Navigating Through Components



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Previous Module



Designed Angular components

- List all the books
- Visualize and delete an existing book
- Create a new book

Angular CLI

HTML and Twitter Bootstrap

Aggregated into a single component



Overview



Understand navigation

Router

Navigate though components

Execute an action and then navigate

Pass parameters when navigating



What Is Navigation?

The browser is a familiar model of navigation

Angular router

Interprets a browser URL

Navigates to a component



book-list works!

book-detail works!

book-form works!

book-list.component

book-detail.component

book-form.component

Aggregating Components



book-list works!

book-list.component

BookStore List Create

book-detail works!

book-detail.component

book-form works!

book-form.component

Navigating Through Components



Navigating Through Components



Specifying Routes

```
const routes: Routes =
                      component: BookListComponent},
  {path:
  {path: ('book-list'
                     component: BookListComponent},
  {path: (book-torm),
                      component: BookFormComponent}
@NgModule({
    imports: [RouterModule.forRoot(routes)],
    exports: [RouterModule]
export class AppRoutingModule { }
```

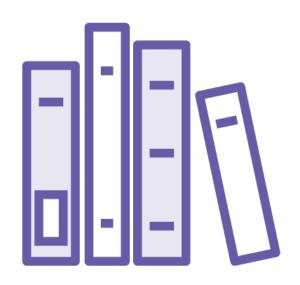


Applying Routes

```
<nav class="navbar">
 <div class="collapse">
   <u1>
     class="nav-item">
       <a [routerLink]="['/book-list']">List</a>
     class="nav-item">
       <a [routerLink]="['/book-form']">Create</a>
     </div>
</nav>
```



The BookStore Navigation



Simple navigation

Navigation with parameters

Navigation with actions



List all the books - 3



Beginning Java EE 7

Java enterprise edition (java ee) continues to be one of the leading java technologies and platforms. Beginning java ee 7 is the first tutorial book on java ee 7. Step by step and easy to follow, this book describes many of the java ee 7 specifications and reference implementations and shows them in action using practical examples. This definitive book also uses the newest version of glassfish to deploy and administer the code examples. Java ee 7 environment context and dependency injection bean validation java persistence api object-relational mapping managing persistent o...



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Create a new book

Title Beginning Java EE 7 Description Java enterprise edition (Java EE) continues to be one of the leading java technologies and platforms. Beginning Java EE 7 is the first tutorial book on Java EE 7. Step by step and easy to follow, this book describes many of the Java EE 7 specifications and reference implementations and shows them in action using practical examples. This definitive book also uses the newest version of Glassfish to deploy and administer the code examples. Java EE 7 environment context and dependency injection bean validation java persistence api object-relational mapping managing persistent object enterprise java beans callbacks, timer service and authorization interceptors and transactions JavaServer Faces processing and navigation xml and JSon messaging soap web services restful web service table of contents: introduction to the EJB 3 architecture session beans entities and the java persistence api advanced persistence features message-driven beans EJB and web services integrating session beans, entities, message-driven beans and web services transaction management EJB performance and testing context and dependency injection (cdi) packaging and deployment EJB client applications EJB runtime environments Unit cost 9.99 \$ Number of pages 345 Image URL **ENGLISH** Language Create Cancel

```
<a [routerLink]="['/book-list']">
   {{title}}
</a>
<u1>
 <1i>>
   <a [routerLink]="['/book-list']">
      list
   </a>
 <1i>>
   <a [routerLink]="['/book-form']">
      Create
   </a>
```

```
const routes: Routes = |
  {path: 'book-list',
   component: BookListComponent},
  {path: 'book-form',
   component: BookFormComponent}
@NgModule({
  imports:
    [RouterModule.forRoot(routes)],
  exports: [RouterModule]
export class AppRoutingModule { }
```



List all the books - 3



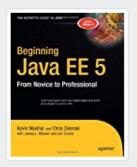
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Detail of a book

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Unit cost

9,99

\$

ISBN

8132214080

Number of pages

29

Language

ENGLISH

Delete

Back

```
<h2>List all the books {{nbBooks}}</h2>
<u1>
 *ngFor="let book of books">
   <img src="{{book.imageURL}}">
   <a [routerLink]="['/book-detail',
                      book.id]">
     {{book.title}}
   </a>
   {{book.description}}
```

```
const routes: Routes = [
    {path: 'book-detail/:bookId',
        component: BookDetailComponent}
];

@NgModule({
    imports:
        [RouterModule.forRoot(routes)],
        exports: [RouterModule]
})
export class AppRoutingModule { }
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Back

```
import { Router } from
                   '@angular/router';
@Component({
    selector: 'bs-book-detail',
    templateUrl:
          './book-detail.component.html'
})
export class BookDetailComponent {
  constructor(private router: Router) {
  delete() {
   // Invoke HTTP DELETE
   this.router.navigate(['/book-list']);
```

book-detail.component.html





Demo



Navigation through components

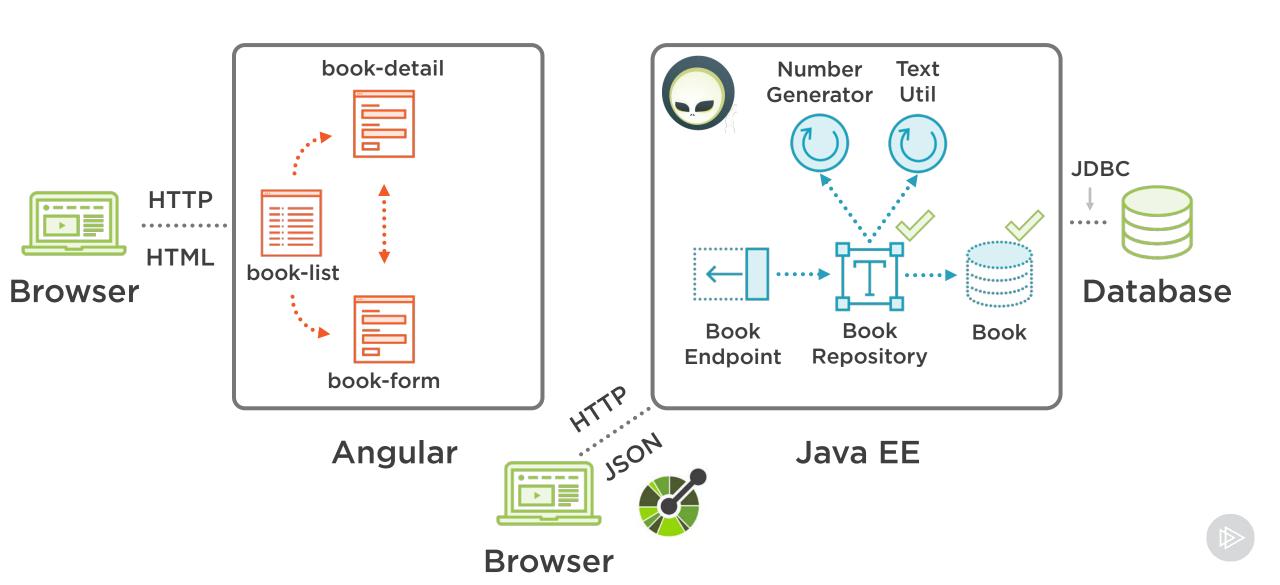
No Angular CLI

routerLink in Templates

Router API in TypeScript



Anatomy of the BookStore Application



Summary



Navigation

Router

Simple navigation

Navigation with parameters

Navigation with actions



Next Module



Invoke Java EE back-end

Swagger contract

Documents BookEndpoint

Swagger CodeGen

Generate a TypeScript class and service

Angular HTTP

