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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.

```
export const Routing = () => {
  return (
    <>
      <Switch>
        <Route exact path = "/" component={Home}/>
        <Route path = "/reminders" component={Reminder}/>
        <Route path = "/login" component={Login}/>
        <Route path = "/register" component={Register}/>
        <Route path = "/userinfo" component={UserInfo}/>
        <Route path = "/logout" component={Logout}/>
      </Switch>
    </>
  )
}
```

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

```
function App() {
  return (
    <BrowserRouter>
      <Navigation/>
      <Routing/>
    </BrowserRouter>
  );
}

export default App;
```

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:

Jacek Mstowski, 299720 Home Reminders User ▾

Sessions

Room

Monday

Tuesday

Wednesday

Thursday

Friday

Monolithic Solution of Mixed-dimensional Models in Fractured Porous Media by Multigrid Methods

Starts at: 07:30

Date: 2019-09-02

Keywords: Multigrid , Fractured Porous Media , Discrete Fracture Models , Mixed-dimensional Models

Authors: Carmen Rodrigo

Session: PLENARY

Add Reminder

The Concept of a Virtual Ring for Mesh Update Methods in Moving Boundary Problems

Starts at: 13:20

Date: 2019-09-02

Keywords: CFD , Space-Time FEM , Moving Boundaries , Mesh Update Method , Virtual Ring , Packaging Machines

Authors: Fabian Key , Daniel Hilger , Stefanie Elgeti

Session: CMD

Add Reminder

#

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

```
function remPut(event) {
  event.preventDefault();
  let formElements = event.currentTarget.elements;
  API.put(`/reminders/${rem.id}`, { "presentationId": `${pres.id}`, "notes": formElements.note.value,
    "enabled": true }, {headers:{Authorization: `Bearer ${props.token}`}})
    .then(response=>{
      console.log("Note changed")
      setRem({"id": rem.id, "presentationId": rem.presentationId, "notes": formElements.note.value, "enabled": tr
    })
    .catch(err=>{
      console.log(err)
    })
}
```

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):

```
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();
    })
    .then(data =>{
      setId(data.id)
      setEmail(data.email);
      setCreatedAt(data.createdAt);
    })
    .catch(errInfo => {
      console.log('Data error: ', errInfo)
    });
}
```

4. Validation

Same validation is used in Logging.

Blank Forms(inform us about requirements)

Jacek Mstowski, 299720 Home Reminders User ▼

Email address

We'll never share your email with anyone else.

Password

[Register](#)

No Validate

Email address

We'll never share your email with anyone else.

Password

[Register](#)

Validate

Email address

We'll never share your email with anyone else.

Password

[Register](#)

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 => {
      })
  };
};
```

```
return (
  <Form noValidate validated={validated} onSubmit={onSubmit}>
    <Form.Group controlId="formBasicEmail">
      <Form.Label>Email address</Form.Label>
      <Form.Control required type="email" name="email" placeholder="Enter email" />
      <Form.Text className="text-muted">
        We'll never share your email with anyone else.
      </Form.Text>
    </Form.Group>

    <Form.Group controlId="formBasicPassword">
      <Form.Label>Password</Form.Label>
      <Form.Control required type="password" minlength="7" name="password" placeholder="Minimum Length = 7" />
    </Form.Group>
    <Button variant="primary" type="submit">
      Register
    </Button>
  </Form>
);
```

5. Link to repository

<https://github.com/jmstowski19/IE2020>

6. Components

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

```
export const Presentation = (props) => {
  const [presentations, setPresentations] = useState([]);

  useEffect( () => [
    API.get(`/presentations?date=${props.date}`, {})
      .then(response => {
        console.log('Presentations claimed.');
        setPresentations(response.data);
      })
      .catch(errInfo => {
        console.log('Presentations error: ', errInfo)
      })
  ], //eslint-disable-next-line
  []);

  return (
    <Table responsive>
      <thead>
        <tr>
          <th>#</th>
          {presentations.map(pres => (
            <th key={pres.id}><PresentationDisplay keywords={pres.keywords} authors={pres.authors} title={pres.title}
                                                                    filename={pres.filename} session={pres.session} id={pres.id}
                                                                    date={pres.date}</th>
          ))}
        </tr>
      </thead>
    </Table>
  )
};
```

```

export const PresentationDisplay = (props) => {
  const token=Cookies.get('token');

  function moreInfo() {
    return(
      <>
        <b>Starts at:</b> {props.date.substr(11, 5)}<br/>
        <b>Date:</b> {props.date.substr(0, 10)}<br/>
        <b>Keywords:</b> {props.keywords.join(' , ')}<br/>
        <b>Authors:</b> {props.authors.join(' , ')}<br/>
        <b>Session:</b> {props.session}<br/>
      </>
    )
  }

  function remPost() {
    console.log(props.id)
    API.post(`/reminders`,
      {
        "presentationId": props.id,
        "notes": "",
        "enabled": true},
      {headers: {Authorization: `Bearer ${token}`}})
      .then(response => {
        console.log('Reminder posted.');
```


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();
        })
        .then(data => {
          setId(data.id)
          setEmail(data.email);
          setCreatedAt(data.createdAt);
        })
        .catch(errInfo => {
          console.log('Data error: ', errInfo)
        });
    }
  }, //eslint-disable-next-line
  []);
}
```

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)
        });
    }
  }, //eslint-disable-next-line
  []);

  if(logged)
    return (
      <Table responsive>
      <thead>
        <tr>
          <th>#</th>
          {reminders.map(rem => (
            <th key={rem.id}><ReminderDisplay presId={rem.presentationId} remId={rem.id} token={token}/></th>
          ))}
        </tr>
      </thead>
      </Table>
    );
  else
    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:

The Concept of a Virtual Ring for Mesh Update Methods in Moving Boundary Problems

Date: 2019-09-02T13:20:00.000Z

Keywords: CFDSpace-Time FEMMoving Boundary Problems

Update MethodVirtual RingPackaging Machines

Authors: Fabian KeyDaniel HilgerStefanie Elgeti

Session: CMD

Note:

Add Note

Delete

Stick your note to reminder

Type whatever you want

Submit

Login

Logout

Register

About User

Monolithic Solution of Mixed-dimensional Models in Fractured Porous Media by Multigrid Methods

Date: 2019-09-02T07:30:00.000Z

Keywords: MultigridFractured Porous MediaDiscrete Fracture ModelsMixed-dimensional Models

Authors: Carmen Rodrigo

Session: PLENARY

Note:

Add Note

Delete

Sessions

Room

A {"name":"Building B8 / Room A","lat":50.0663215,"lng":19.9177355}
B {"name":"Building B8 / Room B","lat":50.0663215,"lng":19.9177355}
AB {"name":"Building B8 / Rooms A + B","lat":50.0663215,"lng":19.9177355}
P {"name":"Building B4 (first floor)","lat":50.0662502,"lng":19.9175286}
C {"name":"Building B4 / Room C","lat":50.0662502,"lng":19.9175286}

Monday

Tuesday

Wednesday

Thursday

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Add Reminder

9. Others

As we can see app compiled without any warning.

```
Compiled successfully!  
  
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.
```