

# 28 Routing

## Objectives

- Students will learn to create front end routes using [react-router-dom](#)
- Students will learn to restructure their applications into modules
- Students will learn the difference between view state and application state
- Students will learn to lift application state to better control one way data flow

# Importing React Router

- `react-router-dom` provides several components
- `BrowserRouter` wraps around your whole application
- `Route` defines what component should be shown for certain URLs
- `Link` substitutes `<a>` tags so clicking on a `<Link>` navigates users using `BrowserRouter`.

```
import {  
  BrowserRouter as Router,  
  Route,  
  Link  
} from 'react-router-dom'
```

# Using Router, Route and Link

- `Router` wraps around the entire app.
- Use the `Link` component to render links.
- Use the `exact` keyword to build `path="/"` for the homepage

```
<Router>
  <div>
    <nav>
      <h1>ToDo List</h1>
      <ul>
        <li><Link to="/">Home</Link></li>
        <li><Link to="/dashboard">Dashboard</Link></li>
      </ul>
    </nav>
    <div id="main-content">
      <Route exact path="/" component={Landing}/>
      <Route path="/dashboard" component={Dashboard}/>
    </div>
  </div>
</Router>
```