Name and Last Name:	Jacek Mstowski
Index number:	299720
Department:	Metal Engineering and Industrial Computer Science
Field of Study	Applied Computer Science
Subject:	Internet Engineering
Date:	11.09.2020

1. Routing in project.

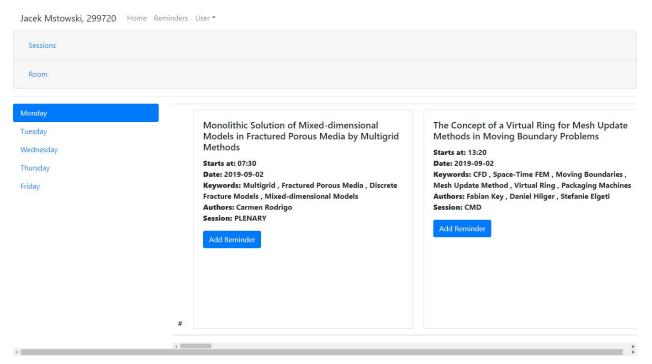
I have created new file named Routing.js. Because of routing used here the page don't need to reload everytime we wanted to go others routes.

This whole element I am passing to main file App.js

We can see that our Navigation bar is another file to just simplify the look of main app.

```
export class Navigation extends Component {
 render() {
   return (
            <Navbar>
      <Navbar.Brand href="#home">Jacek Mstowski, 299720</Navbar.Brand>
  <Navbar.Toggle aria-controls="basic-navbar-nav" />
  <Navbar.Collapse id="basic-navbar-nav">
   <Nav className="mr-auto">
      <Nav.Link href="/">Home</Nav.Link>
      <Nav.Link href="/reminders">Reminders</Nav.Link>
     <NavDropdown title="User" id="basic-nav-dropdown">
        <NavDropdown.Item href="/login">Login</NavDropdown.Item>
        <NavDropdown.Item href="/logout">Logout</NavDropdown.Item>
        <NavDropdown.Item href="/register">Register</NavDropdown.Item>
       <NavDropdown.Item href="/userinfo">About User</NavDropdown.Item>
      </NavDropdown>
    </Nav>
       </Navbar.Collapse>
    </Navbar>
    );
```

And the main look of my app:



2. Communication with API.

For communication I used the axios library. I have created configuration file for some configuration that we can do, but for now its not necessary because i have there only URL(Computed URL: http://ie2020.kisim.eu.org/api) of API. One time I used fetch to get data to check how it is working(While using fetch there was some problems with cors policy, which i can't repair).

```
export const config = {
   baseURL: `https://ie2020.kisim.eu.org/api`
};
```

```
import axios from 'axios'
import {config} from '../configuration.js'
export default axios.create({
    baseURL: config.baseURL
});
```

With axios we can easily send queries to API to get any data we want. There will be a few examples of using axios(Get, Put and Delete)
GET

```
export const Register = () => {
    const history = useHistory();

const onSubmit = (event) => {
    event.preventDefault();
    let formElements = event.currentTarget.elements;
    console.log(event.currentTarget.elements.email.value);
    API.post('/users', {email: formElements.email.value, password: formElements.password.value})
    .then(response => {
        console.log('success')
        console.log('id:', response.id)
        history.push('/user')
     })
    .catch(errInfo => {
     })
};
```

PUT

DELETE

```
function remDelete() {
    API.delete(`/reminders/${rem.id}`, {headers:{Authorization:`Bearer ${props.token}`}})
    .then(res=>{
        console.log("Reminder Deleted");
        window.location.reload();
    })
    .catch(err=>{
        console.log("Error")
    })
}
```

3. JWT Token storage.

Token is stored in cookies. There is easy access to it. We can import "js-cookies" library to manage this.

Setting token on login:

```
console.log('Login successful.');
Cookies.set('token', response.data.token, {expires: 1});
```

Getting token to do something(with fetch example):

4. Validation

Same validation is used in Logging.
Blank Forms(inform us about requirements)

	Reminders	0301
Email address		
Enter email		
We'll never share your email with anyone else.		
Password		
Minimum Length = 7		
Register		
No Validate		
Email address		
withoutEmailsign		
We'll never share your email with anyone else.		
Password		

Register		
Register Validate		
√alidate		
Validate Email address		
Validate Email address withEmailsign@gmail.com		

We can see that color change if form is validate or not.

Here is a code for it

```
export const Register = () => {
   const history = useHistory();
   const [validated, setValidated] = useState(false);
   const onSubmit = (event) => {
     event.preventDefault();
     let formElements = event.currentTarget.elements;
     if (event.currentTarget.checkValidity() === false) {
       event.preventDefault();
       event.stopPropagation();
     setValidated(true);
     console.log(event.currentTarget.elements.email.value);
       API.post('/users', {email: formElements.email.value, password: formElements.password.value})
            .then(response => {
               console.log('success')
               console.log('id:', response.id)
               history.push('/user')
           .catch(errInfo => {
```

5. Link to repository

https://github.com/jmstowski19/IE2020

6. Components

Project has three main components: presentations, reminders and user Presentations:

```
export const PresentationDisplay = (props) => {
    const token=Cookies.get('token');
    function moreInfo() {
        return(
                <br/>
<b>Starts at:</b> {props.date.substr(11, 5)}<br/>
<br/>
                 <b>Date:</b> {props.date.substr(0, 10)}<br/>
                <b>Keywords:</b> {props.keywords.join(', ')}<br/>
                <br/>
<br/>
downwards (b) Authors:</br/>
{props.authors.join(', ')}<br/>
br/>
                 <b>Session:</b> {props.session}<br/>
    function remPost() {
        console.log(props.id)
        API.post(\'/reminders\',
                 "presentationId": props.id,
                "enabled": true},
            {headers: {Authorization: `Bearer ${token}`}})
            .then(response => {
                console.log('Reminder posted.');
            })
            .catch(errInfo => {
                console.log('Reminder post error: ', errInfo)
            });
      const AddReminder= () => (
        <Form onSubmit = {remPost}>
            <Button type="submit">Add Reminder
        </Form>
      );
    return (
                     <Card style={{height: '30rem', width: "30rem"}}>
                     <Card.Body>
                       <Card.Title>{props.title}</Card.Title>
                       <Card.Text>
                       {moreInfo()}
                       </Card.Text>
                       <AddReminder/>
                     </Card.Body>
                   </Card>
```

User info

```
export const UserInfo = () => {
    const [id, setId] = useState('');
const [email, setEmail] = useState('');
    const [createdAt, setCreatedAt] = useState('');
    const [logged, setLogged] = useState(false);
    useEffect( () => {
   const token=Cookies.get('token');
        if(token != null) {
             setLogged(true);
             fetch(`${config.baseURL}/users/me`, {headers:{Authorization:`Bearer ${token}`}})
                 .then(res => {
                     console.log('Data claimed.');
                     return res.json();
                 3)
                 .then(data =>{
                     setId(data.id)
                     setEmail(data.email);
                     setCreatedAt(data.createdAt);
                 .catch(errInfo => {
                     console.log('Data error: ', errInfo)
```

Reminders:

```
export const Reminder = () => {
   const [logged, setLogged] = useState(false);
   const [reminders, setReminders] = useState([]);
   const token=Cookies.get('token')
   useEffect( () => {
      if(token != null) {
          setLogged(true);
          API.get('/reminders', {headers:{Authorization:`Bearer ${token}`}})
              .then(response => {
                  console.log('Reminders claimed.');
                  setReminders(response.data);
              .catch(errInfo => {
                  console.log('Reminders error: ', errInfo)
      []);
   if(logged)
        Table responsive
          #
          {reminders.map(rem => (
          <ReminderDisplay presId={rem.presentationId} remId={rem.id} token={token}/>
      return (
          <>The user is not logged.</>
```

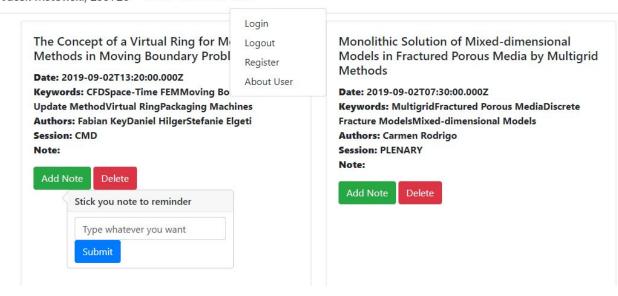
7. State

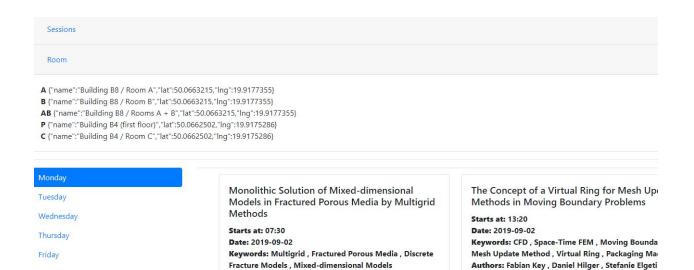
States are storage in api memory. I used react hooks to manage all of states in components.

8. UI Library

I used the bootstrap for creating the interface. This library comes with some standard solutions which i used. I think that the look of the page is minimalistic and readable.

Some Examples:





Session: CMD

Authors: Carmen Rodrigo

Session: PLENARY

9. Others

As we can see app compiled without any warning.

```
You can now view myapi in the browser.

Local: http://localhost:3000
On Your Network: http://192.168.0.12:3000

Note that the development build is not optimized.
```