

```
1 [HOL] Vue Routing
2 -----
3 Lab. Vue Routing을 위한 Template page Test
4
5 <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
6 <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>
7 </head>
8 <body>
9   <div id="app"></div>
10   <script>
11     let router = new VueRouter({
12     })
13     new Vue({
14       el : '#app',
15       router : router
16     });
17   </script>
18 </body>
19
20 실행한 뒤 Vue 개발자 도구에서 확인할 것
21 -----
22 Lab. Vue Routing Concept
23 <!DOCTYPE html>
24 <html lang="en">
25 <head>
26   <meta charset="UTF-8">
27   <meta name="viewport" content="width=device-width, initial-scale=1.0">
28   <meta http-equiv="X-UA-Compatible" content="ie=edge">
29   <title>Hello, Vue.js</title>
30   <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
31   <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>
32 </head>
33 <body>
34   <div id="app">
35     <h1>Hello App</h1>
36     <p>
37       <router-link to="/vue">Go to Vue.js</router-link>
38       <router-link to="/react">Go to React.js</router-link>
39     </p>
40     <router-view></router-view>
41   </div>
42   <script>
43     const comp1 = {
44       template : '<div>Vue</div>'
45     }
46     const comp2 = {
47       template : '<div>React</div>'
48     }
49
50     let router = new VueRouter({
51       routes : [
52         { path : '/vue', component : comp1},
53         { path : '/react', component : comp2}
54       ]
55     })
```

```

56     let vm = new Vue({
57         el : '#app',
58         router : router
59     })
60 </script>
61 </body>
62 </html>
63 -----
64 <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
65 <script src="https://unpkg.com/vue-router/dist/vue-router.js"></script>
66 </head>
67 <body>
68     <div id="app">
69         <router-view></router-view>
70     </div>
71
72     <script>
73         let LoginComponent = {
74             template : '<div>login</div>'
75         }
76         let MainComponent = {
77             template : '<div>main</div>'
78         }
79     </script>
80     <script>
81         let router = new VueRouter({
82             routes : [
83                 {
84                     path : '/login',
85                     component : LoginComponent
86                 },
87                 {
88                     path : '/main',
89                     component : MainComponent
90                 }
91             ]
92         })
93
94         new Vue({
95             el : '#app',
96             router : router
97         })
98     </script>
99 실행 후 Vue 개발자 도구에서 직접 /login, /main을 입력해서 확인할 것
100 -----
101 Lab. 간단한 Vue Routing
102 <!DOCTYPE html>
103 <html lang="en">
104 <head>
105     <meta charset="UTF-8">
106     <meta name="viewport" content="width=device-width, initial-scale=1.0">
107     <meta http-equiv="X-UA-Compatible" content="ie=edge">
108     <title>Hello, Vue.js</title>
109     <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
110     <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>

```

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111 </head>
112 <body>
113   <div id="app">
114     <router-link to="/top">최상위 페이지</router-link>
115     <router-link to="/users">사용자 목록 페이지</router-link>
116     <router-view></router-view>
117   </div>
118   <script>
119     let router = new VueRouter({
120       routes : [
121         {
122           path : '/top',
123           component : {
124             template : '<div style="color:red">최상위 페이지</div>'
125           }
126         },
127         {
128           path : '/users',
129           component : {
130             template : '<div style="color:blue">사용자 목록 페이지</div>'
131           }
132         },
133       ]
134     })
135     let app = new Vue({
136       router : router
137     }).$mount('#app')
138   </script>
139 </body>
140 </html>

```

```

141 -----
142 Lab. @Vue/cli로 Vue Routing 하기
143 1. Project 생성
144   1)$ vue create routingfirst
145   2)아래 메뉴에서 [Manually select features] 선택
146     Vue CLI v4.1.1
147     ? Please pick a preset: (Use arrow keys)
148     > default (babel, eslint)
149     Manually select features
150
151   3)화면에서 Router 선택
152     Vue CLI v4.1.1
153     ? Please pick a preset: Manually select features
154     ? Check the features needed for your project:
155     (*) Babel
156     ( ) TypeScript
157     ( ) Progressive Web App (PWA) Support
158     >(*) Router
159     ( ) Vuex
160     ( ) CSS Pre-processors
161     (*) Linter / Formatter
162     ( ) Unit Testing
163     ( ) E2E Testing
164
165   4)나머지는 기본으로 선택

```

```
166 5)src/router/index.js 파일 생성 확인
167 -Vue CLI 3.5에서는 src/main.js 아래에 새롭게 router.js가 있었다.
168 -즉 router.js가 router/index.js로 변경되었다.
169 -일반 Project 생성시에는 router/index.js 또는 src/router.js가 생성되지 않는다.
170
171 2. src/main.js
172 -아래와 같이 router를 사용할 수 있게 자동으로 코딩되어 있다.
173 import Vue from 'vue'
174 import App from './App.vue'
175 import router from './router'
176
177 Vue.config.productionTip = false
178
179 new Vue({
180   router,
181   render: h => h(App)
182 }).$mount('#app')
183
184 3. src/router/index.js 또는 src/router.js
185 import Vue from 'vue'
186 import VueRouter from 'vue-router'
187 import Home from '../views/Home.vue'
188
189 Vue.use(VueRouter)
190
191 const routes = [
192   {
193     path: '/',
194     name: 'home',
195     component: Home
196   },
197   {
198     path: '/about',
199     name: 'about',
200     // route level code-splitting
201     // this generates a separate chunk (about.[hash].js) for this route
202     // which is lazy-loaded when the route is visited.
203     component: () => import(/* webpackChunkName: "about" */ '../views/About.vue')
204   }
205 ]
206
207 const router = new VueRouter({
208   mode: 'history',
209   base: process.env.BASE_URL, <--base속성은 기본 URL을 설정하는 속성
210                                <--process.env.BASE_URL은 기본값으로 '/'를 나타냄.
211   routes <--path, name 그리고 component 속성으로 구성된 Collection 형태로 Router가
        맞는 Component를 rendering 한다.
212                                <--즉 위의 const routes를 가리킴.
213 })
214
215 export default router
216
217 4. Project 생성시 Router를 선택하면 components 폴더외에 views 폴더가 생성된다.
218 -router.js 또는 router/index.js에 기본적으로 생성되는 Home.vue와 About.vue의 위치는 모두
    views 폴더에 있다.
```

```
219
220 5. 실행해보면 페이지 상위에 Home | About 링크가 있고 각각 클릭해보면 해당 Component로 이동한다.
221
222 6. 404 Not Found 페이지 만들기
223 1)router/index.js 수정
224   -routes 속성에 아래 코드 추가
225     },
226     {
227       path: '*',
228       name: 'NotFound',
229       component: NotFound
230     }
231   -import 추가
232     import NotFound from '../views/NotFound.vue'
233
234 2)src/views/NotFound.vue
235   <template>
236     <div>
237       <h1>404 Not Found</h1>
238     </div>
239   </template>
240
241 3)URL에 아래 주소 입력
242   http://localhost:8080/books
243   -그러면 방금 생성한 NotFound가 나타난다.
244
245 7. 만일 404 Not Found와 같은 페이지를 표시하지 않으려면 redirect를 이용한다.
246 1)router/index.js의 routes 속성을 아래와 같이 수정한다.
247   {
248     path: '*',
249     redirect: '/'
250   }
251   //import NotFound from '../views/NotFound.vue'
252 2)http://localhost:8080/books
253   -즉, routes 속성에 정의된 '/', '/about'을 제외한 다른 경로들은 모두 '/'로 매칭한다.
254
255 8. router/index.js 수정
256   import Vue from 'vue'
257   import VueRouter from 'vue-router'
258   import Home from '@views/Home.vue'
259   import Product from '@views/Product.vue'
260
261   Vue.use(VueRouter)
262
263   const routes = [
264     {
265       path: '/',
266       component: Home
267     },
268     {
269       path: '/product',
270       component: Product
271     }
272   ]
273
```

```
274   const router = new VueRouter({
275     mode: 'history',
276     base: process.env.BASE_URL,
277     routes
278   })
279
280   export default router
281
282 9. views/Home.vue
283   <template>
284     <div class="home">
285       <h1>Home</h1>
286     </div>
287   </template>
288
289 10. views/Product.vue
290   <template>
291     <div class='product'>
292       <h1>상품정보</h1>
293     </div>
294   </template>
295
296 11. App.vue
297   <template>
298     <div id="app">
299       <div id="nav">
300         <router-link to="/">Home</router-link> |
301         <router-link to="/product">상품 정보</router-link>
302       </div>
303       <router-view/>
304     </div>
305   </template>
```

306 -----

307 Lab. Named Routing

308 -Vue.js Demo/Vue Route/namedrouting/ContactList.js

309 1. Project 생성

- 310 1)\$ vue create namedrouting
- 311 2)[Manually select features] 선택
- 312 3)[Router] 선택
- 313 4)나머지는 기본으로 선택

314

315 2. src/main.js

```
316   import Vue from 'vue'
317   import App from './App.vue'
318   import router from './router'
319
320   Vue.config.productionTip = false
321
322   new Vue({
323     router,
324     render: h => h(App)
325   }).$mount('#app')
```

326

327 3. src/ContactList.js

```
328   let contactlist = {
```

```

329     contacts: [
330       { no: 1001, name: '김유신', tel: '010-1212-3331', address: '경주' },
331       { no: 1002, name: '장보고', tel: '010-1212-3332', address: '청해진' },
332       { no: 1003, name: '관창', tel: '010-1212-3333', address: '황산벌' },
333       { no: 1004, name: '안중근', tel: '010-1212-3334', address: '해주' },
334       { no: 1005, name: '강감찬', tel: '010-1212-3335', address: '귀주' },
335       { no: 1006, name: '정몽주', tel: '010-1212-3336', address: '개성' },
336       { no: 1007, name: '이순신', tel: '010-1212-3337', address: '통제영' },
337       { no: 1008, name: '김시민', tel: '010-1212-3338', address: '진주' },
338       { no: 1009, name: '정약용', tel: '010-1212-3339', address: '남양주' }
339     ]
340   }
341   export default contactlist;
342
343 4. src/views/Home.vue
344   <template>
345     <div>
346       <h1>Home</h1>
347     </div>
348   </template>
349   <script>
350     export default {
351       name : "home"
352     }
353   </script>
354
355 5. src/views/About.vue
356   <template>
357     <div>
358       <h1>About</h1>
359     </div>
360   </template>
361   <script>
362     export default {
363       name : "about"
364     }
365   </script>
366
367 6. src/views/ContactByNo.vue
368   <template>
369     <div>
370       <hr class="divider" />
371       <table class="detail table table-bordered">
372         <tbody>
373           <tr class="active">
374             <td>일련번호</td>
375             <td>{{contact.no}}</td>
376           </tr>
377           <tr class="active">
378             <td>이름</td>
379             <td>{{contact.name}}</td>
380           </tr>
381           <tr class="active">
382             <td>전화</td>
383             <td>{{contact.tel}}</td>

```

```

384         </tr>
385         <tr class="active">
386             <td>주소</td>
387             <td>{{contact.address}}</td>
388         </tr>
389     </tbody>
390 </table>
391 </div>
392 </template>
393
394 <script>
395 import contactlist from '../ContactList';
396 export default {
397     name : 'contactbyno',
398     data : function() {
399         return {
400             no : 0,
401             contacts : contactlist.contacts
402         }
403     },
404     created : function() {
405         this.no = this.$route.params.no;
406     },
407     watch : {
408         '$route' : function(to, from) {
409             this.no = to.params.no;
410         }
411     },
412     computed : {
413         contact : function() {
414             var no = this.no;
415             var arr = this.contacts.filter(function(item, index) {
416                 return item.no == no;
417             });
418             if (arr.length == 1) return arr[0];
419             else return {};
420         }
421     }
422 }
423 </script>
424
425 <style>
426 .divider { height: 3px; margin-left: auto; margin-right: auto;
427     background-color: #FF0066; color: #FF0066; border: 0 none; }
428 table.detail { width: 400px; }
429 </style>
430
431 7. src/views/Contacts.vue
432 <template>
433     <div>
434         <h1>연락처</h1>
435         <div class="wrapper">
436             <div class="box" v-for="c in contacts" :key="c.no">
437                 <!--<router-link
438                     v-bind:to="'/contacts/'+c.no">{{c.name}}</router-link-->

```



```

438         <router-link v-bind:to="{ name:'contactbyno', params:{ no:c.no }}">
439             {{c.name}}
440         </router-link>
441     </div>
442 </div>
443 <router-view></router-view>
444 </div>
445 </template>
446 <script>
447 import contactlist from '../ContactList';
448 export default {
449     name : "contacts",
450     data : function() {
451         return {
452             contacts : contactlist.contacts
453         }
454     }
455 }
456 </script>
457 <style>
458 .wrapper { background-color:#fff; clear:both; display:table; }
459 .box { float:left; background-color:aqua; border-radius:5px;
460     padding: 10px; margin:3px; text-align:center; font-size:120%;
461     width:100px; font-weight:bold; }
462 a:link, a:visited { text-align:center; text-decoration:none;
463     display:inline-block; }
464 </style>
465
466 8. src/router/index.js
467 import Vue from 'vue'
468 import VueRouter from 'vue-router'
469 import Home from '../views/Home.vue'
470 import About from '../views/About.vue'
471 import Contacts from '../views/Contacts.vue'
472 import ContactByNo from '../views/ContactByNo.vue'
473
474 Vue.use(VueRouter)
475
476 const routes = [
477     { path: "/", component: Home },
478     { path: "/home", name: "home", component: Home },
479     { path: "/about", name: "about", component: About },
480     {
481         path: "/contacts",
482         name: "contacts",
483         component: Contacts,
484         children: [{ path: ":no", name: "contactbyno", component: ContactByNo }]
485     }
486 ];
487
488 const router = new VueRouter({
489     //mode: 'history',
490     base: process.env.BASE_URL,
491     routes
492 })

```

```

493
494   export default router
495
496 9. App.vue
497   <template>
498     <div>
499       <div class="header">
500         <h1 class="headerText">(주) OpenSG</h1>
501         <nav>
502           <ul>
503             <li>
504               <router-link v-bind:to="{ name:'home' }">Home</router-link>
505             </li>
506             <li>
507               <router-link v-bind:to="{ name:'about' }">About</router-link>
508             </li>
509             <li>
510               <router-link v-bind:to="{ name:'contacts' }">Contacts</router-link>
511             </li>
512           </ul>
513         </nav>
514       </div>
515       <div class="container">
516         <router-view></router-view>
517       </div>
518     </div>
519   </template>
520
521   <style>
522   @import url("https://cdn.bootcss.com/bootstrap/3.3.5/css/bootstrap.css");
523   .header { background-color:aqua; padding: 10px 0px 0px 0px; }
524   .headerText { padding: 0px 20px 0px 20px; }
525   ul { list-style-type: none; margin: 0; padding: 0;
526     overflow: hidden; background-color: purple; }
527   li { float: left; }
528   li a { display: block; color: yellow; text-align: center;
529     padding: 14px 16px; text-decoration: none; }
530   li a:hover { background-color: aqua; color:black; }
531   </style>
532   -----
533 Lab : 요청 매개변수와 Pattern Matching
534   <!DOCTYPE html>
535   <html lang="en">
536   <head>
537     <meta charset="UTF-8">
538     <meta name="viewport" content="width=device-width, initial-scale=1.0">
539     <meta http-equiv="X-UA-Compatible" content="ie=edge">
540     <title>Hello, Vue.js</title>
541     <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
542     <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>
543   </head>
544   <body>
545     <div id="app">
546       <router-link to="/user/jimin">사용자 목록 페이지</router-link>
547       <router-view></router-view>

```

```

548     </div>
549     <script>
550       let router = new VueRouter({
551         routes : [
552           {
553             path : '/user/:userid',
554             component : {
555               template : '<div>사용자 ID는 {{ this.$route.params.userid }} 입니
                    다.</div>'
556             }
557           }
558         ]
559       })
560       let vm = new Vue({
561         el : '#app',
562         router : router
563       })
564     </script>
565   </body>
566 </html>

```

567 -----

568 Lab. 동적 Routing

```

569 <!DOCTYPE html>
570 <html lang="en">
571 <head>
572   <meta charset="UTF-8">
573   <meta name="viewport" content="width=device-width, initial-scale=1.0">
574   <meta http-equiv="X-UA-Compatible" content="ie=edge">
575   <title>Hello, Vue.js</title>
576   <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
577   <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>
578 </head>
579 <body>
580   <div id="app">
581     <h1>Vue.js Books</h1>
582     <ul>
583       <li v-for="entry in article" :key="entry.no">
584         <router-link :to="'/board/'+ entry.no">
585           Go to {{ entry.title }}
586         </router-link>
587       </li>
588     </ul>
589     <router-view></router-view>
590   </div>
591   <script>
592     const comp = {
593       template : '<div>Vue {{ no }} </div>',
594       computed : {
595         no : function(){
596           return this.$route.params.no;
597         }
598       }
599     }
600     const router = new VueRouter({
601       routes : [

```

```

602     {path : '/board/:no', component : comp}
603   ]
604 })
605 let vm = new Vue({
606   el : '#app',
607   router :router,
608   data : {
609     article : [
610       { no: 1, title : 'Vue.js 첫 걸음'},
611       { no: 2, title : 'Vue.js 입문'},
612       { no: 3, title : '고양이도 할 수 있는 Vue.js'}
613     ]
614   }
615 })
616 </script>
617 </body>
618 </html>

```

620 Lab. Nested Routing

621 1. Project 생성

- 622 1)\$ vue create nestedroute
- 623 2)[Manually select features] 선택
- 624 3)[Router] 선택
- 625 4)나머지는 기본으로 선택

626

627 2. src/router/index.js

```

628 import Vue from 'vue'
629 import VueRouter from 'vue-router'
630 import Home from '../views/Home.vue'
631 import Admin from '../views/Admin.vue'
632 import NotFound from '../views/NotFound.vue'
633
634 Vue.use(VueRouter)
635
636 const routes = [
637   {
638     path: '/',
639     name: 'home',
640     component: Home
641   },
642   {
643     path: '/admin',
644     name: 'admin',
645     component : Admin
646   },
647   {
648     path: '*',
649     name: 'notfound',
650     component : NotFound
651   }
652 ]
653
654 const router = new VueRouter({
655   mode: 'history',
656   base: process.env.BASE_URL,

```

```
657     routes
658   })
659
660   export default router
661
662 3. src/views/Home.vue
663   <template>
664     <div>
665       <h3> {{ title }} </h3>
666     </div>
667   </template>
668
669   <script>
670   export default {
671     data(){
672       return {
673         title : 'Home 페이지'
674       }
675     }
676   }
677   </script>
678
679 4. views/Admin.vue
680   <template>
681     <div>
682       <h3> {{ title }} </h3>
683     </div>
684   </template>
685
686   <script>
687   export default {
688     data(){
689       return {
690         title : 'Admin 페이지'
691       }
692     }
693   }
694   </script>
695
696 5. views/NotFound.vue
697   <template>
698     <div>
699       <h3> {{ title }} </h3>
700     </div>
701   </template>
702
703   <script>
704   export default {
705     data(){
706       return {
707         title : 'Not Found 페이지'
708       }
709     }
710   }
711   </script>
```

```
712
713 6. App.vue
714   <template>
715     <div id="app">
716       <nav class="teal">
717         <router-link to="/">Home</router-link> |
718         <router-link to="admin">Admin</router-link>
719       </nav>
720       <router-view/>
721     </div>
722   </template>
723
724   <style>
725     nav{
726       text-align:right;padding-right:20px;
727     }
728     nav a{
729       font-weight:bold; color:white;
730     }
731   </style>
732
733 7. public/index.html
734   -https://materializecss.com/getting-started.html
735   <!-- Compiled and minified CSS -->
736   <link rel="stylesheet"
737     href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.css"
738   >
739   <title>nestedroute</title>
740
741 8. http://localhost:8080/
742   -Home을 선택하면 Home 페이지가, Admin을 클릭하면 admin 페이지가 나타나는 것 확인
743   -localhost:8080/books NotFound 페이지 연결도 확인
744
745 9. 지금부터 중첩 Route를 설정한다.
746   -설정하려면 children option을 이용한다.
747
748 10. router/index.js 수정
749   import Admin from '../views/admin/Admin.vue'
750   import ProductList from '../views/admin/ProductList.vue'
751   import ProductInsert from '../views/admin/ProductInsert.vue'
752   import ProductEdit from '../views/admin/ProductEdit.vue'
753   import NotFound from '../views/NotFound.vue'
754   ...
755   {
756     path: '/admin',
757     name: 'admin',
758     component : Admin,
759     children : [
760       { path : 'list', name:'productlist', component : ProductList},
761       { path : 'insert', name:'productinsert', component : ProductInsert},
762       { path : 'edit/:id', name:'productedit', component : ProductEdit}
763     ]
764   },
765
766 11. views/admin folder 생성후, Admin.vue를 이동후 수정
```

```

765 <template>
766   <div>
767     <h3> {{ title }} </h3>
768     <ul class='white'>
769       <li><router-link to="/admin/list">제품 리스트(Product List)</router-link></li>
770       <li><router-link to="/admin/insert">제품 추가(New Product)</router-link></li>
771     </ul>
772     <router-view></router-view> <!-- children route -->
773   </div>
774 </template>
775
776 <script>
777 export default {
778   data(){
779     return {
780       title : 'Admin 페이지'
781     }
782   }
783 }
784 </script>
785 <style scoped>
786 li {
787   display: inline-block; padding:5px;
788 }
789 li a {
790   font-weight: bold; color:black;
791 }
792 </style>
793
794 12. views/admin/ProductList.vue
795 <template>
796   <div>
797     <table>
798       <thead>
799         <tr>
800           <th>제품코드</th><th>제품명</th><th>가격</th><th>설명</th>
801         </tr>
802       </thead>
803       <tbody>
804         <tr v-for="product in products" :key="product.pcode"
805           v-on:click="sendCode(product.pcode)">
806           <td>{{product.pcode}}</td>
807           <td>{{product.pname}}</td>
808           <td>{{product.price}}</td>
809           <td>{{product.description}}</td>
810         </tr>
811       </tbody>
812     </table>
813   </div>
814 </template>
815 <script>
816 export default {
817   data(){
818     return {
819       products:[

```

```

820         {pcode:'p01', pname:'LG gram Notebook',
821         description:'OS:Windows 10 Home, CPU:Intel Core i7, RAM:DDR4 8GB',
822         price:1745160},
823         {pcode:'p02', pname:'페레가모 선글라스',
824         description:'병행수입제품', price:139400},
825         {pcode:'p03', pname:'단골언니 신발',
826         description:'저렴한 가격의 신발', price:12800},
827     ]
828     },
829 },
830 methods : {
831     sendCode(inCode){
832         const id = inCode;
833         this.$router.push({name:'productedit', params:{id}});
834     }
835 }
836 }
837 </script>
838
839 13. ProductInsert.vue
840 <template>
841     <div>
842         <h3> {{ title }} </h3>
843     </div>
844 </template>
845
846 <script>
847 export default {
848     data(){
849         return {
850             title : 'Product Insert 페이지'
851         }
852     }
853 }
854 </script>
855
856 14. ProductEdit.vue
857 <template>
858     <div>
859         <h3>URL : admin/edit/{{ $route.params.id }}</h3>
860     </div>
861 </template>
862 -----
863 Lab. Named View
864 1. VSCode에 namedviews folder 생성
865 2. index.html
866 <!DOCTYPE html>
867 <html lang="en">
868 <head>
869     <meta charset="UTF-8">
870     <meta name="viewport" content="width=device-width, initial-scale=1.0">
871     <meta http-equiv="X-UA-Compatible" content="ie=edge">
872     <title>Named View Demo</title>
873     <link rel="stylesheet"
      href="https://cdnjs.cloudflare.com/ajax/libs/materialize/1.0.0/css/materialize.min.

```



```

874     css">
875     <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
876     <script src="https://unpkg.com/vue-router@3.1.3/dist/vue-router.js"></script>
877     <style>
878       nav { text-align:right; padding-right:20px;}
879       nav a {font-weight:bold; color:white;}
880       li { display:inline-block; padding:5px;}
881       li a { font-weight:bold;color:black;}
882     </style>
883   </head>
884   <body>
885     <div id="app">
886       <nav class="teal">
887         <router-link to="/">Home</router-link> |
888         <router-link to="/admin">Admin</router-link>
889       </nav>
890       <router-view></router-view>
891       <router-view name="first"></router-view>
892       <router-view name="second"></router-view>
893     </div>
894     <script src="js/router.js"></script>
895     <script src="js/app.js"></script>
896   </body>
897 </html>

```

```

898 2. js/router.js
899 let Home = {
900   template : '<div><h3>Home</h3></div>'
901 }
902 let Admin = {
903   template : `
904     <div>
905       <h3>Admin</h3>
906       <ul class="white">
907         <li><router-link to="/admin">제품 리스트</router-link> | </li>
908         <li><router-link to="/admin/details">제품 상세 정보</router-link></li>
909       </ul>
910     </div>
911   `,
912 }
913 let Pro_List = {
914   template : '<div>product_list</div>'
915 }
916 let Pro_Details = {
917   template : '<div>product_details</div>'
918 }
919
920 const router = new VueRouter({
921   mode : 'history',
922   routes : [
923     {path : '/', name:'home', component:Home},
924     {path : '/admin', components : {
925       default:Admin,
926       first : Pro_List,
927       second : Pro_Details

```

```

928     }},
929     {path: '/admin/details', components : {
930         default : Admin,
931         first : Pro_Details,
932         second : Pro_List
933     }}
934 ]
935 })
936
937 3. js/app.js
938 new Vue({
939     router : router,
940     el : '#app'
941 })
942 -----
943 Lab : Programmatic Navigation
944 1. 앞에서 진행했던 namedrouting project를 open 한다.
945 2. src/views/Contacts.vue 파일을 수정한다.
946 <template>
947     <div>
948         <h1>연락처</h1>
949         <div class="wrapper">
950             <div class="box" v-for="c in contacts" :key="c.no">
951                 <span @click="navigate(c.no)" style="cursor:pointer">
952                     [ {{ c.name }}]
953                 </span>
954             </div>
955         </div>
956     </router-view></router-view>
957 </div>
958 </template>
959 <script>
960 import contactlist from './ContactList';
961 export default {
962     name : "contacts",
963     data : function() {
964         return {
965             contacts : contactlist.contacts
966         }
967     },
968     methods : {
969         navigate(no){
970             if (confirm("상세 정보를 보시겠습니까 ?")){
971                 this.$router.push( { name : 'contactbyno', params : { no : no }}, function(){
972                     console.log('/contacts/' + no + '로 이동 완료!')
973                 })
974             }
975         }
976     }
977 }
978 </script>
979 -----
980 Lab. Vue HTTP 통신 - Vue Resource
981 <!DOCTYPE html>
982 <html lang="en">

```

```

983 <head>
984   <meta charset="UTF-8">
985   <meta name="viewport" content="width=device-width, initial-scale=1.0">
986   <meta http-equiv="X-UA-Compatible" content="ie=edge">
987   <title>Hello, Vue.js</title>
988   <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
989   <script src="https://cdn.jsdelivr.net/npm/vue-resource@1.5.1"></script>
990 </head>
991 <body>
992   <div id="app">
993     <button v-on:click="getdata">Get User</button>
994   </div>
995   <script>
996     let vm = new Vue({
997       methods : {
998         getdata : function(){
999           this.$http.get('https://jsonplaceholder.typicode.com/users')
1000             .then(function(response){
1001               console.log(response);
1002               //console.log(JSON.parse(response.data));
1003             })
1004             .catch(function(error){
1005               console.log(error);
1006             });
1007       }
1008     })
1009     vm.$mount('#app')
1010   </script>
1011 </body>
1012 </html>

```

```

1013 -----
1014 Lab. Vue HTTP 통신 - axios
1015 <!DOCTYPE html>
1016 <html lang="en">
1017 <head>
1018   <meta charset="UTF-8">
1019   <meta name="viewport" content="width=device-width, initial-scale=1.0">
1020   <meta http-equiv="X-UA-Compatible" content="ie=edge">
1021   <title>Hello, Vue.js</title>
1022   <script src="https://unpkg.com/vue@2.6.10/dist/vue.js"></script>
1023   <script src="https://unpkg.com/axios/dist/axios.min.js"></script>
1024 </head>
1025 <body>
1026   <div id="app">
1027     <button v-on:click="getdata">Get User</button>
1028   </div>
1029   <script>
1030     let vm = new Vue({
1031       methods : {
1032         getdata : function(){
1033           axios.get('https://jsonplaceholder.typicode.com/users')
1034             .then(function(response){
1035               console.log(response);
1036             })
1037             .catch(function(error){

```

```
1038         console.log(error);
1039     });
1040 }
1041 }
1042 }).$mount('#app')
1043 </script>
1044 </body>
1045 </html>
```