```

u_no	u_id	u_pw	u_email	u_reg_date	u_mod_date
5	test	\$2a\$10\$Sq44wip0QkylJaz2S8Yeh87U3x5xPCoTTtHf2gMOAR2J5glnu	test@test.com	2022-12-13 05:09:19	2022-12-13 05:09:19
*	NULL	NULL	NULL	NULL	NULL

tbl_user 1 x tbl_note 2 tbl_conversion 3

	n_no	u_no	n_name	n_reg_date
	14	NULL	202212120731406782740_u_no_2.png	2022-12-12 07:31:45
	54	NULL	202212131401554131703_u_no_3.png	2022-12-13 05:01:57
	55	5	202212131411409522664_u_no_5.png	2022-12-13 05:11:43
	56	5	202212131412345161047_u_no_5.png	2022-12-13 05:12:36
*	NULL	NULL	NULL	NULL

tbl_user 4 tbl_note 5 x tbl_conversion 6

	c_no	n_no	c_text	c_reg_date	c_mod_date
	14	14	e	2022-12-12 07:31:45	2022-12-12 07:31:45
	54	54	슬라이드	2022-12-13 05:01:57	2022-12-13 05:05:38
	55	55	test	2022-12-13 05:11:43	2022-12-13 05:11:57
	56	56	㉠ V) ...	2022-12-13 05:12:36	2022-12-13 05:12:36
*	NULL	NULL	NULL	NULL	NULL

tbl_user 4 tbl_note 5 tbl_conversion 6 x

끝