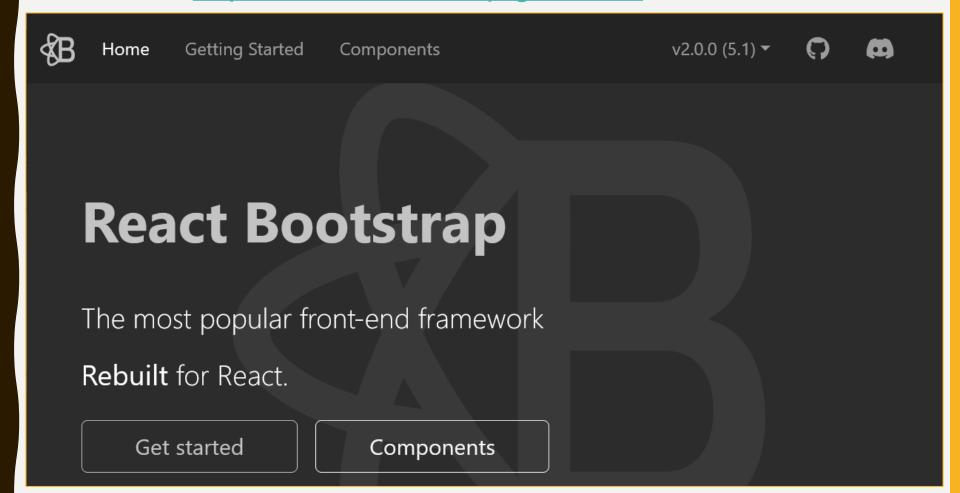
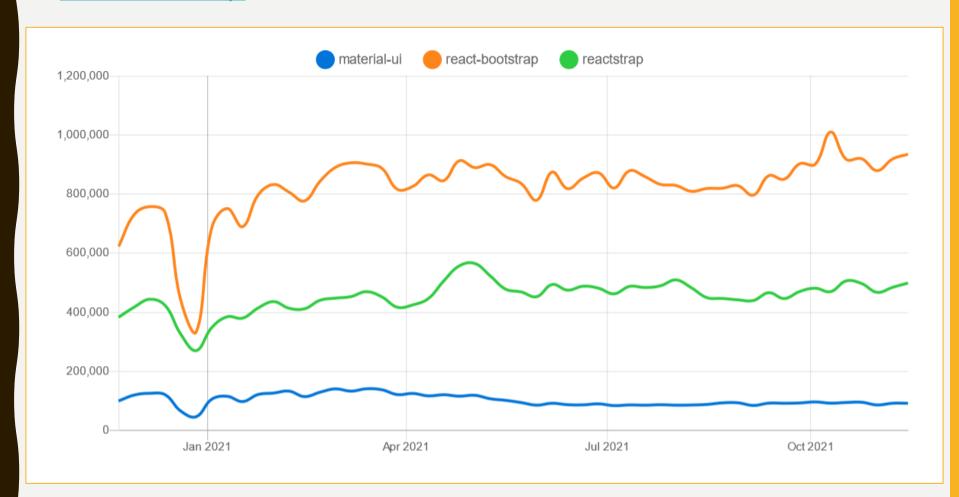
React Bootstrap Framework & Notifying

React-Bootstrap?

- The most popular front-end framework (Bootstrap)
 Rebuilt for React.
- Website: https://react-bootstrap.github.io/



 https://www.npmtrends.com/material-ui-vs-react-bootstrapvs-reactstrap



Integrating react-bootstrap

Website:

https://react-bootstrap.github.io/

- Installing packagenpm i react-bootstrap
- Adding stylesheet in "src/index.tsx" file import 'bootstrap/dist/css/bootstrap.css';

Applying Modal in Major.tsx

```
import { Button, Modal } from "react-bootstrap";
```

```
const Major = () => {
  const [majors, setMajors] = useState<IMajor[]>([]);
  const [major, setMajor] = useState<IMajor>({ id: 0, name: "" });
  const [showModal, setShowModal] = useState(false);

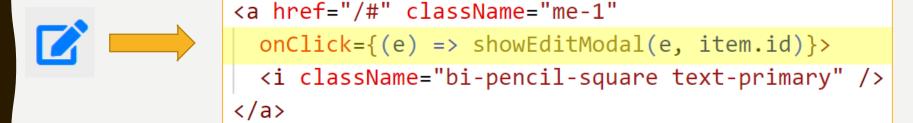
const handleCloseModal = () => setShowModal(false);
  const handleShowModal = () => setShowModal(true);
```

```
const handleChange = (e) => {
  const newData = { ...major };
  newData[e.target.name] = e.target.value;
  setMajor(newData);
};
```

```
<Modal show={showModal} onHide={handleCloseModal}
       size="lg" backdrop="static" keyboard={false}>
  <Modal.Header closeButton>
   <Modal.Title>{major.id > 0 ? "Update" : "New"} Major</Modal.Title>
 </Modal.Header>
  <Modal.Body>
   <form>
     <div className="row">
        <Input label="Major name" type="text"</pre>
         id="txtMajor" name="name"
         onChange={handleChange} defaultValue={major.name}
       />
     </div>
   </form>
 </Modal.Body>
 <Modal.Footer>
   <Button variant="secondary" onClick={handleCloseModal}>Close
   <Button variant="primary" onClick={handleSave}>Save
  </Modal.Footer>
</Modal>
```

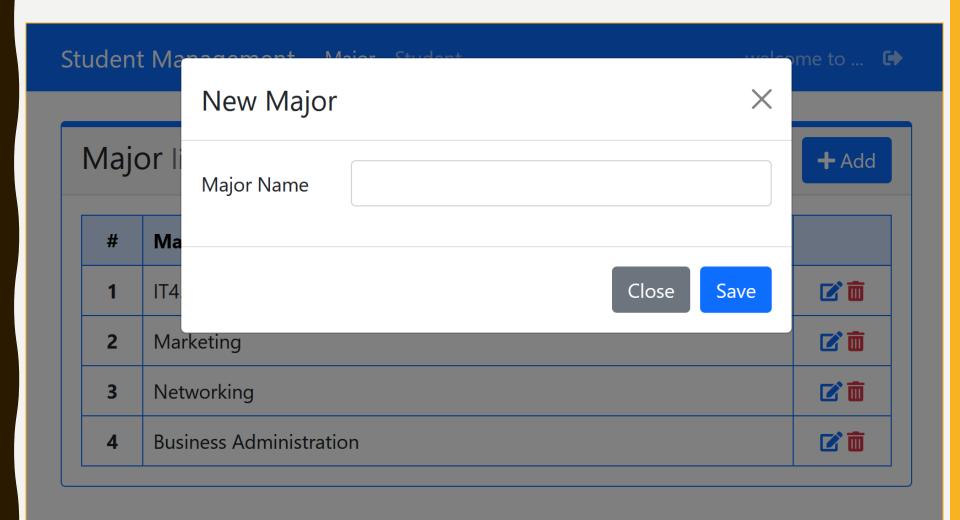
```
const showEditModal = (e: any, id: number) => {
  if (e) e.preventDefault();
  if (id > 0) {
    majorService.get(Number(id)).then((res) => {
      setMajor(res.data);
     handleShowModal();
    });
  } else {
    setMajor({ id: 0, name: "" });
    handleShowModal();
```

```
that the conclick on Click on Clic
```



```
const handleSave = () => {
  if (major.id === 0) {
    majorService.add(major).then((res) => {
      if (res.errorCode === 0) {
        loadData();
        handleCloseModal();
    });
  } else {
    majorService.update(major.id, major).then((res) => {
      if (res.errorCode === 0) {
        loadData();
        handleCloseModal();
    });
};
```

```
<Button variant="primary" onClick={handleSave}>
    Save
</Button>
```



Applying Navbar in Header.tsx

```
<Navbar bg="primary" variant="dark" expand="md">
 <Container>
    <Navbar.Brand as={Link} to="/">Student Management</Navbar.Brand>
    <Navbar.Toggle aria-controls="basic-navbar-nav" />
    <Navbar.Collapse id="basic-navbar-nav">
      <Nav className="me-auto">
        <Nav.Link as={NavLink} to="/major">Major</Nav.Link>
        <Nav.Link href="/#">Student</Nav.Link>
      </Nav>
      <Nav>
        <Nav.Link href="/#">welcome to ...</Nav.Link>
        <Nav.Link as={Link} to="/login">
          <i className="fas fa-sign-out-alt"></i></i>
        </Nav.Link>
      </Nav>
    </Navbar.Collapse>
  </Container>
</Navbar>
```

Student Management



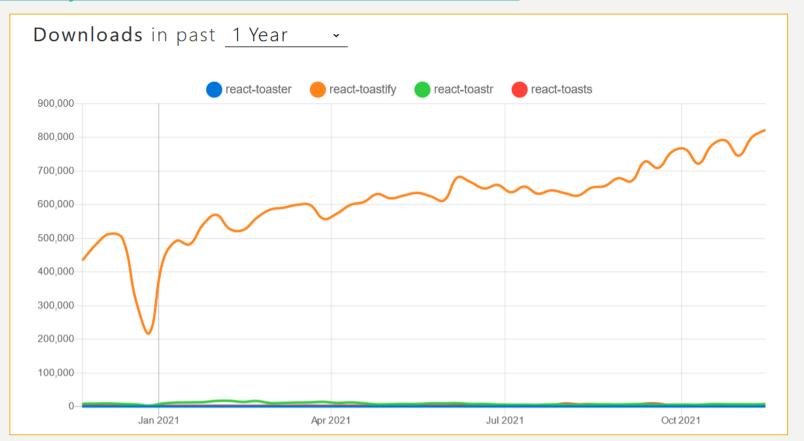
Major list



#	Major Name	
1	Information Technology	
2	Marketing	
3	Networking	
4	Business Administration	

React-Toastify?

- A library to show notifications in React App.
- Website: https://fkhadra.github.io/react-toastify/introduction/
- Trends: <a href="https://www.npmtrends.com/react-toaster-vs-r



Integrating react-toastify

- In terminal, type: npm i react-toastify
- In "index.tsx" file, import & configure "react-toastify"

```
import { ToastContainer } from "react-toastify";
import "react-toastify/dist/ReactToastify.css";
```

```
<ToastContainer
  position="top-right"
 autoClose={5000}
 hideProgressBar={false}
 newestOnTop={true}
 closeOnClick
 rtl={false}
  pauseOnFocusLoss
 draggable
  pauseOnHover
 theme="colored"
<App />
```

Applying react-toastify in Major.tsx

Modify handleDelete function

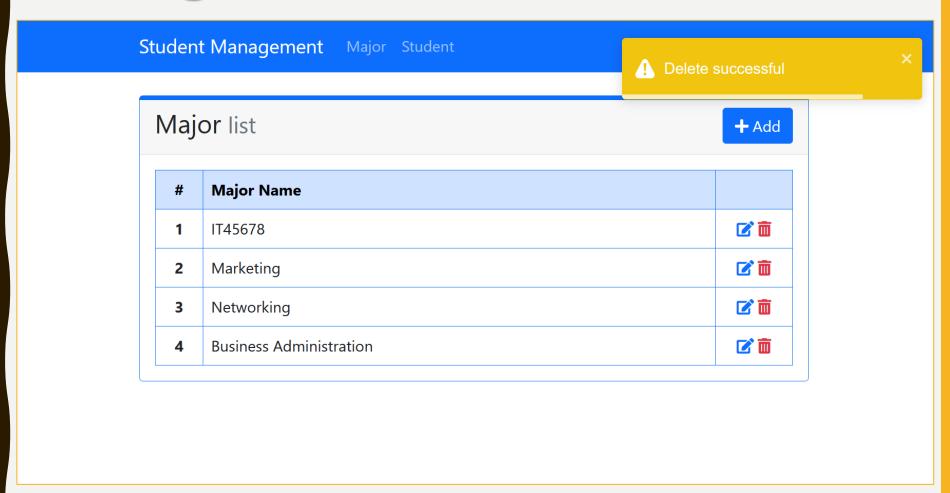
```
import { toast } from "react-toastify";
```

```
const handleDelete = (e: React.FormEvent<HTMLAnchorElement>, id: number) => {
    e.preventDefault();
    majorService.delete(id).then((res) => {
        if (res.errorCode === 0) {
            loadData();
            toast.warning("Delete successfully");
        } else {
            toast.error("Delete failed");
        }
    });
}
```

Modify handleSave function

```
const handleSave = () => {
  if (major.id === 0) {
    majorService.add(major).then((res) => {
      if (res.errorCode === 0) {
        loadData();
        handleCloseModal();
        toast.success("Add successfully");
      } else toast.error(res.message);
    });
  } else {
    majorService.update(major.id, major).then((res) => {
      if (res.errorCode === 0) {
        loadData();
        handleCloseModal();
        toast.success("Update successfully");
      } else toast.error(res.message);
    });
```

Testing Notification



Exercise

- Using "react-bootstrap" and "react-toastify" to improve delete function.
 - When user clicks on "delete" icon, show a modal dialog to confirm deletion.
 - When user confirms to delete, then call web API to delete selected row.
 - Show the notification after web API returns result.

Homework

Implement "instructor" function with Bootstrap modal

