Министерство науки и высшего образования Российской Федерации



Калужский филиал

федерального государственного бюджетного образовательного учреждения высшего образования

«Московский государственный технический университет имени Н.Э. Баумана (национальный исследовательский университет)» (КФ МГТУ им. Н.Э. Баумана)

ФАКУЛЬТЕТ <u>ИУК «Информатика и управление»</u>				
КАФЕДРА <u>ИУК4 «Программное</u> технологии»	обеспечение Эл	BM u	информацио	<u>нные</u>
ДОМАШНЯЯ РАБОТА				
ДИСЦИПЛИНА: «ПРОЕКТИРОВА ОБРАБОТКИ		A XP.	АНЕНИЯ И	
Выполнил: студент гр. ИУК4-52Б	(Подпись)	_ (_	Губин Е.В (Ф.И.О.))
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Дата сдачи (защиты):				
Результаты сдачи (защиты): - Балльная	н оценка:			

- Оценка:

Цель: Разработка клиентского приложения (CRUD-операции с таблицами БД)

Сервер

Роутер для постов:

```
import { Router } from "express";
import postController from "../controllers/post-controller";
import authMiddleware from "../middlewares/auth-
middleware":
import { param } from "express-validator";
const postRouter = Router();
postRouter·post("/", authMiddleware,
postController·newPost);
postRouter·get("/all", authMiddleware,
postController·getAllPosts)
postRouter get(
    "/repost/:childrenPostId",
    param("childrenPostId")·isNumeric(),
    authMiddleware.
    postController·getPostsByChildrenPostId
);
postRouter · get(
    "/posts/:userld",
    param("userId") · isNumeric(),
    authMiddleware,
    postController.getPostsByUserId
```

```
);
postRouter get(
    "/:postId",
    param("postId")·isNumeric(),
    authMiddleware,
    postController.getPostBytId
);
postRouter·delete(
    "/:postId",
    param("postId")·isNumeric(),
    authMiddleware,
    postController·deletePost
);
export default postRouter;
Контроллер для постов:
import { NextFunction, Request, Response } from "express";
import INewPost from "../interfaces/INewPost";
import postService from "../services/post-service";
import { validationResult } from "express-validator";
import ApiError from "../exceptions/ApiError";
class PostController {
    async newPost(reg: Request, res: Response, next:
NextFunction) {
        try {
            const newPost: INewPost = req.body;
```

```
const authorld =
Number(res·locals·userData·userId);
            const newPostData = await
postService·newPost(newPost, authorId);
            res·json({ ···newPostData });
       } catch (error) {
            next(error);
       }
   }
    async getPostsByUserId(req: Request, res: Response,
next: NextFunction) {
        try {
            const errors = validationResult(req);
            if (!errors·isEmpty()) {
                throw ApiError·BadRequest("Incorrect
userId", errors array());
            }
            const userId = Number(req·params·userId);
            const posts = await
postService.getPostsByUserId(userId);
            res·json({ posts });
       } catch (error) {
            next(error);
       }
```

```
async getPostBytId(reg: Request, res: Response, next:
NextFunction) {
        try {
            const errors = validationResult(req);
            if (!errors·isEmpty()) {
                throw ApiError·BadRequest("Incorrect post
id", errors·array());
           }
            const postId = Number(reg·params·postId);
            const postData = await
postService·getPostById(postId);
            res·json({ ···postData });
       } catch (error) {
            next(error);
       }
   }
    async deletePost(reg: Request, res: Response, next:
NextFunction) {
        try {
            const errors = validationResult(req);
            if (!errors·isEmpty()) {
                throw ApiError·BadRequest("Incorrect
postId", errors array());
           }
            const postId = Number(req·params·postId);
            const post = await
postService·deletePostById(postId);
```

```
res·json({ ···post });
        } catch (error) {
            next(error);
        }
   }
    async getPostsByChildrenPostId(
        req: Request,
        res: Response,
        next: NextFunction
   ) {
        try {
            const errors = validationResult(req);
            if (!errors·isEmpty()) {
                throw ApiError·BadRequest(
                     "Incorrect children post id",
                     errors·array()
                );
            }
            const childrenPostId =
Number(req.params.childrenPostId);
            const posts = await
postService·getPostsByChildrenPostId(
                childrenPostId
            );
            res·json({ posts });
        } catch (error) {
            next(error);
```

```
}
   }
    async getAllPosts(reg: Request, res: Response, next:
NextFunction) {
        try {
            const posts = await postService·getAllPosts();
            res·json({ posts });
       } catch (error) {
            next(error);
   }
}
export default new PostController();
Сервис для постов:
import INewPost from "../interfaces/INewPost";
import db from "../db";
import IPostFromDataBase from
"../interfaces/IPostFromDataBase";
import PostDto from "../dtos/post-dto";
import userService from "·/user-service";
import ApiError from "../exceptions/ApiError";
import dateTimeService from "·/dateTime-service";
class PostService {
    async newPost(newPost: INewPost, authorId: number) {
```

```
if (!(await userService·userIsExistsById(authorId))) {
            throw ApiError·BadRequest("User with this id
aren't exist");
       }
       if (
            newPost·childrenPostId &&
            !(await
this · postIsExistsById(newPost · childrenPostId))
       ) {
            throw ApiError·BadRequest("Children post isn't
found");
        const nowFormattedDateTime =
dateTimeService·getNowDate();
        const postFromDataBase: IPostFromDataBase = (
            await db.query(
                `INSERT INTO posts (content,
publication date time, children post id, post author id)
VALUES ($1, $2, $3, $4) RETURNING **,
               newPost·content.
                    nowFormattedDateTime,
                    newPost·childrenPostId,
                   authorld,
```

```
postFromDataBase·publication_date_time =
dateTimeService·formatDateTime(
           postFromDataBase·publication_date_time
       );
        return new PostDto(postFromDataBase);
   }
    async getPostsByUserId(userId: number) {
       if (!(await userService·userIsExistsById(userId))) {
            throw ApiError·BadRequest("User with this id
aren't exist");
       }
       if (await userService·userIsExistsById(userId)) {
            const posts: IPostFromDataBase[] = (
                await db.query(
                    `SELECT * FROM posts WHERE
post author id = $1`,
                   [userId]
           )·rows;
            return posts·map((post) => {
                post publication date time =
dateTimeService·formatDateTime(
                   post publication date time
               );
```

)·rows[0];

```
return new PostDto(post);
           });
       }
        throw ApiError·BadRequest("User with this id aren't
exists");
   }
    async getPostByld(postId: number) {
       if (!(await this postls Exists Byld(postld))) {
            throw ApiError·ResourseNotFound();
       }
       const postData: IPostFromDataBase = (
           await db.query("SELECT * FROM posts WHERE
post_id = $1", [postId])
       )·rows[0];
       postData·publication_date_time =
dateTimeService·formatDateTime(
           postData·publication date time
       );
       return new PostDto(postData);
   }
    async deletePostByld(postld: number) {
       if (await this postls Exists Byld (postld)) {
           const post: IPostFromDataBase = (
                await db.query(
                    "DELETE FROM posts WHERE post id =
$1 RETURNING *".
```

```
[postId]
                )
            ) · rows[0];
            post·publication_date_time =
dateTimeService·formatDateTime(
                post publication date time
           );
            return new PostDto(post);
       }
        throw ApiError·BadRequest("Post with this id aren't
found");
   }
    async postlsExistsByld(postld: number) {
        const postById: IPostFromDataBase[] = (
            await db.query(`SELECT * FROM posts WHERE
post_id = $1`, [postId])
       )·rows;
       if (postByld·length == 0) {
            return false;
       }
        return true;
   }
    async getPostsByChildrenPostId(childrenPostId: number)
{
       if (!(await this postIsExistsById(childrenPostId))) {
```

```
throw ApiError·BadRequest("Children post isn't
found");
        const posts: IPostFromDataBase[] = (
            await db.query("SELECT * FROM posts WHERE
children post id = $1", [
                childrenPostId,
           7)
       )·rows;
        return posts·map((post) => {
            post publication date time =
dateTimeService·formatDateTime(
                post \cdot publication\_date\_time
           );
            return new PostDto(post);
       });
   }
    async getPostIdsByAuthorId(authorId: number) {
        if (!(await userService·userIsExistsById(authorId))) {
            throw ApiError·BadRequest("Author id isn't
found");
        const ids: number[] = (
            await db.query(
                "SELECT post id FROM posts WHERE
post author id = $1",
                [authorId]
```

```
)·rows;
        return ids;
   }
    async getAllPosts() {
        const posts: IPostFromDataBase[] = (
            await db.query("SELECT * FROM posts", [])
        )·rows;
        return posts·map((post) => {
            post publication date time =
dateTimeService·formatDateTime(
                post·publication_date_time
            );
            return new PostDto(post);
       });
   }
}
export default new PostService();
                          Клиент
Axios для работы с сервером над постами:
import $api from "../http";
import IGetPost from "../interfaces/IResponses/IGetPost";
export default class PostService {
```

```
static async getPostsByUserId(userId: number) {
        return await $api·get<{ posts: IGetPost[]
}>(`/post/posts/${userId}`);
    }
    static async getPostByld(postId: number) {
        return await $api.get<IGetPost>(`/post/${postId}`);
    }
    static async getPostsByChildrenPostId(childrenPostId:
number) {
        return await $api get < { posts: | GetPost[] } > (
             `/post/repost/${childrenPostId}`
        );
    }
    static async newPost(
        content: string,
        childrenPostId: number | null = null
    ) {
        return await $api.post</GetPost>("/post", {
content, childrenPostId });
    }
    static async deletePost(postId: number) {
        return await
$api·delete<IGetPost>(`/post/${postId}`);
    }
```

```
static async getALIPosts() {
    return await $api·get<{ posts: IGetPost[]
}>("/post/all");
  }
}
```

Пользовательский интерфейс

Компонент пост:

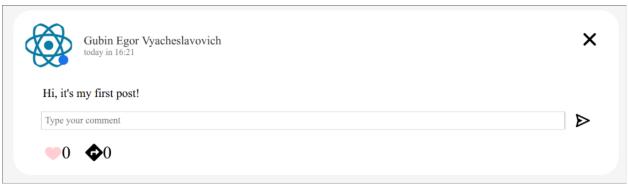


Рис. 1: Пост

```
import React, { ChangeEvent, useContext, useEffect, useState } from "react"; import s from "·/Post·module·css"; import IPost from "·/·/interfaces/IProps/IPost"; import DateTimeService from "·/·/services/dateTime-service"; import PostService from "·/·/services/post-service"; import IGetPost from "·/·/interfaces/IResponses/IGetPost"; import IUser from "·/·/interfaces/IResponses/IUser"; import UserService from "·/·/services/user-service";
```

```
import ProfileImageService from "../../services/profileImage-
service";
import classNames from "classnames";
import IGetComment from
"../../interfaces/IResponses/IGetComment";
import Comment from "../Comment/Comment";
import CommentService from "../../services/comment-
service";
import { BiSend } from "react-icons/bi";
import { FcLikePlaceholder } from "react-icons/fc";
import { FcLike } from "react-icons/fc";
import ReactionService from "../../services/reaction-service";
import IGetReaction from
"../../interfaces/IResponses/IGetReaction";
import { Context } from "../..";
import { FaDirections } from "react-icons/fa";
import { observer } from "mobx-react-lite";
import { loClose } from "react-icons/io5";
import PostImageService from "../../services/postImage-
service":
import ImageSlider from "../ImageSlider/ImageSlider";
import { useNavigate } from "react-router-dom";
import io from "socket·io-client";
import { globalSocket } from "../../globalSocket";
import { GrStatusGoodSmall } from "react-icons/gr";
const Post: React·FC<IPost> = ({
    post,
```

```
isChild.
    setCreatePostFormIsOpened,
    setRepost,
    setPosts.
}) => {
    const { store } = useContext(Context);
    const [postAvatarImage, setPostAvatarImage] =
useState("");
    const [author, setAuthor] = useState({} as IUser);
    const [postImages, setPostImages] =
useState<string[7>([7]);
    const [comments, setComments] =
useState<IGetComment[]>([]);
    const [childPost, setChildPost] = useState<JSX·Element
/ null>(null);
    const [showAllComments, setShowAllComments] =
useState<boolean>(false);
    const [newComment, setNewComment] = useState("");
    const [isReaction, setIsReaction] = useState(false);
    const [reactionsAmount, setReactionsAmount] =
useState(0);
    const [repostsAmount, setRepostsAmount] =
useState(0);
    const [isOnline, setIsOnline] = useState(false)
    const navigate = useNavigate();
```

```
const openPageByAvatar = () => {
        if (store·user·userId !== post·postAuthorId) {
            navigate(`/profile/${post·postAuthorId}`);
       }
   };
    const loadPostAvatarImage = async () => {
        setPostAvatarImage(
            (await
ProfileImageService·getProfileImage(post·postAuthorId))·data
                ·src
       );
   };
    const loadAuthor = async () => {
        setAuthor((await
UserService · getUserByld(post · postAuthorld)) · data);
   };
    const loadPostImages = async () => {
        setPostImages(
            (await
PostImageService·getPostImages(post·postId))·data·postImage
S
       );
   };
    const loadComments = async () => {
```

```
setComments(
                await
CommentService \cdot getCommentsByPostId(post \cdot postId)
            ) · data · comments · sort((first, second) => {
                const dateFirst = new
Date(first·commentDateTime);
                const dateSecond = new
Date(second·commentDateTime);
                return dateSecond·getTime() -
dateFirst·getTime();
            })
        );
   };
    const loadChildPost = async () => {
        if (post-childrenPostId) {
            const childPostData = (
                await
PostService·getPostById(post·childrenPostId)
            )·data;
            setChildPost(<Post post={childPostData}</pre>
isChild={true} />);
    };
    const laodReactions = async () => {
        const reactionsData = (
```

```
await
```

```
Reaction Service \cdot getReactions By PostId(post \cdot postId)
        )·data·reactions;
        setReactionsAmount(reactionsData·length);
        for (let i = 0; i < reactionsData·length; i++) {
             if (reactionsData[i]·reactionAuthorId ===
store·user·userId) {
                 setIsReaction(true);
                 return;
    };
    const loadReposts = async () => {
        setRepostsAmount(
             (await
PostService \cdot getPostsByChildrenPostId(post \cdot postId)) \cdot data \cdot post
S
                 ·length
        );
    };
    const loadIsOnline = async () => {
        setIsOnline((await
UserService·getStatus(post·postAuthorId))·data·isOnline)
    }
    useEffect(() => {
```

```
loadAuthor();
        loadPostImages();
        loadChildPost();
        loadPostAvatarImage();
        laodReactions();
        loadReposts();
        loadIsOnline()
        if (!isChild) {
            loadComments();
        }
        const socket = io(globalSocket);
        socket emit ("subscribe_image", {
            userId: post·postAuthorId,
        });
        socket·emit("subscribe_like", {
            postld: post·postld,
            authorld: store·user·userld,
        });
        socket·emit("subscribe online", {userId:
post·postAuthorId });
        socket·on("set_image", () => {
            loadPostAvatarImage();
        });
        socket·on("set_like", ({ operation }: { operation:
number }) => {
            console·log(operation)
            setReactionsAmount((prev) => prev +
operation);
```

```
});
        socket·on("set_status", ({ isOnline }: { isOnline:
boolean }) => {
            setIsOnline(isOnline);
        });
        return () => {
            socket·off("set_status");
            socket·off("set_like");
            socket·off("set_image");
            socket·disconnect();
        };
   }, []);
    return (
        <div className={classNames(s·post, { [s·left_border]:</pre>
isChild })}>
            <div className={s·post_header}>
                 <div
                     className={s·profile_post_image}
                     onClick={openPageByAvatar}
                     style={{
                         backgroundImage:
`url(${postAvatarImage})`,
                    }}
                 >
                 {isOnline && (
                     <GrStatusGoodSmall
className={s·online} />
```

```
)}</div>
                <div className={s·date_time_fio}>
                    <div className={s·post_fio}>
                        \{[
                            author·lastName.
                            author · first Name,
                            author · patronymic,
                        ]·join(" ")}
                    </div>
                    <div className={s·pub_post_date_time}>
{DateTimeService·formDate(post·publicationDateTime)}
                    </div>
                </div>
            </div>
            <div
className={s.post_content}>{post.content}</div>
            </mageSlider images={postImages} />
            {childPost}
            {comments·length !== 0 &&
                comments·map((comment, index) => {
                    if (showAllComments ||
comments·length <= 2)
                        return (
                            <Comment
                                isMyPost={
                                    store·user·userld ===
post·postAuthorld
```

```
}
                              comment={comment}
                              key={comment·commentId}
setComments={setComments}
                      );
                  if (index <= 1)
                      return (
                          <Comment
                              isMyPost={
                                  store·user·userld ===
post·postAuthorld
                              }
                              comment={comment}
                              key={comment·commentId}
setComments={setComments}
                      );
                   return null;
              })}
           {comments·length > 2 ? (
               showAllComments? (
                   <span
                      className={s·manage_comments}
                      onClick={() =>
setShowAllComments(false)}
```

```
>
                       Hide comments
                   </span>
               ):(
                   <span
                       className={s·manage_comments}
                       onClick={() =>
setShowAllComments(true)}
                       Show all commets...
                   </span>
               )
           ) : null}
           {!isChild ? (
               <div className={s·new_comment}>
                    <textarea
                       placeholder="Type your comment"
                       className={s·comment_area}
                       rows={1}
                       value={newComment}
                       onChange={(event) => {
                           const textarea = event·target;
                           textarea·style·height = "auto";
                           textarea·style·height =
                               textarea·scrollHeight + "px";
```

```
setNewComment(event·target·value);
                    ></textarea>
                    <BiSend
                        onClick={() => {
CommentService · newComment(newComment, post · postId)
                                ·then((response) =>
response·data)
                                ·then((data) =>
                                    setComments((prev) =>
[data, ···prev])
                                );
                            setNewComment("");
                       }}
                        className={s·send_comment}
                </div>
           ) : null}
            {isChild ? null : (
                <div className={s·reaction_repost}>
                    <div
                        className={s·reactions_amount}
                        onClick={
                            isReaction
                                ? () => {
```

```
ReactionService·deleteReaction(
                                           post·postId
                                           ·then((response)
=> response·data)
                                            ·then((data) => {
setReactionsAmount(
                                                    (prev) =>
prev - 1
                                                );
setIsReaction(false);
                                           });
                                       const socket =
io(globalSocket);
socket·emit("change_like", {
                                           postld:
post·postId,
                                            operation: -1,
                                            authorld:
store·user·userld,
```

```
Reaction Service \cdot new Reaction (post \cdot post Id)
                                              ·then((response)
=> response·data)
                                              ·then((data) => {
setReactionsAmount(
                                                       (prev) =>
prev + 1
                                                  );
setIsReaction(true);
                                             });
                                         const socket =
io(globalSocket);
socket·emit("change_like", {
                                              postld:
post·postld,
                                              operation: 1,
                                              authorld:
store·user·userld,
                                         });
                          {isReaction ? (
```

```
<FcLike
className={s·reaction_button} />
                        ):(
                            <FcLikePlaceholder
className={s·reaction_button} />
                        )}{" "}
                        {reactionsAmount}{" "}
                    </div>
                    <div
                        className={classNames({
                            [s·reposts_amount]:
                                post·postAuthorld !==
store·user·userld,
                            [s·repost_amount_unself]:
                                post·postAuthorld ===
store·user·userld,
                        })}
                        onClick={
                            post·postAuthorld ===
store·user·userld
                                ?() => {}
                                : () => {
                                      if (
setCreatePostFormIsOpened &&
                                          setRepost
                                      ) {
```

```
setCreatePostFormIsOpened(true);
                                           setRepost(post);
                                      }
                                  }
                        <FaDirections
className={s·repost_button} />{" "}
                        {repostsAmount}
                    </div>
                </div>
            )}
            {isChild || post·postAuthorId !==
store·user·userld ? null : (
                <loClose
                    className={s·close}
                    onClick={() => {
                        PostService·deletePost(post·postId)
                            ·then((response) =>
response·data)
                            ·then((data) => {
                                if (setPosts)
                                     setPosts((prev) =>
                                         prev-filter(
                                             (postData) =>
```

```
);
                                    const socket =
io(globalSocket);
                                    socket·emit("delete_post", {
                                         postld: data·postld,
                                         authorld:
data·postAuthorld,
                                    });
                               });
                      }}
         </div>
    );
};
export default observer(Post);
```

Форма для создания поста:

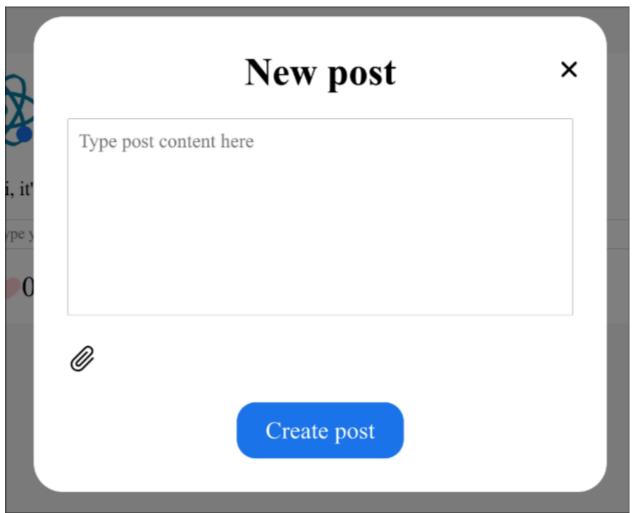


Рис. 2: Форма для создания поста

```
import React, { Change Event, use Ref, use State } from "react";
import s from "·/NewPostForm·module·css";
import { FormButton } from
"··/UI/FormButton/FormButton";
import { GoPaperclip } from "react-icons/go";
import PostService from "··/··/services/post-service";
import PostImage Service from "··/··/services/postImage-service";
import INewPostForm from
"··/··/interfaces/IProps/INewPostForm";
```

```
import io from "socket·io-client";
import { globalSocket } from "../../globalSocket";
export const NewPostForm: React·FC<INewPostForm> = ({
    setPosts.
    repost,
    setRepost,
    setCreatePostFormIsOpened,
    isFromPostsPage,
}) => {
    const [content, setContent] = useState("");
    const fileInputRef = useRef<HTMLInputElement>(null);
    const [files, setFiles] = useState<File[]>([]);
    const [filesImages, setFilesImages] =
useState<string[]>([]);
    const setImages = (event:
ChangeEvent<HTMLInputElement>) => {
        const filesEvent = event·target·files;
        if (!filesEvent | | filesEvent·length === 0) {
            return;
        }
        const permitted Types = ["image/jpeg", "image/jpg",
"image/png"];
        for (let i = 0; i < filesEvent·length; i++) {
            if (!permittedTypes·includes(filesEvent[i]·type))
{
                return;
```

```
}
       }
        const filesArray = Array·from(filesEvent);
        setFiles(filesArray);
        setFilesImages(
            filesArray·map(
                (fileData) =>
`url(${URL·createObjectURL(fileData)})`
        );
   };
    return (
        <div className={s·new_post_form}>
            <div className={s·container}>
                <textarea
                    rows={8}
                    placeholder="Type post content here"
                    className={s·content}
                    value={content}
                    onChange={(event) =>
setContent(event·target·value)}
                ></textarea>
                <div className={s·selected_images}>
                    <GoPaperclip
                        className={s·clip}
                        onClick={() =>
fileInputRef·current?·click()}
```

```
{filesImages·map((file) => (
                         <div
                             className={s·image}
                             style={{
                                 backgroundImage: file,
                             }}
                         ></div>
                     ))}
                 </div>
                 <input
                     ref={fileInputRef}
                     type="file"
                     multiple={true}
                     accept=".jpg, .jpeg, .png"
                     onChange={setImages}
                     className={s·file_input}
                />
            </div>
            <FormButton
                 onClick={
                     repost
                         ? async () => {
                               const post = (
                                    await
PostService · newPost(
                                        content,
                                        repost·postId
```

/>

```
)·data;
                               await
PostImageService·newPostImages(
                                   files,
                                   post-postId
                               );
                               setRepost(null);
                               setContent("");
                               setFiles([]);
                               setFilesImages([]);
setCreatePostFormIsOpened(false);
                               if (isFromPostsPage)
                                   setPosts((prev) => [post,
...prev7);
                               const socket =
io(globalSocket);
                               socket·emit("new_post", {
post });
                          }
                         : async () => {
                               const post = (await
PostService·newPost(content))
                                   ·data:
                               await
PostImageService·newPostImages(
                                   files,
```

```
post·postId
                               );
                               setContent("");
                               setFiles([]);
                               setFilesImages([]);
setCreatePostFormIsOpened(false);
                               setPosts((prev) => [post,
...prev]);
                               const socket =
io(globalSocket);
                               socket·emit("new_post", {
post });
                          }
                }
                type="button"
                Create post
            </FormButton>
        </div>
    );
};
```

Страница постов:

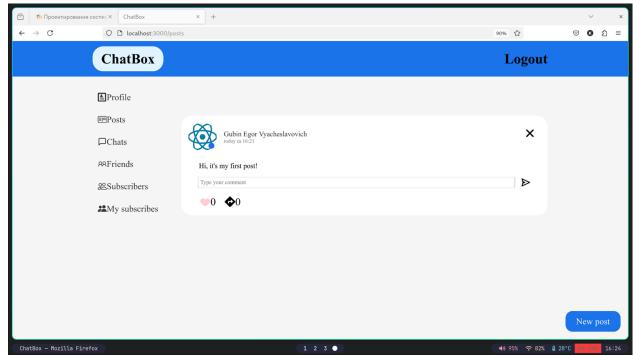


Рис. 3: Страница постов

```
import React, { useEffect, useState } from "react";
import s from "·/PostsPage·module·css";
import IGetPost from "··/··/interfaces/IResponses/IGetPost";
import PostService from "··/··/services/post-service";
import Post from "··/Post/Post";
import { ModalWindow } from
"··/ModalWindow/ModalWindow";
import { NewPostForm } from
"··/NewPostForm/NewPostForm";
import { FormButton } from
"··/UI/FormButton/FormButton";

export const PostsPage: React·FC = () => {
    const [posts, setPosts] = useState<IGetPost[]>([]);
    const [createPostFormIsOpened] = useState(false);
```

```
const [repost, setRepost] = useState<IGetPost |
null>(null);
    const loadPosts = async () => {
        const postsData = (await
PostService·getALIPosts())·data·posts;
        setPosts(
            postsData·sort((first, second) => {
                const dateFirst = new
Date(first·publicationDateTime);
                const dateSecond = new
Date(second·publicationDateTime);
                return dateSecond·getTime() -
dateFirst·getTime();
           })
        );
   };
    useEffect(() => {
        loadPosts():
   }, []);
    return (
        <div>
            {posts·map((post) => (
                <Post
                    key={post·postId}
                    post={post}
```

```
setCreatePostFormIsOpened={setCreatePostFormIsOpened}
                   setPosts={setPosts}
               />
           ))}
           <FormButton
               className={s·new_post}
               type="button"
               onClick={() =>
setCreatePostFormIsOpened(true)}
               New post
           </FormButton>
           < Modal Window
               isOpened={createPostFormIsOpened}
               setIsOpened={setCreatePostFormIsOpened}
               header="New post"
           >
               <NewPostForm
setCreatePostFormIsOpened={setCreatePostFormIsOpened}
                   setPosts={setPosts}
                   repost={repost}
                   setRepost={setRepost}
                   isFromPostsPage={true}
               />
```

isChild={false}

setRepost={setRepost}

```
</ModalWindow>
</div>
);
};
```

Вывод: в ходе лабораторной работы были реализованы CRUD операции для работы с постами.