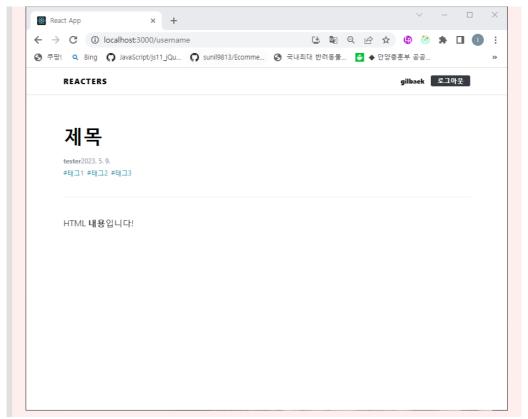
26. FE 포스트조회기능 구현하기

26.1 포스트 읽기 페이지 구현하기

26.1.1 PostViewer UI 준비

```
components\post\PostViewer.js
import styled from 'styled-components';
import palette from '../../lib/styles/palette';
import Responsive from '../common/Responsive';
const PostViewerBlock = styled(Responsive)`
  margin-top: 4rem;
const PostHead = styled.div`
  border-bottom: 1px solid ${palette.gray[2]};
  padding-bottom: 3rem;
  margin-bottom: 3rem;
  h1 {
    font-size: 3rem;
    line-height: 1.5;
    margin: 0;
  }
const SubInfo = styled.div`
  margin-top: 1rem;
  color: ${palette.gray[6]};
  // span 사이에 가운데점 문자 보여주기
  span + span:before {
    color: ${palette.gray[5]};
    padding-left: 0.25rem;
    padding-right: 0.25rem;
    content: '\\B7'; // 가운뎃점 점 문자
  }
const Tags = styled.div`
  margin-top: 0.5rem;
  .tag {
    display: inline-block;
    color: ${palette.cyan[7]};
    text-decoration: none;
    margin-right: 0.5rem;
    &:hover {
      color: ${palette.cyan[6]};
```

```
const PostContent = styled.div`
  font-size: 1.3125rem;
  color: ${palette.gray[8]};
const PostViewer = () => {
  return (
     <PostViewerBlock>
       <PostHead>
         <h1>제목</h1>
         <SubInfo>
           <span><b>tester</b></span>
           <spa>{new Date().toLocaleDateString()}</spa>
         </SubInfo>
         <Tags>
           <div className='tag'>#태그1</div>
           <div className='tag'>#태그2</div>
           <div className='tag'>#태コ3</div>
         </Tags>
       </PostHead>
       <PostContent dangerouslySetInnerHTML={{ __html: '<p>HTML <b>내용</b>입니
다!' }} />
    </PostViewerBlock>
  );
};
export default PostViewer;
pages\PostPage.js
import HeaderContainer from '../containers/common/HeaderContainer';
import PostViewer from '../components/post/PostViewer';
const PostPage = () => {
  return (
       <HeaderContainer />
      <PostViewer />
    </>>
  );
};
export default PostPage;
 • http://localhost:3000/@testet/samplepostid
     ■ 현재까지 no routes matched location "/@tester/sampleid" 로 작동 않
       되어서
     ■ http://localhost:3000/username으로 테스트
```



26.1.2 API연동하기

```
lib/api/posts.js
import client from './client';

export const writePost = ({ title, body, tags }) =>
    client.post('/api/posts', { title, body, tags });

export const readPost = id => client.get(`/api/posts/${id}`);

modules/post.js - redux 모듈
```

- READ_POST액션외에 UNLOAD_POST 액션을 추가, UNLOAD_POST의 용도는 포스트페이지 를 벗어날 떄 리덕스상태 데이터를 비우는 역할
- 페이지를 벗어날 때 데이터를 비우지 않을 경우 다른 포스트를 읽을 때 이전 포스트가 나타나는 깜박임현상이 발생한다.

```
import { createAction, handleActions } from 'redux-actions';
import createRequestSaga, {
    createRequestActionTypes,
} from '../lib/createRequestSaga';
import * as postsAPI from '../lib/api/posts';
import { takeLatest } from 'redux-saga/effects';

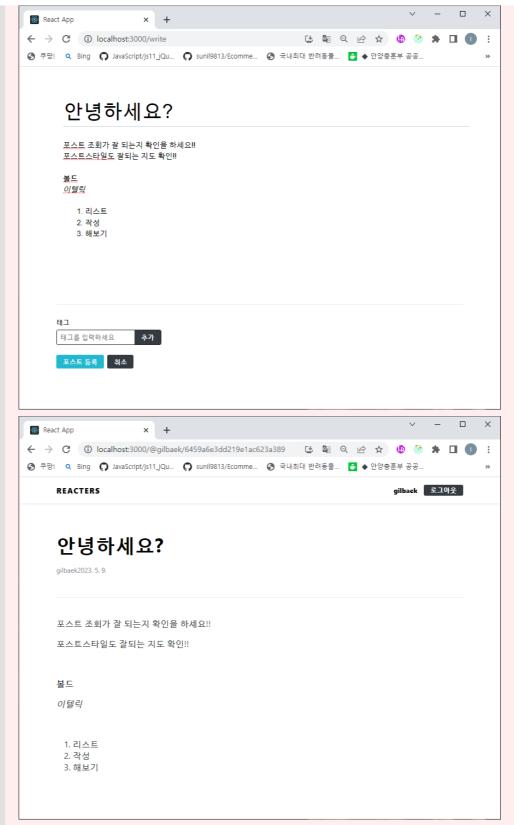
const [
    READ_POST,
    READ_POST_SUCCESS,
    READ_POST_FAILURE,
] = createRequestActionTypes('post/READ_POST');
const UNLOAD_POST = 'post/UNLOAD_POST'; // 포스트 페이지에서 벗어날 때 데이터 비우기
```

```
export const readPost = createAction(READ_POST, id => id);
export const unloadPost = createAction(UNLOAD_POST);
const readPostSaga = createRequestSaga(READ_POST, postsAPI.readPost);
export function* postSaga() {
  yield takeLatest(READ_POST, readPostSaga);
const initialState = {
  post: null,
  error: null,
};
const post = handleActions(
  {
     [READ POST SUCCESS]: (state, { payload: post }) => ({
       ...state,
       post,
     }),
     [READ_POST_FAILURE]: (state, { payload: error }) => ({
       ...state,
       error,
     }),
     [UNLOAD_POST]: () => initialState,
  },
  initialState,
);
export default post;
modules/index.js - post리덕스를 루트리듀서와 사가리듀서에 등력
import { combineReducers } from 'redux';
import { all } from 'redux-saga/effects';
import auth, { authSaga } from './auth';
import loading from './loading';
import user, { userSaga } from './user';
import write, { writeSaga } from './write';
import post, { postSaga } from './post';
const rootReducer = combineReducers({
  auth,
  loading,
  user,
  write,
  post
});
export function* rootSaga() {
  yield all([authSaga(), userSaga(), writeSaga(), postSaga() ]);
export default rootReducer;
 • PostViwer를 위한 컨테이너컴퍼넌트 만들기
containers\post\PostViewerContainer.js
```

• url의 id값을 조회해야 하기 때문에 useParams를 함께 사용 import React, { useEffect } from 'react'; import { useDispatch, useSelector } from 'react-redux'; import { useParams } from 'react-router-dom'; import { readPost, unloadPost } from '../../modules/post'; import PostViewer from '../../components/post/PostViewer'; const PostViewerContainer = () => { // 처음 마운트될 때 포스트 읽기 API 요청 const { postId } = useParams(); const dispatch = useDispatch(); const { post, error, loading } = useSelector(({ post, loading }) => ({ post: post.post, error: post.error, loading: loading['post/READ POST'], })); useEffect(() => { dispatch(readPost(postId)); // 언마운트될 때 리덕스에서 포스트 데이터 없애기 return () => { dispatch(unloadPost()); **}**; }, [dispatch, postId]); return <PostViewer post={post} loading={loading} error={error} />; **}**; export default PostViewerContainer; pages/PostPage.js - PostViewerContainer로 대체 import HeaderContainer from '../containers/common/HeaderContainer'; import PostViewerContainer from '../containers/post/PostViewerContainer'; // import PostViewer from '../components/post/PostViewer'; const PostPage = () => { return (<HeaderContainer /> { /* < PostViewer /> */} <PostViewerContainer /> </>>); }; export default PostPage; components\post\PostViewer.js - 관련 props를 정의 import styled from 'styled-components'; import palette from '../../lib/styles/palette'; import Responsive from '../common/Responsive'; const PostViewerBlock = styled(Responsive)` margin-top: 4rem;

```
const PostHead = styled.div`
 border-bottom: 1px solid ${palette.gray[2]};
 padding-bottom: 3rem;
 margin-bottom: 3rem;
 h1 {
   font-size: 3rem;
   line-height: 1.5;
   margin: 0;
const SubInfo = styled.div`
 margin-top: 1rem;
 color: ${palette.gray[6]};
 // span 사이에 가운데점 문자 보여주기
 span + span:before {
   color: ${palette.gray[5]};
   padding-left: 0.25rem;
   padding-right: 0.25rem;
   content: '\\B7'; // 가운뎃점 점 문자
 }
const Tags = styled.div`
 margin-top: 0.5rem;
  .tag {
   display: inline-block;
   color: ${palette.cyan[7]};
   text-decoration: none;
   margin-right: 0.5rem;
   &:hover {
     color: ${palette.cyan[6]};
   }
const PostContent = styled.div`
 font-size: 1.3125rem;
 color: ${palette.gray[8]};
const PostViewer = ({ post, error, loading }) => {
  // 에러 발생 시
  if (error) {
    if (error.response && error.response.status === 404) {
      return <PostViewerBlock>존재하지 않는 포스트입니다.</PostViewerBlock>;
    }
    return <PostViewerBlock>오류 발생!</PostViewerBlock>;
  // 로딩중이거나, 아직 포스트 데이터가 없을 시
  if (loading | !post) {
    return null;
  }
```

```
const { title, body, user, publishedDate, tags } = post;
  return (
    <PostViewerBlock>
      <PostHead>
        <h1>{title}</h1>
        <SubInfo>
           <span>{user.username}</span>
           <apan>{ new Date(publishedDate).toLocaleDateString()}</apan>
        </SubInfo>
        <Tags>
           {tags.map(tag => (
             <div className=" tag ">#{tag}</div>
           ))}
        </Tags>
      </postHead>
      <PostContent dangerouslySetInnerHTML={{ __html: body }} />
    </PostViewerBlock>
  );
};
export default PostViewer;
```



26.2 포스트목록페이지 구현하기

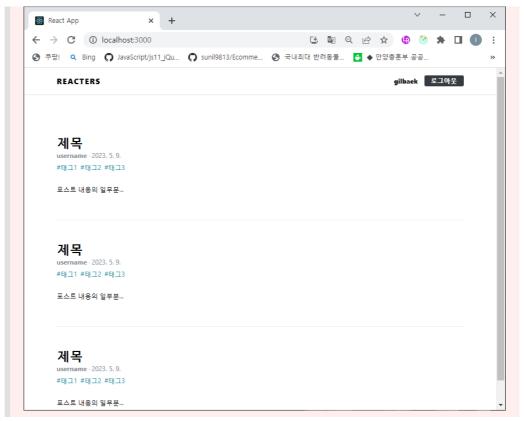
26.2.1 PostList UI 준비

```
components/common/SubInfo.js
import styled, { css } from 'styled-components';
import { Link } from 'react-router-dom';
import palette from '../../lib/styles/palette';
```

```
const SubInfoBlock = styled.div`
  ${props =>
     props.hasMarginTop &&
    css`
      margin-top: 1rem;
  color: ${palette.gray[6]};
  /* span 사이에 가운뎃점 문자 보여주기*/
  span + span:before {
    color: ${palette.gray[4]};
    padding-left: 0.25rem;
    padding-right: 0.25rem;
    content: '\\B7'; /* 가운뎃점 문자 */
  }
const SubInfo = ({ username, publishedDate, hasMarginTop }) => {
  return (
     <SubInfoBlock hasMarginTop={hasMarginTop}>
       <span>
         <b>
           <Link to={\'\0${username}\'\}>{username}</Link>
         </b>
       </span>
       <span>{new Date(publishedDate).toLocaleDateString()}</span>
     </SubInfoBlock>
  );
};
export default SubInfo;
components/common/Tags.js
import styled from 'styled-components';
import palette from '../../lib/styles/palette';
import { Link } from 'react-router-dom';
const TagsBlock = styled.div`
  margin-top: 0.5rem;
  .tag {
    display: inline-block;
    color: ${palette.cyan[7]};
    text-decoration: none;
    margin-right: 0.5rem;
    &:hover {
      color: ${palette.cyan[6]};
  }
const Tags = ({ tags }) => {
  return (
     <TagsBlock>
       {tags.map(tag => (
         <Link className="tag" to={\`/?tag=${tag}\`} key={tag}>
```

```
</Link>
       ))}
     </TagsBlock>
  );
};
export default Tags;
components/posts/PostList.js
import styled from 'styled-components';
import Responsive from '../common/Responsive';
import Button from '../common/Button';
import palette from '../../lib/styles/palette';
import SubInfo from '../common/SubInfo';
import Tags from '../common/Tags';
const PostListBlock = styled(Responsive)`
  margin-top: 3rem;
const WritePostButtonWrapper = styled.div`
  display: flex;
  justify-content: flex-end;
  margin-bottom: 3rem;
`;
const PostItemBlock = styled.div`
  padding-top: 3rem;
  padding-bottom: 3rem;
  /* 맨 위 포스트는 padding-top 없음 */
  &:first-child {
    padding-top: 0;
  }
  8 + 8 {
    border-top: 1px solid ${palette.gray[2]};
  }
  h2 {
    font-size: 2rem;
    margin-bottom: 0;
    margin-top: 0;
    &:hover {
      color: ${palette.gray[6]};
    }
  }
  p {
    margin-top: 2rem;
const PostItem = () => {
  return (
     <PostItemBlock>
       <h2>제목</h2>
       <SubInfo
         username="username"
```

```
publishedDate={new Date()}
      />
       <Tags tags={["태그1", "태그2", "태그3"]} />
       포스트 내용의 일부분...
    </PostItemBlock>
  );
};
const PostList = ({ posts, loading, error, showWriteButton }) => {
  // 에러 발생 시
  if (error) {
    return <PostListBlock>에러가 발생했습니다.</PostListBlock>;
  }
  return (
     <PostListBlock>
       <WritePostButtonWrapper>
         {showWriteButton && (
           <Button cyan to="/write">
             새 글 작성하기
           </Button>
         )}
       </WritePostButtonWrapper>
       <div>
           <PostItem />
           <PostItem />
           <PostItem />
       </div>
    </PostListBlock>
  );
};
export default PostList;
pages/PostListPage.js
import PostList from '../components/posts/PostList';
import HeaderContainer from '../containers/common/HeaderContainer'
const PostListPage = () => {
  return (
    \Diamond
       <HeaderContainer />
       <PostList />
    </>>
  );
};
export default PostListPage;
```



```
components/post/PostViewer.js - Post 목록
import styled from 'styled-components';
import palette from '../../lib/styles/palette';
import Responsive from '../common/Responsive';
import SubInfo from '../common/SubInfo';
import Tags from '../common/Tags';
const PostViewerBlock = styled(Responsive)`
  margin-top: 4rem;
const PostHead = styled.div`
  border-bottom: 1px solid ${palette.gray[2]};
  padding-bottom: 3rem;
  margin-bottom: 3rem;
  h1 {
    font-size: 3rem;
    line-height: 1.5;
    margin: 0;
const PostContent = styled.div`
  font-size: 1.3125rem;
  color: ${palette.gray[8]};
const PostViewer = ({ post, error, loading }) => {
  // 에러 발생 시
  if (error) {
    if (error.response && error.response.status === 404) {
       return <PostViewerBlock>존재하지 않는 포스트입니다.</PostViewerBlock>;
```

23. 6. 9. 오후 5:18

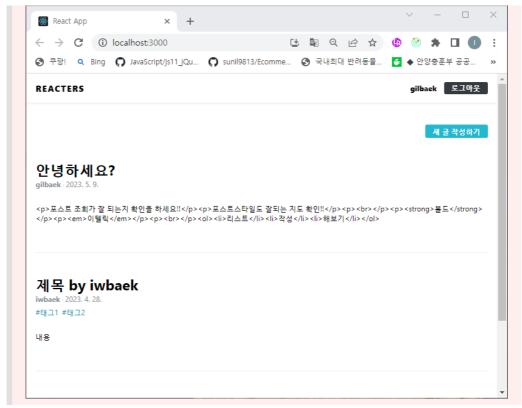
```
return <PostViewerBlock>오류 발생!</PostViewerBlock>;
  }
  // 로딩중이거나, 아직 포스트 데이터가 없을 시
  if (loading | !post) {
    return null;
  const { title, body, user, publishedDate, tags } = post;
  return (
     <PostViewerBlock>
       <PostHead>
         <h1>{title}</h1>
         <SubInfo</p>
           username={user.username}
           publishedDate={ publishedDate }
           hasMarginTop
         />
         <Tags tags={tags} />
       </PostHead>
       <PostContent dangerouslySetInnerHTML={{ __html: body }} />
    </PostViewerBlock>
  );
};
export default PostViewer;
26.2.2 포스트목록조회 API 연동하기
lib/api/posts.js
 • list API는 username, page, tag값을 쿼리값으로 사용
 • axios.get함수의 두 번쨰 파라미터에 params를 설정하몀 쿼리값 설정을 편하게 할
   수 있다.
 • /api/posts?username=gilbaek&page=2와 같이 호출
import client from './client';
export const writePost = ({ title, body, tags }) =>
  client.post('/api/posts', { title, body, tags });
export const readPost = id => client.get(\( \)/api/posts/\( \){id}\( \);
export const listPosts = ({ page, username, tag}) => {
  return client.get(`/api/posts`, {
    params: { page, username, tag },
  });
};
modules/posts.js - 리덕스상태관리 모듈 적용
import { createAction, handleActions } from 'redux-actions';
import createRequestSaga, {
  createRequestActionTypes,
} from '../lib/createRequestSaga';
import * as postsAPI from '../lib/api/posts';
import { takeLatest } from 'redux-saga/effects';
```

```
const [
  LIST_POSTS,
  LIST_POSTS_SUCCESS,
  LIST_POSTS_FAILURE,
] = createRequestActionTypes('posts/LIST_POSTS');
export const listPosts = createAction(
  LIST_POSTS,
   ({ tag, username, page }) => ({ tag, username, page }),
);
const listPostsSaga = createRequestSaga(LIST_POSTS, postsAPI.listPosts);
export function* postsSaga() {
  yield takeLatest(LIST POSTS, listPostsSaga);
const initialState = {
  posts: null,
  error: null,
   // lastPage: 1,
};
const posts = handleActions(
   {
     [LIST POSTS SUCCESS]: (state, { payload: posts }) => ({
       ...state,
       posts,
     }),
     [LIST POSTS FAILURE]: (state, { payload: error }) => ({
       ...state,
       error,
     }),
  },
   initialState,
);
export default posts;
modules/index.js - 리덕스모듈 posts.js 추가
import { combineReducers } from 'redux';
import { all } from 'redux-saga/effects';
import auth, { authSaga } from './auth';
import loading from './loading';
import user, { userSaga } from './user';
import write, { writeSaga } from './write';
import post, { postSaga } from './post';
import posts, { postsSaga } from './posts';
const rootReducer = combineReducers({
  auth,
   loading,
  user,
  write,
   post,
   posts
```

```
});
export function* rootSaga() {
  yield all([authSaga(), userSaga(), writeSaga(), postSaga() , postsSaga() ]);
export default rootReducer;
containers/posts/PostListContainer.js - post목록 컨테이너 추가
 • showWriteButton props를 현재 로그인중인 사용자의 정보를 지닌 user 객체로 설정
import React, { useEffect } from 'react';
import { useDispatch, useSelector } from 'react-redux';
import PostList from '.../../components/posts/PostList';
import { listPosts } from '../../modules/posts';
import { useParams, useSearchParams } from 'react-router-dom';
const PostListContainer = () => {
  const { username } = useParams();
  const [searchParams] = useSearchParams();
  const dispatch = useDispatch();
  const { posts, error, loading, user } = useSelector(
     ({ posts, loading, user }) => ({
       posts: posts.posts,
       error: posts.error,
       loading: loading['posts/LIST_POSTS'],
       user: user.user,
    }),
  );
  useEffect(() => {
    const tag = searchParams.get('tag');
    // page가 없으면 1을 기본값으로 사용
    const page = parseInt(searchParams.get('page'), 10) || 1;
    dispatch(listPosts({ tag, username, page }));
  }, [dispatch, searchParams, username]);
  return (
     <PostList
       loading={loading}
       error={error}
       posts={posts}
       showWriteButton={user}
    />
  );
};
export default PostListContainer;
pages/PostListPage.js - PostListContainer 적용
// import PostList from '../components/posts/PostList';
import HeaderContainer from '../containers/common/HeaderContainer'
import PostListContainer from '../containers/posts/PostListContainer';
const PostListPage = () => {
  return (
```

```
<HeaderContainer />
       {/* <PostList /> */}
       <PostListContainer />
     </>>
  );
};
export default PostListPage;
components/posts/PostList.js
import styled from 'styled-components';
import Responsive from '../common/Responsive';
import Button from '../common/Button';
import palette from '../../lib/styles/palette';
import SubInfo from '../common/SubInfo';
import Tags from '../common/Tags';
import { Link } from 'react-router-dom';
const PostListBlock = styled(Responsive)`
  margin-top: 3rem;
`;
const WritePostButtonWrapper = styled.div`
  display: flex;
  justify-content: flex-end;
  margin-bottom: 3rem;
const PostItemBlock = styled.div`
  padding-top: 3rem;
  padding-bottom: 3rem;
  /* 맨 위 포스트는 padding-top 없음 */
  &:first-child {
    padding-top: 0;
  }
  & + & {
    border-top: 1px solid ${palette.gray[2]};
  }
  h2 {
    font-size: 2rem;
    margin-bottom: 0;
    margin-top: 0;
    &:hover {
      color: ${palette.gray[6]};
    }
  }
  p {
    margin-top: 2rem;
  }
const PostItem = ({ post }) => {
  const { publishedDate, user, tags, title, body, _id } = post;
  return (
     <PostItemBlock>
       <h2>
```

```
<Link to={\'\@${user.username}/${_id}\`}>{title}</Link>
      </h2>
      <SubInfo
        username={user.username}
        publishedDate={new Date(publishedDate)}
      />
      <Tags tags={tags} />
      p{body}
    </PostItemBlock>
  );
};
const PostList = ({ posts, loading, error, showWriteButton }) => {
  // 에러 발생 시
 if (error) {
    return <PostListBlock>에러가 발생했습니다.</PostListBlock>;
  return (
    <PostListBlock>
      <WritePostButtonWrapper>
        {showWriteButton && (
          <Button cyan to="/write">
            새 글 작성하기
          </Button>
        )}
      </WritePostButtonWrapper>
      {/* 로딩 중 아니고, 포스트 배열이 존재할 때만 보여줌 */}
      {!loading && posts && (
        <div>
          {posts.map(post => (
            <PostItem post={post} key={post._id} />
          ))}
        </div>
      )}
    </postListBlock>
 );
};
export default PostList;
```



- 목록에 html 태그가 그대로 보이는 것을 없애는 작업은 서버쪽셍서 처리해야 한다.
- 클라이언트에서 처리할 수도 있지만 현재, body의 글자수(200자)제한으로 태그를 없애는 작업이 잘 안될 가능성이 있다.

26.2.3 HTML 필터링하기

- sanitize-html 라이브러리를 이용 html을 필터링. 이 라이브러리는 html작성 및 보여주기에 매우 유용하다.
- html제거기능 및 특정 html만 허용기능이 있어 악성 스크립트삽입을 막을 수 있다.
- backend에 설치
 - 프로젝트(서버) 중지후 설치해야 한다. 설치 후 재시작(yarn start)
 - yarn add sanitize-html

backend에서 src/api/posts/posts.ctrl.js - html 필터링하기

• 수정후 재시작한 후에 확인

```
import Post from '../../models/post';
import mongoose from 'mongoose';
import Joi from 'joi';
import sanitizeHtml from 'sanitize-html';

const { ObjectId } = mongoose.Types;

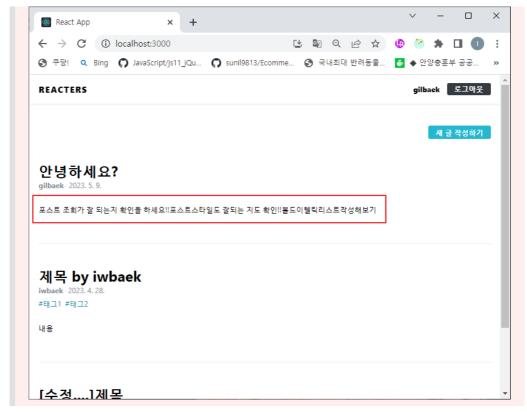
// sanitize-html은 특정태그와 특정속성만 허용할 수 있다.
// sanitizeOption에 특정태그와 특정속성만 허용하도록 정의
const sanitizeOption = {
  allowedTags: [
    'h1',
    'h2',
    'b',
    'i',
```

```
'u',
    's',
    'p',
    'ul',
    'ol',
    'li',
    'blockquote',
    'a',
    'img',
  ],
  allowedAttributes: {
    a: ['href', 'name', 'target'],
    img: ['src'],
    li: ['class'],
  },
  allowedSchemes: ['data', 'http'],
};
export const checkObjectId = (ctx, next) => {
  const { id } = ctx.params;
  if (!ObjectId.isValid(id)) {
    ctx.status = 400; // Bad Request
    return;
  }
  return next();
};
export const getPostById = async (ctx, next) => {
  const { id } = ctx.params;
  if (!ObjectId.isValid(id)) {
    ctx.status = 400; // Bad Request
    return:
  }
  try {
    const post = await Post.findById(id);
    // 포스트가 존재하지 않을 때
    if (!post) {
      ctx.status = 404; // Not Found
      return;
    ctx.state.post = post;
    return next();
  } catch (e) {
    ctx.throw(500, e);
  }
};
export const checkOwnPost = (ctx, next) => {
  const { user, post } = ctx.state;
  if (post.user._id.toString() !== user._id) {
    ctx.status = 403;
    return;
```

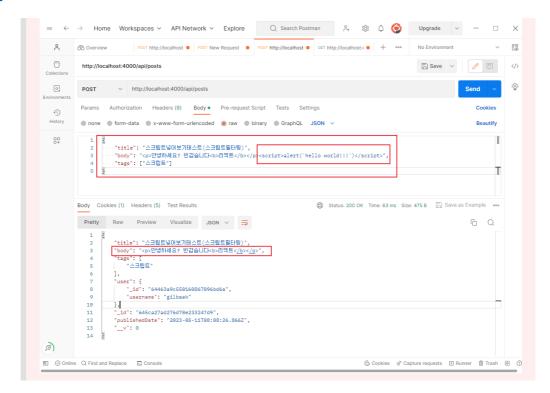
```
}
  return next();
};
 POST /api/posts
  {
    title: '제목',
   body: '내용',
   tags: ['태그1', '태그2']
*/
export const write = async ctx => {
  const schema = Joi.object().keys({
    // 객체가 다음 필드를 가지고 있음을 검증
    title: Joi.string().required(), // required() 가 있으면 필수 항목
    body: Joi.string().required(),
    tags: Joi.array()
      .items(Joi.string())
      .required(), // 문자열로 이루어진 배열
  });
  // 검증 후, 검증 실패시 에러처리
  const result = schema.validate(ctx.request.body);
  if (result.error) {
    ctx.status = 400; // Bad Request
    ctx.body = result.error;
    return;
  }
  const { title, body, tags } = ctx.request.body;
  const post = new Post({
    title,
    body: sanitizeHtml(body, sanitizeOption),
    user: ctx.state.user,
  });
  try {
    await post.save();
    ctx.body = post;
  } catch (e) {
    ctx.throw(500, e);
  }
};
// html태그를 없애고 내용이 너무길면 200자로 제한하는 함수
const removeHtmlAndShorten = (body) => {
  const filtered = sanitizeHtml(body, {
    allowedTags: [],
  return filtered.length < 200 ? filtered : `${filtered.slice(0, 200)}...`;</pre>
};
  GET /api/posts?username=&tag=&page=
```

```
*/
export const list = async (ctx) => {
  // query 는 문자열이기 때문에 숫자로 변환해주어야합니다.
  // 값이 주어지지 않았다면 1 을 기본으로 사용합니다.
  const page = parseInt(ctx.query.page || '1', 10);
  if (page < 1) {
    ctx.status = 400;
    return;
  }
  const { tag, username } = ctx.query;
  // tag, username 값이 유효하면 객체 안에 넣고, 그렇지 않으면 넣지 않음
  const query = {
    ...(username ? { 'user.username': username } : {}),
    ...(tag ? { tags: tag } : {}),
  };
  try {
    const posts = await Post.find(query)
      .sort({ _id: -1 })
      .limit(10)
      .skip((page - 1) * 10)
      .lean()
      .exec();
    const postCount = await Post.countDocuments(query).exec();
    ctx.set('Last-Page', Math.ceil(postCount / 10));
    ctx.body = posts.map((post) => ({
      ...post,
      body: removeHtmlAndShorten(post.body),
    }));
  } catch (e) {
    ctx.throw(500, e);
  }
};
 GET /api/posts/:id
export const read = async ctx => {
 ctx.body = ctx.state.post;
};
 DELETE /api/posts/:id
*/
export const remove = async ctx => {
  const {id} = ctx.params;
  try {
    const post = await Post.findByIdAndRemove(id).exec();
    ctx.status = 204; // no content 성공했지만 응답데이터 없음
   ctx.body = post;
  } catch(e) {
    ctx.throw(500, e);
```

```
};
 PATCH /api/posts/:id
  {
   title: '수정',
   body: '수정 내용',
   tags: ['수정', '태그']
 }
*/
export const update = async ctx => {
 const { id } = ctx.params;
  // write 에서 사용한 schema 와 비슷한데, required() 가 없습니다.
 const schema = Joi.object().keys({
   title: Joi.string(),
   body: Joi.string(),
   tags: Joi.array().items(Joi.string()),
 });
 // 검증 후, 검증 실패시 에러처리
 const result = schema.validate(ctx.request.body);
 if (result.error) {
   ctx.status = 400; // Bad Request
   ctx.body = result.error;
   return;
 }
 const nextData = { ....ctx.request.body }; // 객체를 복사하고
  // body 값이 주어졌으면 HTML 필터링
 if (nextData.body) {
   nextData.body = sanitizeHtml(nextData.body, sanitizeOption);
 }
 try {
    const post = await Post.findByIdAndUpdate(id, nextData, {
     new: true, // 이 값을 설정하면 업데이트된 데이터를 반환한다, false일 경우
업데이트전 값을 리턴
   }).exec();
   if(!post) {
     ctx.status = 404;
     return;
   ctx.status = 204; // no content 성공했지만 응답데이터 없음
    ctx.body = post;
  } catch(e) {
   ctx.throw(500, e);
  }
};
```



```
{
    "title": "스크립트넣어보기태스트(스크립트필터링)",
    "body": "안녕하세요? 빈갑습니다<b>리엑트</b><script>alert('hello
world!!!')</script>",
    "tags": ["스크립트"]
}
```



26.2.4 페이지네이션 구현

- Failed to load plugin 'jsx-a11y' declared in 'package.json » eslint-configreact-app 에러발생
 - 어떻게 해결 되었는지 잘 모르겠다

■ 하지만 front에서 package.json파일에 "react-app/jest"을 주석후 다시 해재한 후에 저장하니 해결되었다 "eslintConfig": { "extends": ["react-app", "react-app/jest" }, lib/createRequestSara.js - 페이지네이션 • 액션안에 meta값을 response로 넣어 주면 나중에 http헤더 및 상태코드를 쉽게 조 회할 수 있다. import { call, put } from 'redux-saga/effects'; import { startLoading, finishLoading } from '../modules/loading'; export const createRequestActionTypes = type => { const SUCCESS = `\${type}_SUCCESS`; const FAILURE = `\${type}_FAILURE`; return [type, SUCCESS, FAILURE]; **}**; export default function createRequestSaga(type, request) { const SUCCESS = `\${type}_SUCCESS`; const FAILURE = `\${type} FAILURE`; return function*(action) { yield put(startLoading(type)); // 로딩 시작 const response = yield call(request, action.payload); yield put({ type: SUCCESS, payload: response.data, meta: response, }); } catch (e) { yield put({ type: FAILURE, payload: e, error: true }); yield put(finishLoading(type)); // 로딩 끝 **}**; } modules/posts.js - 페이지네이션 import { createAction, handleActions } from 'redux-actions'; import createRequestSaga, { createRequestActionTypes, } from '../lib/createRequestSaga'; import * as postsAPI from '../lib/api/posts'; import { takeLatest } from 'redux-saga/effects'; const [

```
LIST_POSTS,
  LIST_POSTS_SUCCESS,
  LIST_POSTS_FAILURE,
] = createRequestActionTypes('posts/LIST_POSTS');
export const listPosts = createAction(
  LIST POSTS,
  ({ tag, username, page }) => ({ tag, username, page }),
);
const listPostsSaga = createRequestSaga(LIST POSTS, postsAPI.listPosts);
export function* postsSaga() {
  yield takeLatest(LIST_POSTS, listPostsSaga);
const initialState = {
  posts: null,
  error: null,
  lastPage: 1,
};
const posts = handleActions(
  {
     [LIST_POSTS_SUCCESS]: (state, { payload: posts, meta: response }) => ({
       ...state,
       posts,
       lastPage: parseInt(response.headers['last-page'], 10), // 문자열을 숫자
로 변환
    }),
     [LIST POSTS FAILURE]: (state, { payload: error }) => ({
       ...state,
       error,
    }),
  },
  initialState,
);
export default posts;
components/posts/Pagination.js
 • 리덕스 스토어 안에 lastPage값을 저장
import React from 'react';
import styled from 'styled-components';
import qs from 'qs';
import Button from '../common/Button';
const PaginationBlock = styled.div`
  width: 320px;
  margin: 0 auto;
  display: flex;
  justify-content: space-between;
  margin-bottom: 3rem;
const PageNumber = styled.div`;
```

```
const buildLink = ({ username, tag, page }) => {
  const query = qs.stringify({ tag, page });
  return username ? `/@${username}?${query}` : `/?${query}`;
};
const Pagination = ({ page, lastPage, username, tag }) => {
  return (
     <PaginationBlock>
       <Button
         disabled={page === 1}
           page === 1 ? undefined : buildLink({ username, tag, page: page - 1
})
         }
         이전
       </Button>
       <PageNumber>{page}</PageNumber>
       <Button
         disabled={page === lastPage}
         to={
           page === lastPage
              ? undefined
              : buildLink({ username, tag, page: page + 1 })
         }
         다음
       </Button>
     </PaginationBlock>
  );
};
export default Pagination;
components/common/Button.js
import React from 'react';
import styled, { css } from 'styled-components';
import { Link } from 'react-router-dom';
import palette from '../../lib/styles/palette';
const buttonStyle = css`
  border: none;
  border-radius: 4px;
  font-size: 1rem;
  font-weight: bold;
  padding: 0.25rem 1rem;
  color: white;
  outline: none;
  cursor: pointer;
  background: ${palette.gray[8]};
  &:hover {
    background: ${palette.gray[6]};
  }
  ${props =>
```

```
props.fullWidth &&
     css'
      padding-top: 0.75rem;
      padding-bottom: 0.75rem;
      width: 100%;
      font-size: 1.125rem;
    `}
  ${props =>
     props.cyan &&
     css`
      background: ${palette.cyan[5]};
      &:hover {
        background: ${palette.cyan[4]};
      }
    `}
  &:disabled {
    background: ${palette.gray[3]};
    color: ${palette.gray[5]};
    cursor: not-allowed;
  }
const StyledButton = styled.button`
  ${buttonStyle}
const StyledLink = styled(Link)`
  ${buttonStyle}
const Button = props => {
  return props.to? (
     <StyledLink {...props} cyan={props.cyan ? 1 : 0} />
  ): (
    <StyledButton {...props} />
  );
};
export default Button;
containers/posts/PaginationContainer.js
import React from 'react';
import Pagination from '../../components/posts/Pagination';
import { useSelector } from 'react-redux';
import { useParams, useSearchParams } from 'react-router-dom';
const PaginationContainer = () => {
  const [searchParams] = useSearchParams();
  const { username } = useParams();
  const tag = searchParams.get('tag');
  // page가 없으면 1을 기본값으로 사용
  const page = parseInt(searchParams.get('page'), 10) || 1;
```

```
const { lastPage, posts, loading } = useSelector(({ posts, loading }) => ({
     lastPage: posts.lastPage,
    posts: posts.posts,
     loading: loading['posts/LIST_POSTS'],
  }));
  // 포스트 데이터가 없거나 로딩 중이면 아무것도 보여주지 않음
  if (!posts || loading) return null;
  return (
     <Pagination</pre>
       tag={tag}
       username={username}
       page={parseInt(page, 10)}
       lastPage={lastPage}
  );
};
export default PaginationContainer;
pages/PostListPage.js
// import PostList from '../components/posts/PostList';
import HeaderContainer from '../containers/common/HeaderContainer'
import PaginationContainer from '../containers/posts/PaginationContainer';
import PostListContainer from '../containers/posts/PostListContainer';
const PostListPage = () => {
  return (
       <HeaderContainer />
       {/* <PostList /> */}
       <PostListContainer />
       <PaginationContainer />
    </>>
  );
};
export default PostListPage;
```

