

# jbnu-se-voting

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Jae Hyeon Kim

# — Contents


1. Service Introduce
2. Service Architecture
3. Service Maintenance

# **Service Introduce**

# Service Introduce

- 학과 내에서 온라인 기밀 투표를 하기 위해 개발한 전북대학교 소프트웨어공학과의 온라인 투표 서비스

2022학년도 전북대학교 소프트웨어공학과 학생회장 투표



학번

비밀번호

로그인

※ 학번과 비밀번호는 오직 투표를 위해서만 쓰입니다.


투표 결과 보기

# — Tech Usage

- Bootstrap 4
- Node 16.18.0
- Mongo DB 4.2.3 (Mongoose ^5.9.4)

## — Screen Shot

2022학년도 전북대학교 소프트웨어공학과 학생회장 투표



학번

비밀번호

로그인

※ 학번과 비밀번호는 오직 투표를  
위해서만 쓰입니다.

투표 결과 보기

# Screen Shot

## 2022학년도 전북대학교 소프트웨어공학과 학생회장 투표

2022학년도 전북대학교 소프트웨어공학과 학생회장 선거는 온라인으로 실시합니다.

**정후보: 21학번 주은정**  
**부후보: 20학번 강연범**

[후보자 정보](#)

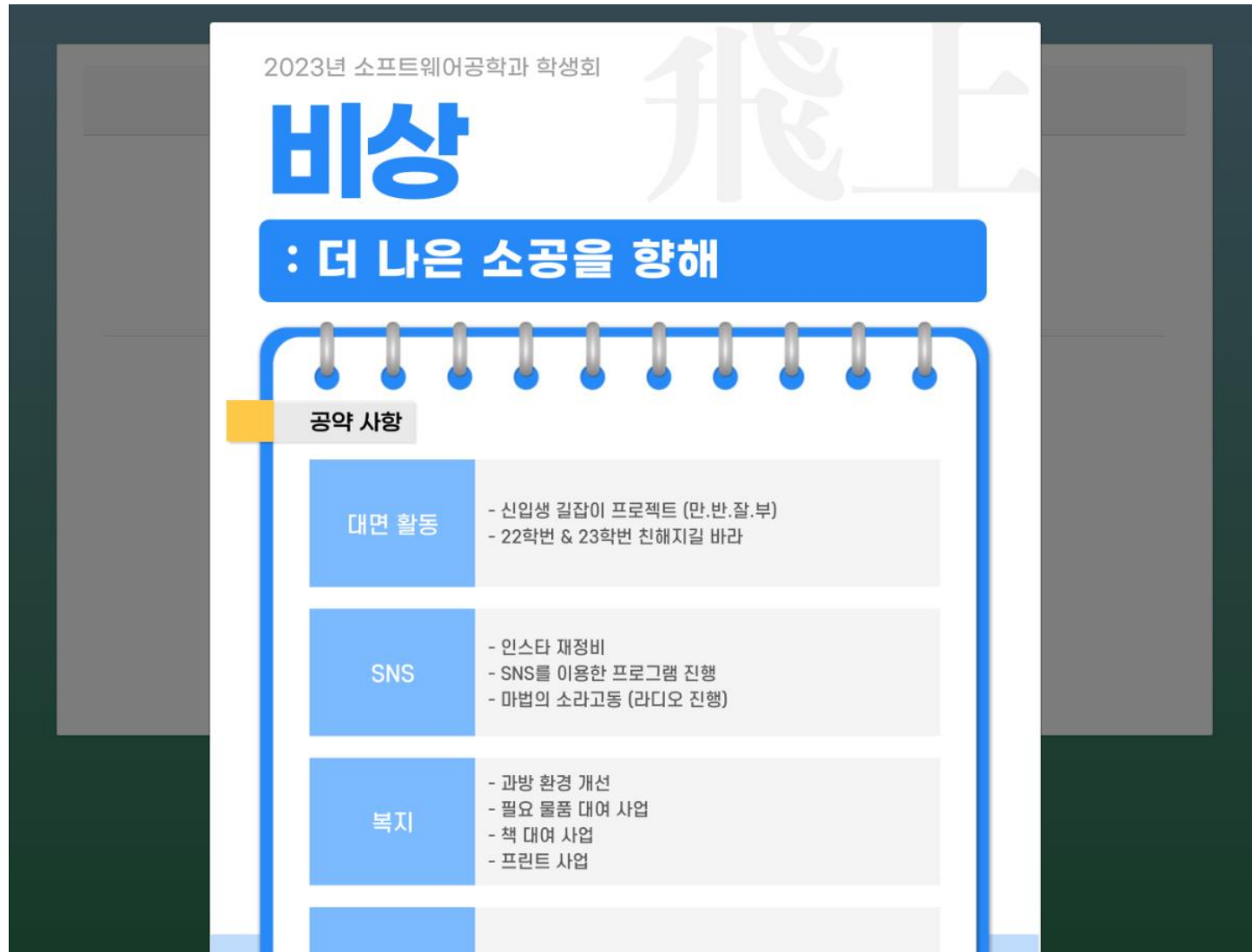
---

위 단일 후보에 대해 투표를 해주십시오.  
※ 투표 기회는 1번이며 재투표는 불가능합니다.

☐ 찬성  
☐ 반대  
☐ 무효

제출

# Screen Shot





## — Screen Shot

투표에 참여해주셔서 감사합니다. 2022년 11월 15일 18:30 이후 결과가 공개됩니다.

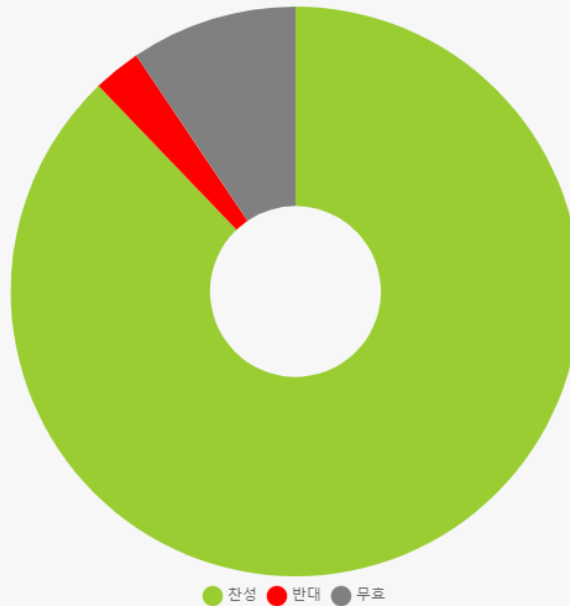
## — Screen Shot

이미 투표를 하셨습니다. 2022년 11월 15일 18:30 이후 결과가 공개됩니다.

# Screen Shot

## 2022학년도 전북대학교 소프트웨어공학과 학생회장 선거 개표 결과

개표자: 김재현(개표위원장)



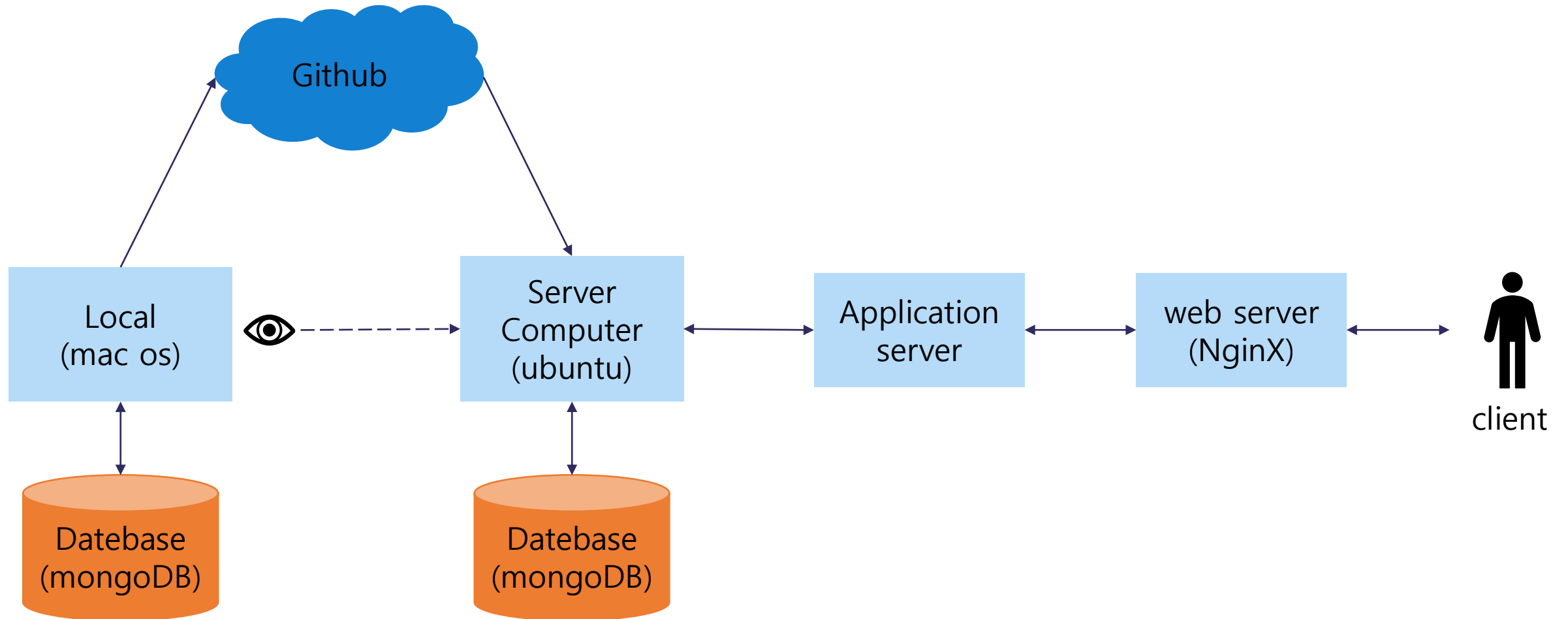
유권자 수: 107명 투표자 수: 73명

찬성: 65명 반대: 2명 무효: 7명

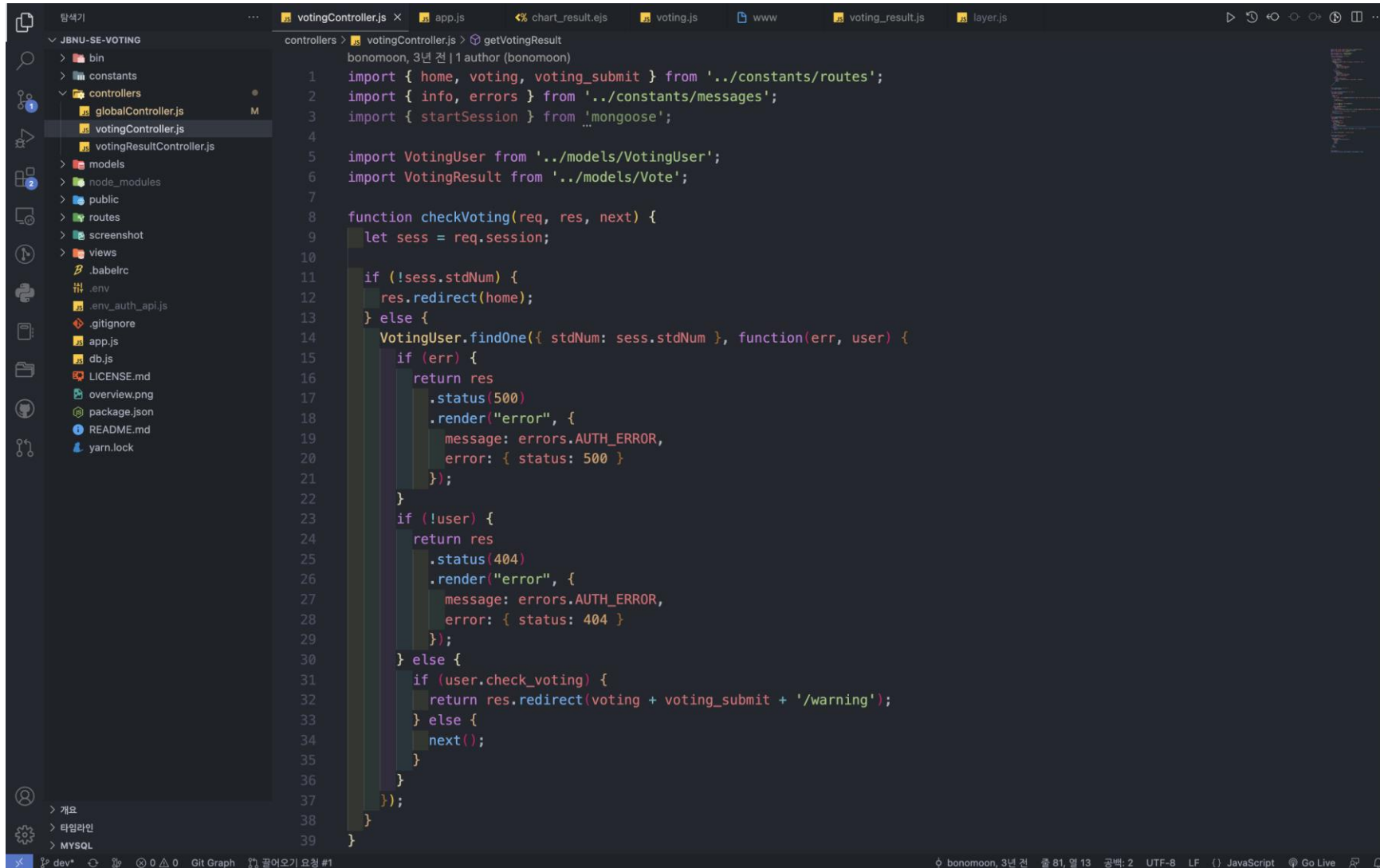
결과: 단일 후보 찬성이 2/3 넘었으므로 정후보 주은정, 부후보 강연범이 당선되었습니다.

# Development Pipeline

# Development Pipeline

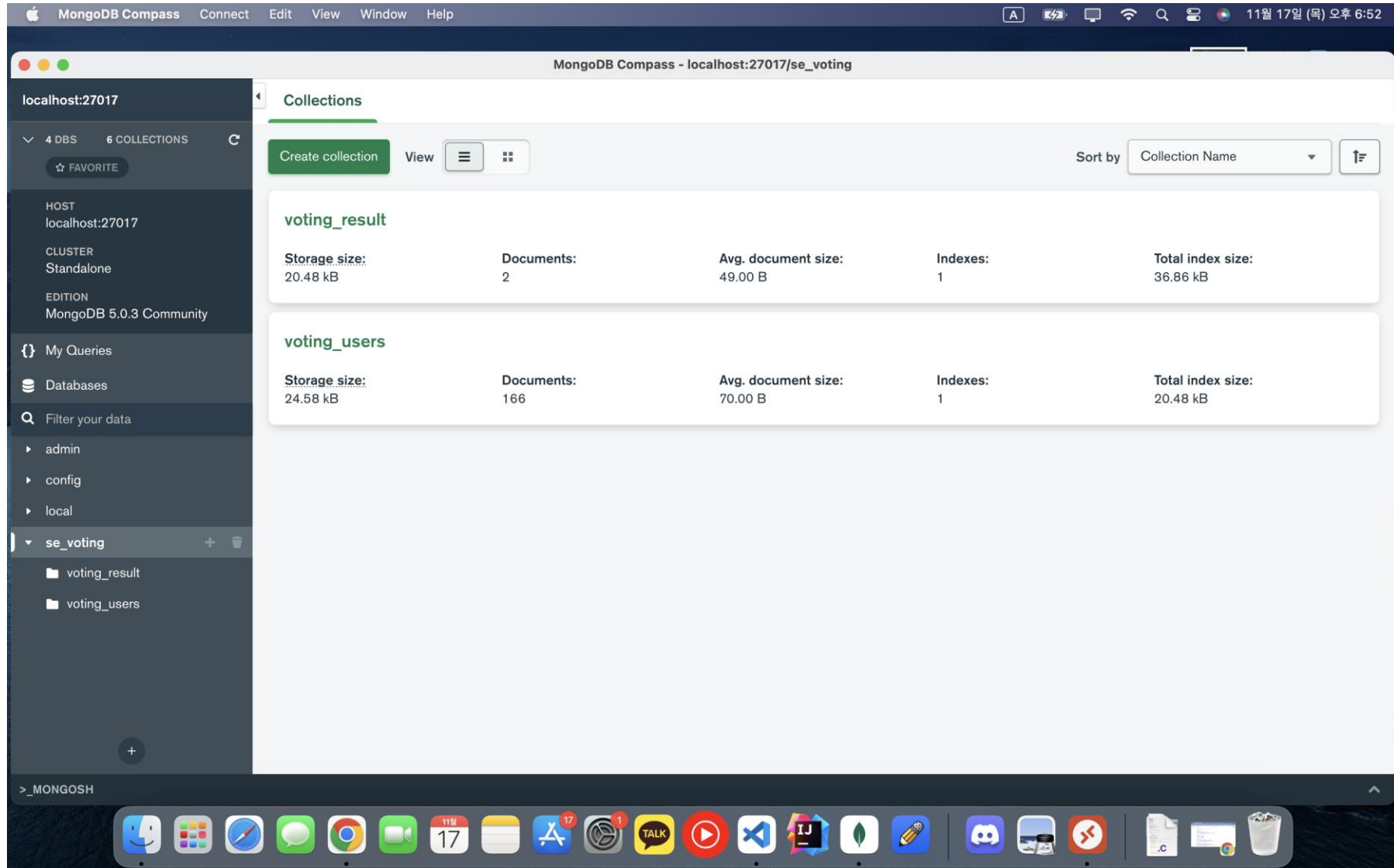


# Local Development Environment

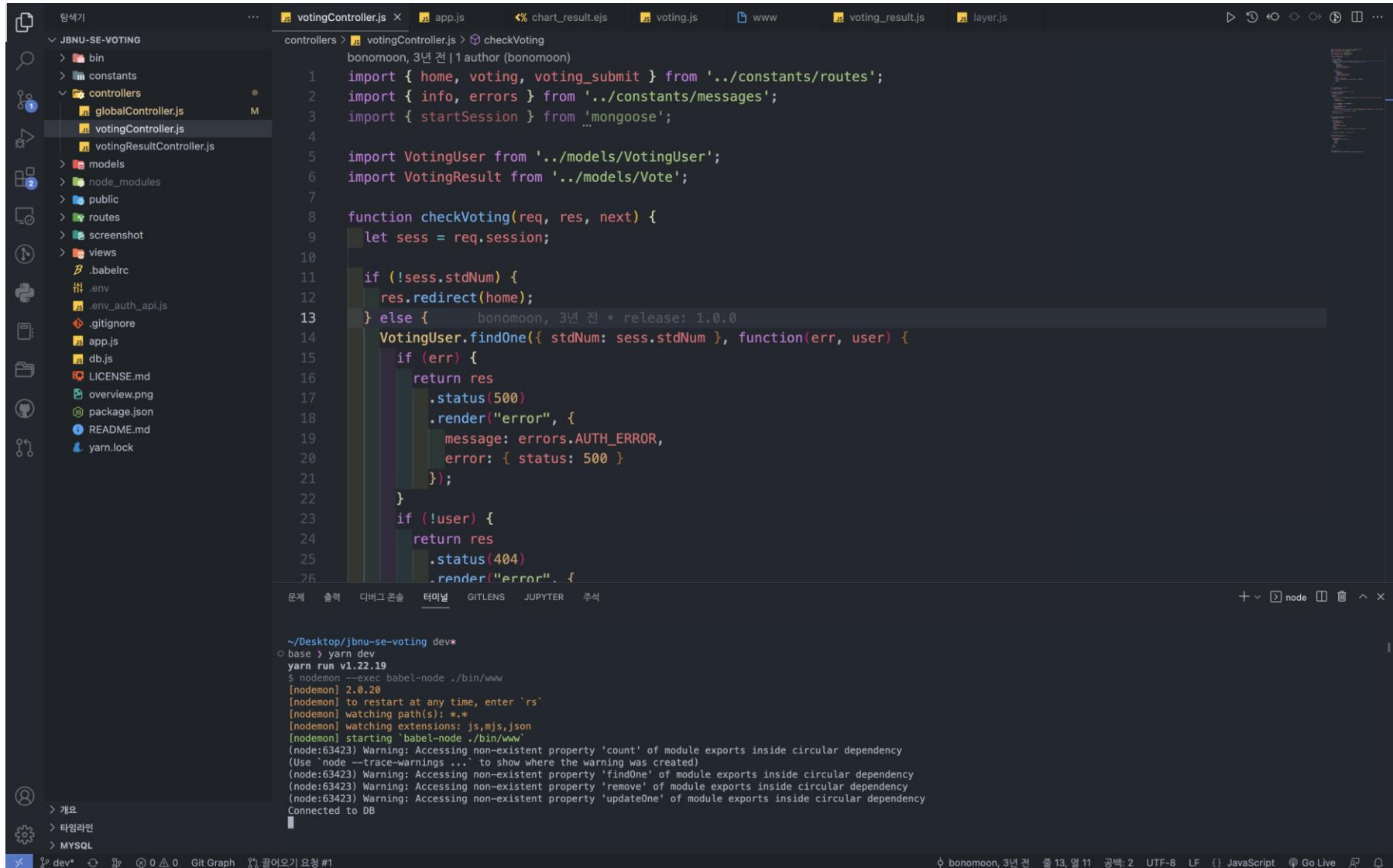


```
1 import { home, voting, voting_submit } from '../constants/routes';
2 import { info, errors } from '../constants/messages';
3 import { startSession } from 'mongoose';
4
5 import VotingUser from '../models/VotingUser';
6 import VotingResult from '../models/Vote';
7
8 function checkVoting(req, res, next) {
9   let sess = req.session;
10
11   if (!sess.stdNum) {
12     res.redirect(home);
13   } else {
14     VotingUser.findOne({ stdNum: sess.stdNum }, function(err, user) {
15       if (err) {
16         return res
17           .status(500)
18           .render("error", {
19             message: errors.AUTH_ERROR,
20             error: { status: 500 }
21           });
22       }
23       if (!user) {
24         return res
25           .status(404)
26           .render("error", {
27             message: errors.AUTH_ERROR,
28             error: { status: 404 }
29           });
30       } else {
31         if (user.check_voting) {
32           return res.redirect(voting + voting_submit + '/warning');
33         } else {
34           next();
35         }
36       }
37     });
38   }
39 }
```

# Local Development Environment



# Local Development Environment

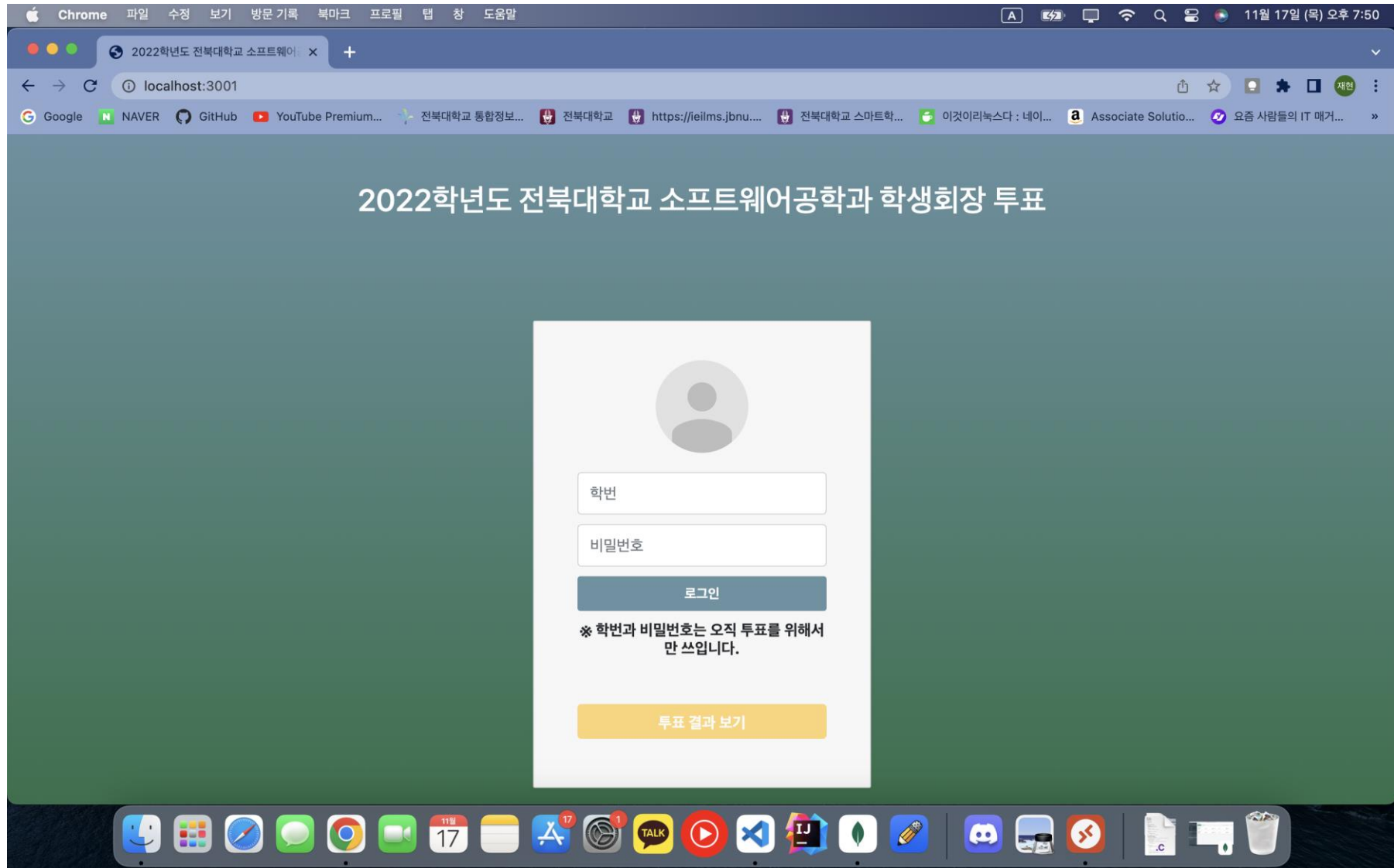


```
bonomoon, 3년 전 | 1 author (bonomoon)
1 import { home, voting, voting_submit } from '../constants/routes';
2 import { info, errors } from '../constants/messages';
3 import { startSession } from 'mongoose';
4
5 import VotingUser from '../models/VotingUser';
6 import VotingResult from '../models/Vote';
7
8 function checkVoting(req, res, next) {
9   let sess = req.session;
10
11   if (!sess.stdNum) {
12     res.redirect(home);
13   } else {
14     VotingUser.findOne({ stdNum: sess.stdNum }, function(err, user) {
15       if (err) {
16         return res
17           .status(500)
18           .render('error', {
19             message: errors.AUTH_ERROR,
20             error: { status: 500 }
21           });
22       }
23       if (!user) {
24         return res
25           .status(404)
26           .render('error', {
27             message: errors.USER_NOT_FOUND,
28             error: { status: 404 }
29           });
30       }
31       next();
32     }
33   }
34 }
35
36
```


```
~/Desktop/jbnu-se-voting dev*
base > yarn dev
yarn run v1.22.19
$ node --exec babel-node ./bin/www
[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `babel-node ./bin/www`
(node:63423) Warning: Accessing non-existent property 'count' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:63423) Warning: Accessing non-existent property 'findOne' of module exports inside circular dependency
(node:63423) Warning: Accessing non-existent property 'remove' of module exports inside circular dependency
(node:63423) Warning: Accessing non-existent property 'updateOne' of module exports inside circular dependency
Connected to DB
```



# Local Development Environment



# Git Remote Repository



**AM:PM**  
전북대학교 소프트웨어공학과 알고리즘 및 학술 동아리  
2 followers · 대한민국 전라북도 전주시 · <http://ampmjbnu.ac.kr> · [ampmjbnu.315@gmail.com](mailto:ampmjbnu.315@gmail.com)

Unfollow

Overview


Repositories 6


Projects

Packages



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Pinned

 **ampm-site** Public  
AM:PM 홈페이지  
JavaScript · 5 stars · 4 forks

 **2019\_ampm\_2nd\_hackathon** Public  
2019 제 2회 AM:PM 해커톤 info

People



Top languages

JavaScript · EJS

Report abuse

Repositories

Type ▾

Language ▾

Sort ▾

**2022\_ampm\_4th\_hackathon** Public  
6 stars · 0 forks · 0 issues · 0 pull requests · Updated 2 days ago

**jbnu-se-voting** Public  
전북대학교 소프트웨어공학과 온라인 투표 시스템  
EJS · 1 star · MIT · 2 forks · 0 issues · 0 pull requests · Updated 3 days ago

**ampm-site** Public  
AM:PM 홈페이지  
JavaScript · 5 stars · MIT · 4 forks · 6 (2 issues need help) pull requests · Updated 8 days ago

# Git Remote Repository

The screenshot displays the GitHub interface for the repository `ampm-jbnu / jbnu-se-voting`. The page shows the commit history for the `master` branch, with commits grouped by date.

**Commits on Nov 14, 2022**

- Merge pull request #13 from kiku99/master (Verified, a40e9c9)
- bonomoon committed 3 days ago
- Update README.md (Verified, 2ff99bf)
- kiku99 committed 3 days ago
- Update README.md (Verified, 727b051)
- kiku99 committed 3 days ago

**Commits on Nov 13, 2022**

- Merge pull request #3 from kiku99/dev (Verified, e7c7c58)
- kiku99 committed 4 days ago
- 주석 추가 (6afa13d)
- kiku99 committed 4 days ago
- 투표 종료시 로그인 버튼 비활성화 (4f16853)
- kiku99 committed 4 days ago
- dev server timer (061a581)
- kiku99 committed 4 days ago
- timer, view changer 구현중 (6f63202)
- kiku99 committed 4 days ago

**Commits on Nov 12, 2022**

- readme 수정 (21b7676)
- kiku99 committed 5 days ago

# Server Environment

```
root@DESKTOP-TMAV147: ~
root@DESKTOP-TMAV147:~# ssh ampm@ampm.jbnu.ac.kr -p 1001
ampm@ampm.jbnu.ac.kr's password: _
```

```
ampm@ubuntu-ampm-webserver: ~
root@DESKTOP-TMAV147:~# ssh ampm@ampm.jbnu.ac.kr -p 1001
ampm@ampm.jbnu.ac.kr's password:
Permission denied, please try again.
ampm@ampm.jbnu.ac.kr's password:
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-52-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:    https://landscape.canonical.com
 * Support:       https://ubuntu.com/advantage

System information as of Thu Nov 17 11:27:00 AM UTC 2022

System load: 0.080078125      Processes:            259
Usage of /:  25.1% of 48.91GB  Users logged in:     1
Memory usage: 23%            IPv4 address for ens192: 192.168.200.101
Swap usage:  1%

 * Strictly confined Kubernetes makes edge and IoT secure. Learn how MicroK8s
   just raised the bar for easy, resilient and secure K8s cluster deployment.

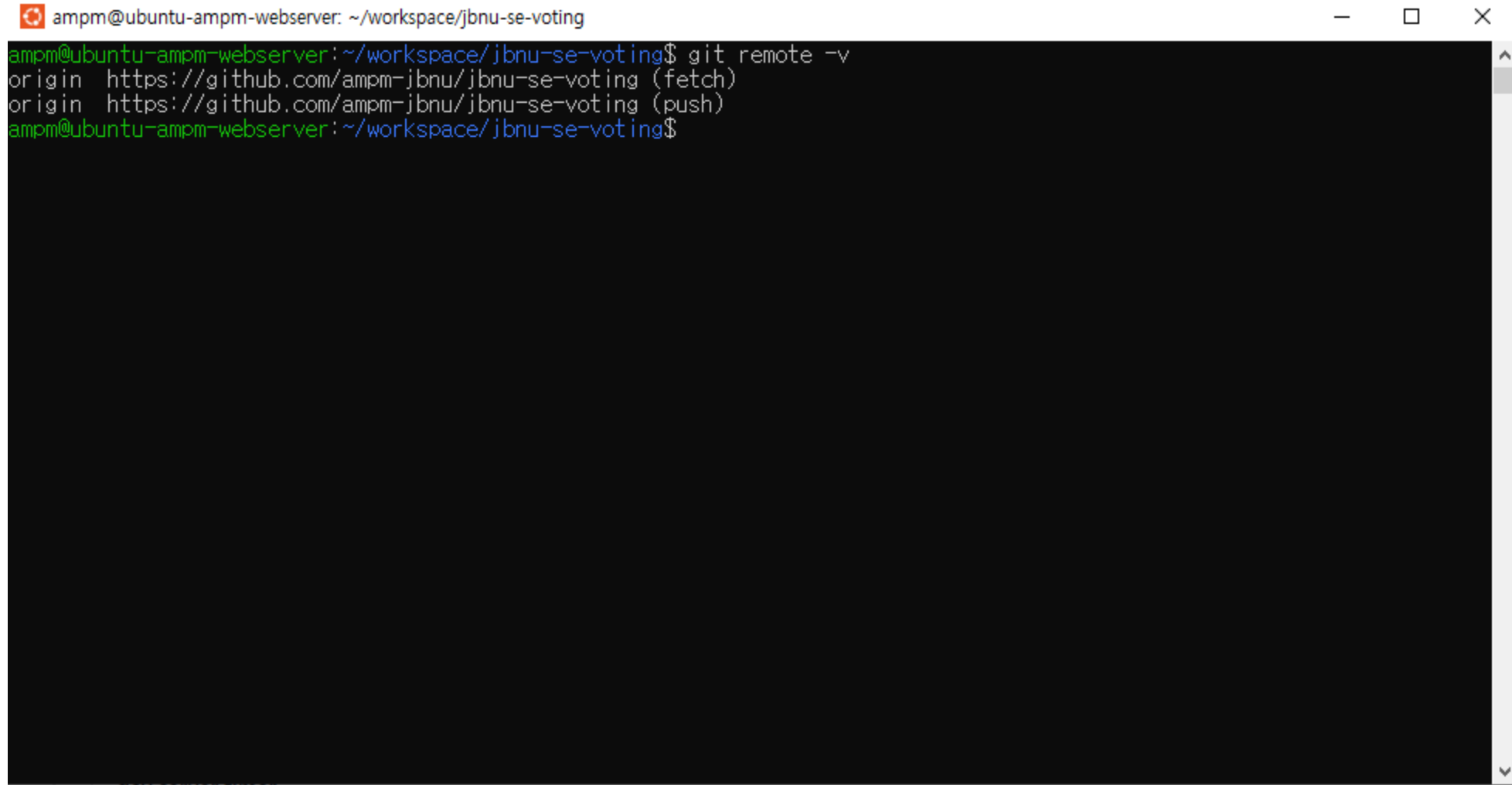
https://ubuntu.com/engage/secure-kubernetes-at-the-edge

17 updates can be applied immediately.
To see these additional updates run: apt list --upgradable

*** System restart required ***
Last login: Thu Nov 17 08:28:43 2022 from 210.117.128.203
ampm@ubuntu-ampm-webserver:~$
```

```
*** System restart required ***
Last login: Thu Nov 17 08:28:43 2022 from 210.117.128.203
ampm@ubuntu-ampm-webserver:~$ ls
libssl1.1_1.1.1f-1ubuntu2.16_amd64.deb  workspace
ampm@ubuntu-ampm-webserver:~$ cd workspace/jbnu-se-voting/
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$ ls
app.js      controllers  LICENSE.md  overview.png  public      screenshot  yarn.lock
bin         db.js       models      package.json  README.md   views
constants  ecosystem.config.js  node_modules  package-lock.json  routes      yarn-error.log
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$
```

# — Server Environment



A terminal window titled "ampm@ubuntu-ampm-webserver: ~/workspace/jbnu-se-voting" with standard window controls. The terminal shows the command "git remote -v" being executed, which displays the origin remote configuration for a GitHub repository. The prompt "ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting\$" is visible at the end of the output.

```
ampm@ubuntu-ampm-webserver: ~/workspace/jbnu-se-voting
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$ git remote -v
origin https://github.com/ampm-jbnu/jbnu-se-voting (fetch)
origin https://github.com/ampm-jbnu/jbnu-se-voting (push)
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$
```

# — Server Environment

ampm@ubuntu-ampm-webserver: ~/workspace/jbnu-se-voting

ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting\$ mongo

MongoDB shell version v4.4.17

connecting to: mongodb://127.0.0.1:27017/?compressors=disabled&gssapiServiceName=mongodb

Implicit session: session { "id" : UUID("2f430ffd-272a-4b5e-ad99-8b68d4397998") }

MongoDB server version: 4.4.17

---  
The server generated these startup warnings when booting:

2022-11-13T05:15:33.581+00:00: Using the XFS filesystem is strongly recommended with the WiredTiger storage engine. See <http://dochub.mongodb.org/core/prodnotes-filesystem>

2022-11-13T05:15:34.946+00:00: Access control is not enabled for the database. Read and write access to data and configuration is unrestricted

---  
Enable MongoDB's free cloud-based monitoring service, which will then receive and display metrics about your deployment (disk utilization, CPU, operation statistics, etc).

The monitoring data will be available on a MongoDB website with a unique URL accessible to you and anyone you share the URL with. MongoDB may use this information to make product improvements and to suggest MongoDB products and deployment options to you.

To enable free monitoring, run the following command: `db.enableFreeMonitoring()`

To permanently disable this reminder, run the following command: `db.disableFreeMonitoring()`

---  
> use se\_voting  
switched to db se\_voting

> show collections

voting\_result

voting\_users

>

# — Server Environment

```
ampm@ubuntu-ampm-webserver: ~/workspace/jbnu-se-voting
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$ git remote -v
origin  https://github.com/ampm-jbnu/jbnu-se-voting (fetch)
origin  https://github.com/ampm-jbnu/jbnu-se-voting (push)
ampm@ubuntu-ampm-webserver:~/workspace/jbnu-se-voting$ yarn dev
yarn run v1.22.19
$ nodemon --exec babel-node ./bin/www
[nodemon] 2.0.20
[nodemon] to restart at any time, enter `rs`
[nodemon] watching path(s): *.*
[nodemon] watching extensions: js,mjs,json
[nodemon] starting `babel-node ./bin/www`
(node:101539) Warning: Accessing non-existent property 'count' of module exports inside circular dependency
(Use `node --trace-warnings ...` to show where the warning was created)
(node:101539) Warning: Accessing non-existent property 'findOne' of module exports inside circular dependency
(node:101539) Warning: Accessing non-existent property 'remove' of module exports inside circular dependency
(node:101539) Warning: Accessing non-existent property 'updateOne' of module exports inside circular dependency
Connected to DB
```

# Server Environment

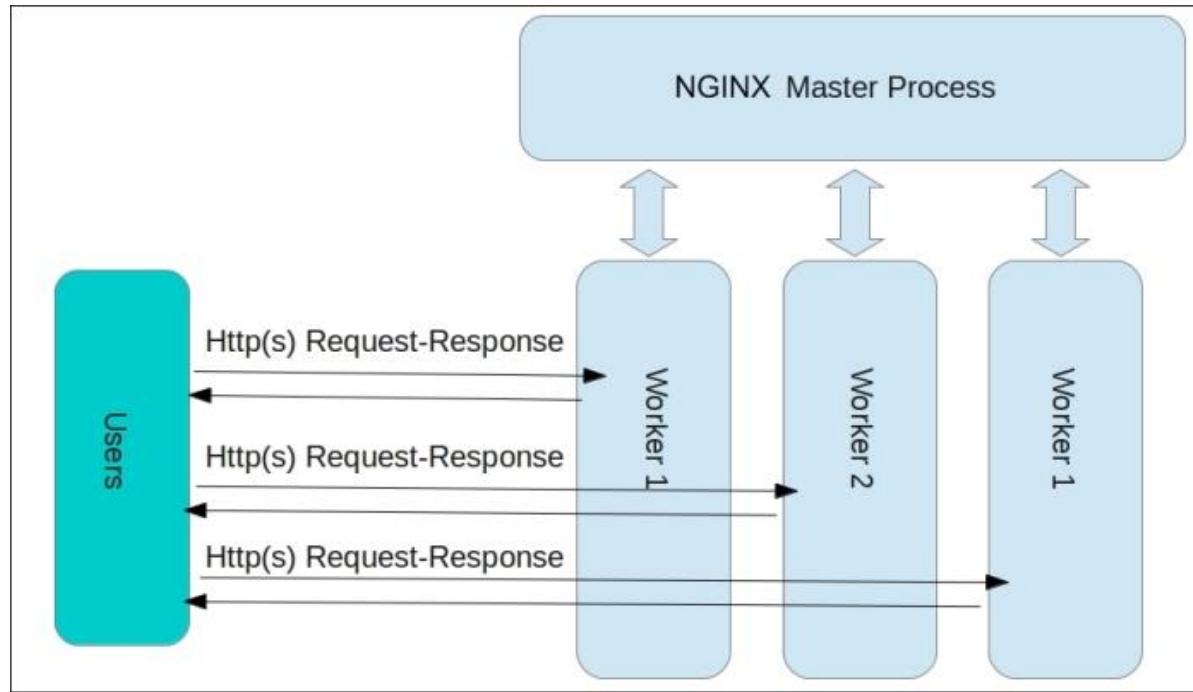
The screenshot shows a web browser window with the following elements:

- Browser Tabs:** Commits - ampm-jbnu/jbnu-se, 2022학년도 전북대학교 소프트웨어공학과
- Address Bar:** 주의 요함 | ampm.jbnu.ac.kr:3001
- Page Title:** 2022학년도 전북대학교 소프트웨어공학과 학생회장 투표
- Form:**
  - A placeholder for a user profile picture.
  - A text input field labeled "학번" (Student ID).
  - A text input field labeled "비밀번호" (Password).
  - A blue button labeled "로그인" (Login).
  - A warning message: ※ 학번과 비밀번호는 오직 투표를 위해서만 쓰입니다. (Student ID and password are only used for voting).
  - A yellow button labeled "투표 결과 보기" (View Voting Results).



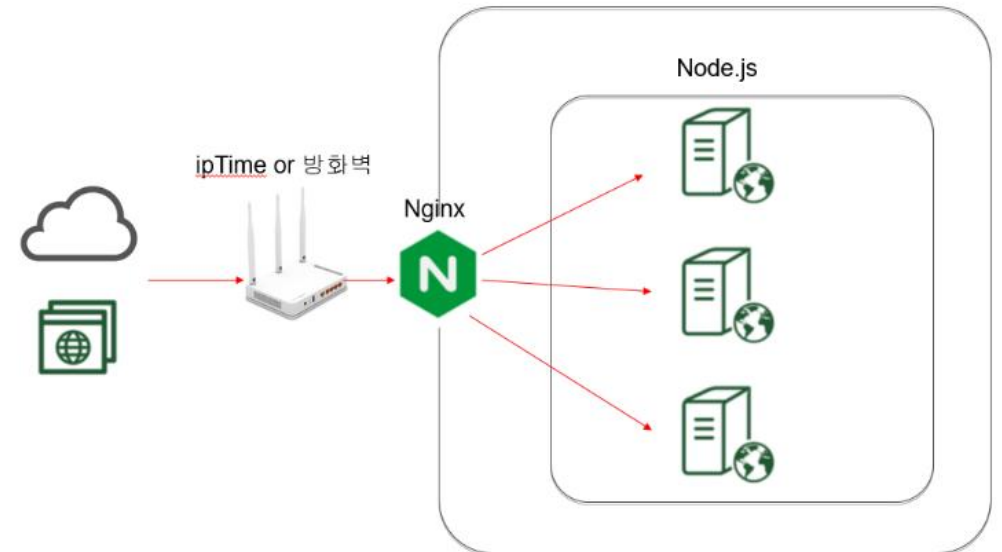
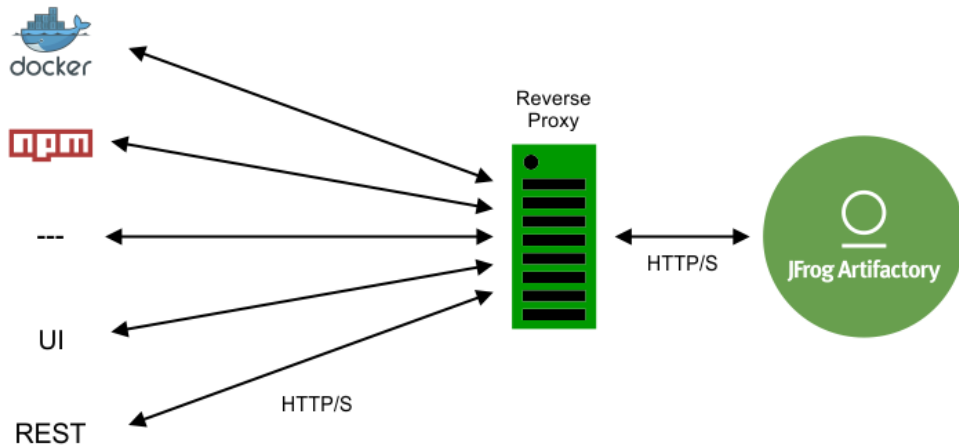
# Web(Proxy) Server : NginX

- NginX는 Event-Driven 구조로 동작하는 경량 web server



# Web(Proxy) Server : NginX

- NginX는 Reverse Proxy Server로서 역할을 하기도 한다. 클라이언트는 NginX 서버를 호출하기 때문에 실제 서버의 IP를 감출 수 있고, 이를 통해 보안을 높일 수 있다.



# Web(Proxy) Server : NginX

```
선택 ampm@ubuntu-ampm-webserver: /etc/nginx/conf.d
ampm@ubuntu-ampm-webserver:/etc/nginx$ cd conf.d
ampm@ubuntu-ampm-webserver:/etc/nginx/conf.d$ ;s
-bash: syntax error near unexpected token `;'
ampm@ubuntu-ampm-webserver:/etc/nginx/conf.d$ ls
default.conf
ampm@ubuntu-ampm-webserver:/etc/nginx/conf.d$ cat default.conf
server {
    listen 80 default_server;
    listen [::]:80 default_server;

    server_name ampm.jbnu.ac.kr www.ampm.jbnu.ac.kr;

    # root /var/www/html;
    # index index.html index.htm index.nginx-debian.html;

    location / {
        # First attempt to serve request as file, then
        # as directory, then fall back to displaying a 404.
        proxy_pass http://localhost:3000;
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection 'upgrade';
        proxy_set_header Host $host;
        proxy_cache_bypass $http_upgrade;
    }

    location /jbnu-se-voting {
        proxy_pass http://localhost:3001;
    }
}
```

# **Service Maintenance**

\_\_\_\_\_

\_\_\_\_\_

# Service Maintenance

2022 선거 #12

Edit

<> Code ▾

Merged

bonomoon merged 2 commits into `ampm-jbnu:master` from `kiku99:dev` 5 days ago

Conversation 1

Commits 2

Checks 0

Files changed 9

+21 -19



kiku99 commented 5 days ago

Contributor

2022 선거에 맞게 view, data 변경



kiku99 added 2 commits 5 days ago



view 및 데이터 변경

41ca0cc



추가 수정

7ab9593



bonomoon commented 5 days ago

Member

Nice works!



bonomoon self-requested a review 5 days ago



bonomoon merged commit 0493656 into `ampm-jbnu:master` 5 days ago

Revert

Reviewers

bonomoon

Assignees

No one assigned

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

# Service Maintenance

The screenshot shows a GitHub pull request titled "2022 선거 by kiku99" with 12 files changed. The pull request is open for review, showing a diff between the current branch and the target branch. The changes are categorized into three files:

- constants/messages.js**: Updated error and info messages for the voting system. The VOTING\_ERROR message is updated to reflect the 2022 election date (2022년 11월 15일 18:30) and the ABORTION\_INFO message is updated to reflect the 2022 election date (2022년 11월 15일 18:30).
- controllers/votingResultController.js**: Updated the getVotingResult function to use the new error and info messages. The function is updated to use the new error and info messages.
- public/images/candidate\_poster.png**: Updated the candidate poster image. The image is updated to reflect the 2022 election date (2022년 11월 15일 18:30).

The diff shows the following changes:

```
@@ -1,12 +1,12 @@
1  const ERRORS = {
2    AUTH_ERROR: '이 서비스에 이용 권한이 없습니다.',
3    VOTING_ERROR: '이미 투표를 하셨습니다. 2020년 03월 13일 16:00 이후 결과가 공개됩니다.',
4  };
5
6  const INFO = {
7    ELECTION_INFO: "단일 후보 찬성이 2/3 넘었으므로 정후보 왕대성, 부후보 문봉호가 당선되었습니다.",
8    ABORTION_INFO: "단일 후보 찬성이 2/3를 넘지 않았으므로 정후보 왕대성, 부후보 문봉호가 낙선되었습니다.",
9    END_INFO: '투표에 참여해주셔서 감사합니다. 2020년 03월 13일 16:00 이후 결과가 공개됩니다.'
10 };
11
12 module.exports = {
13   ERRORS,
14   INFO,
15 };
16
```

The diff also shows changes to the **controllers/votingResultController.js** file, where the `getVotingResult` function is updated to use the new error and info messages.

```
@@ -4,7 +4,7 @@ import msgs from "../constants/messages";
4
5  async function getVotingResult(req, res, next) {
6    const data = {
7      users: 139,
8      voters: 0,
9      agree: 0,
10     disagree: 0,
11   };
12   next();
13 }
14
```

The diff also shows changes to the **public/images/candidate\_poster.png** file, where the image is updated to reflect the 2022 election date (2022년 11월 15일 18:30).

The pull request is currently in the "Review changes" state, and the reviewer can click the "Review changes" button to approve the pull request.

# Service Maintenance

The screenshot shows a GitHub pull request titled "서버 타이머 추가 #13" (Server timer addition #13) in the repository "ampm-jbnu/jbnu-se-voting". The pull request is merged and was created 3 days ago by user bonomoon, merging 10 commits from the kiku99:master branch into the ampm-jbnu:master branch.

Below the title, there are tabs for Conversation (8), Commits (10), Checks (0), and Files changed (7). A comment from kiku99, made 4 days ago, lists two items: "1. read me 수정" (readme modification) and "2. 투표 종료시간이 되면 자동으로 로그인 버튼 비활성화 및 투표 결과 버튼 활성화" (when voting ends, automatically deactivate login button and activate voting result button).

The commit history shows that kiku99 and others added 8 commits 5 days ago. The list of commits includes: "Merge pull request #1 from kiku99/dev", "Merge pull request #2 from kiku99/dev", "readme 수정", "timer, view changer 구현중", "dev server timer", "투표 종료시 로그인 버튼 비활성화", "주석 추가", and "Merge pull request #3 from kiku99/dev".

On the right side, the "Reviewers" section shows that bonomoon is the reviewer. The "Assignees" section shows "No one assigned". The "Labels" section shows "None yet". The "Projects" section shows "None yet". The "Milestone" section shows "No milestone". The "Development" section shows "Successfully merging this pull request may close these issues." and "None yet".

At the bottom, there is a "Notifications" section with a "Customize" link and an "Unsubscribe" button. A "View changes" link is also present.



# Service Maintenance

서비스 타이머 추가 #13

Merged

Changes from all commits

File filter

Conversations

0 / 7 files viewed

Review changes

Filter changed files

- .gitignore
- README.md
- controllers
  - globalController.js
- package.json
- routes
  - voting.js
- views
  - index.ejs
- yarn.lock

121 [license-shield]: https://img.shields.io/badge/License-MIT-yellow.svg

122 - [license-url]: https://github.com/ampm-jbnu/3BNU-SE-Voting/blob/master/LICENSE.md

123 + [license-url]: https://github.com/ampm-jbnu/3BNU-SE-Voting/blob/master/LICENSE.md

controllers/globalController.js

```
@@ -4,14 +4,30 @@ import { home, voting } from '../constants/routes';
4 import VotingUser from '../models/VotingUser';
5 import {getApiData, API_KEY} from '../env_auth_api';
6
7 function getIndex(req, res, next) {
8   let sess = req.session;
9   -
10   if (!sess.stdNum) {
11     - res.render("index");
12   } else {
13     req.session.destroy(function(err) {
14     - res.render("index");
15     });
16   }
17 }
18
19 + const schedule = require('node-schedule');
20 + const rule = new schedule.RecurrenceRule();
21 +
22 + // 선거 날짜 설정
23 + rule.year = 2022
24 + rule.month = 10 // month base = 0
25 + rule.date = 13
26 + rule.hour = 20
27 + rule.minute = 33
28 +
29 + let visibility = false
30 +
31 + schedule.scheduleJob(rule, function(){
32 +   console.log("투표 종료");
33 +   visibility = true
34 + })
35 +
36 function getIndex(req, res, next) {
37   let sess = req.session;
38   if (!sess.stdNum) {
39     res.render("index", {visibility});
40   } else {
41     req.session.destroy(function(err) {
42     res.render("index", {visibility});
43     });
44   }
45 }
```

package.json

```
@@ -14,12 +14,13 @@
```

# Service Maintenance

views/index.ejs		Viewed
@@ -25,10 +25,18 @@		
25	<span id="reauth-email" class="reauth-email"></span>	25 <span id="reauth-email" class="reauth-email"></span>
26	<input name="stdNum" type="text" id="inputEmail" class="form-control" placeholder="학번"	26 <input name="stdNum" type="text" id="inputEmail" class="form-control" placeholder="학번"
	required autofocus>	required autofocus>
27	<input name="stdPwd" type="password" id="inputPassword" class="form-control" placeholder="비밀	27 <input name="stdPwd" type="password" id="inputPassword" class="form-control" placeholder="비밀
	번호" required>	번호" required>
28 -	<button class="btn btn-lg btn-primary btn-block btn-signin" type="submit">로그인</button>	28 + < if (visibility) { %>
		29 + <button disabled class="btn btn-lg btn-primary btn-block btn-signin" type="submit">투표 종료
		</button>
		30 + <% } else { %>
		31 + <button class="btn btn-lg btn-primary btn-block btn-signin" type="submit">로그인</button>
		32 + <% } %>
29	<h2 class="profile-name-card">※ 학번과 비밀번호는 오직 투표를 위해서만 쓰입니다.</h2>	33 <h2 class="profile-name-card">※ 학번과 비밀번호는 오직 투표를 위해서만 쓰입니다.</h2>
30	</form><!-- /form -->	34 </form><!-- /form -->
31 -	<button class="btn btn-warning text-center mt-5 btn-block text-white"	35 + < if (visibility) { %>
	onclick="location.href='/voting_result'">투표 결과 보기</button>	36 + <button class="btn btn-warning text-center mt-5 btn-block text-white"
		onclick="location.href='/voting_result'">투표 결과 보기</button>
		37 + <% } else { %>
		38 + <button disabled class="btn btn-warning text-center mt-5 btn-block text-white"
		onclick="location.href='/voting_result'">투표 결과 보기</button>
		39 + <% } %>
32	</div>	40 </div>
33	</div><!-- /card-container -->	41 </div><!-- /card-container -->
34	</div><!-- /container -->	42 </div><!-- /container -->
yarn.lock		Viewed
@@ -1075,6 +1075,14 @@ cache-base@1.0.1:		
1075	union-value "^1.0.0"	1075 union-value "^1.0.0"
1076	unset-value "^1.0.0"	1076 unset-value "^1.0.0"
1077		1077

# Service Maintenance

서버 타이머 추가 by kiku99 · Pull request · github.com/ampm-jbnu/jbnu-se-voting/pull/13

GoogleNAVERGitHubYouTube Premium...전북대학교 통합정보시스템전북대학교https://ieilms.jbnu.ac.kr/전북대학교 스마트캠퍼스이것이리눅스다Associate Solutions...오픈스택의 IT...Associate Solutions...'자료구조/Java' 카...K-MOOC

Merged 서버 타이머 추가 #13 bonomoon merged 10 commits into ampm-jbnu:master from kiku99:master 3 days ago

코드에 달린 코멘트 확인하세요

README.md Outdated Hide resolved

... @@ -13,7 +13,7 @@

13 13

14 14 

15 15

16 - [View Site - 투표 종료](http://203.254.143.215:3000)

16 + [View Site - 투표 종료](http://ampm.jbnu.ac.kr:3001)

bonomoon 4 days ago Member ...

투표 주소 ampm.jbnu.ac.kr/jbnu-se-voting 으로 부탁드립니다.

kiku99 4 days ago Contributor Author ...

넵

Reply...

Unresolve conversation kiku99 marked this conversation as resolved.

.gitignore Hide resolved

... @@ -1,4 +1,4 @@

1 - tignore

1 + yatignore

bonomoon 4 days ago Member ...

이게 무슨 말임...

kiku99 4 days ago Contributor Author ...

자동으로 추가된거 같은데

Reply...

2 participants

☐ Allow edits by maintainers ?