

Medications

#	Generic Name:	Brand Name:	Main purpose:
1	Levothyroxine	Synthroid	Thyroid
2	Albuterol	Ventolin	Asthma
3	Metformin	Glucophage	Diabetes
4	Amlodipine	Norvasc	Blood Pressure

ID:

5

Generic Name:

Azithromycin

Brand Name:

Zithromax

Main Purpose:

Antibiotic

Add medication

Home

Vinhuanc/Medications

localhost:8080/home

New folderUMNPersonalCollege

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1	Levothyroxine	Synthroid	Thyroid
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4	Amlodipine	Norvasc	Blood Pressure
5	Azithromycin	Zithromax	Antibiotic
6	Prednisone	Deltasone	Inflammation
7	Ibuprofen	Advil	Pain
8	Hydrocodone/Acetamiophen	Norco	Pain
9	Gabapentin	Neurontin	Seizures
10	Omeprazole	Prilosec	Stomach Acid

ID:

Generic Name:

Brand Name:

Main Purpose:

Add medication

```
ToDoListApplication - main
com.project.ToDoListApplication
application.properties
spring.h2.console.enabled=true

1 package com.project.ToDoList;
2 import org.springframework.boot.SpringApplication;
3 import org.springframework.boot.autoconfigure.SpringBootApplication;
4 import java.text.ParseException;
5 @SpringBootApplication
6 public class ToDoListApplication {
7     no usages new *
8     public ToDoListApplication() throws ParseException {}
9     public static void main(String[] args) {
10         SpringApplication.run(ToDoListApplication.class, args);
11     }
12 }
13

data.sql
1 insert into Medication values (1,'Levothyroxine', 'Synthroid', 'Thyroid');
2 insert into Medication values (2,'Albuterol', 'Ventolin', 'Asthma');
3 insert into Medication values (3,'Metformin', 'Glucophage', 'Diabetes');

schema.sql
1 create table Medication(
2     id int primary key auto_increment,
3     genericName varchar,
4     brandName varchar,
5     mainPurpose varchar
6 );
7
8
```

```
schema.sql x home.html x
File of a custom type .ml>
1 <html lang="en" xmlns:th="http://www.w3.org/1999/xhtml">
2 <head>
3     <meta charset="UTF-8">
4     <title>Home</title>
5     <link href="https://cdn.jsdelivr.net/npm/bootstrap@5.3.0/dist/css/bootstrap.min.css" rel="stylesheet" integrity="sha384-9ndCyUaIbzAi2FUVXJ10CjmcCapS007SnpJef0486qLnuZ2cdeRh002iuk6FUVUW"
6     <style>
7         .content{
8             max-width:800px;
9             margin:auto;
10             margin-top:50px;
11         }
12         .header{
13             margin:auto;
14             margin-left:50%;
15             margin-bottom:50px;
16             font-family: cursive, verdana;
17             font-size:50px;
18         }
19     </style>
20 </head>
21 <body>
22
23
24
25
26 <div class="content">
27     <h2 class="header">Medications</h2>
28     <table class="table">
29         <thead>
30             <tr>
31                 <th scope="col">#</th>
32                 <th scope="col">Generic Name:</th>
33                 <th scope="col">Brand Name:</th>
34                 <th scope="col">Main purpose:</th>
35             </tr>
36         </thead>
37         <tbody>
38             <tr th:each="medication, iterator : ${medications}">
39                 <th scope="row" th:text="${iterator.index} + 1"></th>
40                 <td th:text="${medication.genericName}"></td>
41                 <td th:text="${medication.brandName}"></td>
42                 <td th:text="${medication.mainPurpose}"></td>
43             </tr>
44         </tbody>
45     </table>
46 </div>
47
```

```

64 <td th:text="${medication.brandName}"></td>
65 <td th:text="${medication.mainPurpose}"></td>
66 </tr>
67 </tbody>
68 </table>
69 <form class="content" th:object="${medication}" th:action="@{/home}" th:method="POST">
70 <div class="mb-3">
71 <label for="newID" class="form-label">ID:</label>
72 <input th:field="*{id}" type="input" name="id" class="form-control" id="newid" aria-describedby="emailHelp">
73 </div>
74 <div class="mb-3">
75 <label for="newGeneric" class="form-label">Generic Name:</label>
76 <input th:field="*{genericName}" type="input" name="genericName" class="form-control" id="newGeneric" aria-describedby="emailHelp">
77 </div>
78 <div class="mb-3">
79 <label for="newBrand" class="form-label">Brand Name:</label>
80 <input th:field="*{brandName}" type="input" name="brandName" class="form-control" id="newBrand">
81 </div>
82 <div class="mb-3">
83 <label for="newPurpose" class="form-label">Main Purpose:</label>
84 <input th:field="*{mainPurpose}" type="input" name="mainPurpose" class="form-control" id="newPurpose">
85 </div>
86 <button type="submit" class="btn btn-primary">Add medication</button>
87 </form>
88 </div>
89 </body>
90 </html>

```

## Medications

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ID:

Generic Name:

Brand Name:

Main Purpose:

Add medication

```
Medication.java
1 package com.project.ToDoList.Model;
2
3 import java.text.ParseException;
4 import java.text.SimpleDateFormat;
5 import java.util.Date;
6
7 12 usages 1 vinhuanc
8 public class Medication {
9     3 usages
10     private Integer id;
11     1 usages
12     private String genericName;
13     1 usages
14     private String brandName;
15     1 usages
16     private String mainPurpose;
17
18     no usages 1 vinhuanc
19     public Medication(Integer id, String genericName, String brandName, String mainPurpose) {
20         this.id = id;
21         this.genericName = genericName;
22         this.brandName = brandName;
23         this.mainPurpose = mainPurpose;
24     }
25
26     no usages 1 vinhuanc
27     public Integer getId() { return id; }
28
29     no usages 1 vinhuanc
30     public void setId(Integer id) { this.id = id; }
31
32     2 usages 1 vinhuanc
33     public String getGenericName() { return genericName; }
34
35     no usages 1 vinhuanc
36     public void setGenericName(String genericName) { this.genericName = genericName; }
37
38     no usages 1 vinhuanc
39     public String getBrandName() { return brandName; }
40
41     no usages 1 vinhuanc
42     public void setBrandName(String brandName) {
43         this.brandName = brandName;
44     }
45
46     no usages 1 vinhuanc
47     public String getMainPurpose() { return mainPurpose; }
48
49     no usages 1 vinhuanc
50     public void setMainPurpose(String mainPurpose) { this.mainPurpose = mainPurpose; }
51 }
52
```

```
MedicationService.java
1 package com.project.ToDoList.service;
2
3 import com.project.ToDoList.Model.Medication;
4 import com.project.ToDoList.mapper.MedicationMapper;
5 import org.springframework.stereotype.Service;
6
7 3 usages 1 vinhuanc
8 @Service
9 public class MedicationService {
10     3 usages
11     private MedicationMapper mapper;
12
13     no usages 1 vinhuanc
14     public MedicationService(MedicationMapper mapper) {
15         this.mapper = mapper;
16     }
17
18     2 usages 1 vinhuanc
19     public Medication[] getMedications() {
20         Medication[] meds = mapper.selectMedication();
21         return meds;
22     }
23
24     1 usage 1 vinhuanc
25     public int addMedication(Medication medication) { return mapper.insertMedication(medication); }
26 }
27
```

```
MedicationController.java
10 import java.text.ParseException;
11
12 no usages 1 vinhuanc
13 @Controller
14 public class MedicationController {
15     4 usages
16     private MedicationService service;
17
18     no usages 1 vinhuanc
19     public MedicationController(MedicationService service) { this.service = service; }
20
21     no usages 1 vinhuanc
22     @PostMapping("/home")
23     public String addMedication(Model model, Medication medication){...}
24
25     no usages 1 vinhuanc
26     @GetMapping("/home")
27     public String getHome(Model model, Medication medication) throws ParseException {
28         model.addAttribute( attributeName: "message", attributeValue: "Hello Subscribers From Controller");
29         Medication[] meds = service.getMedications();
30         model.addAttribute( attributeName: "medications", meds);
31         return "home";
32     }
33 }
34
```

```
MedicationMapper.java
1 package com.project.ToDoList.mapper;
2
3 import com.project.ToDoList.Model.Medication;
4 import org.apache.ibatis.annotations.Insert;
5 import org.apache.ibatis.annotations.Mapper;
6 import org.apache.ibatis.annotations.Select;
7
8 3 usages 1 vinhuanc
9 @Mapper
10 public interface MedicationMapper {
11     1 usage 1 vinhuanc
12     @Select("select * from Medication")
13     Medication[] selectMedication();
14
15     1 usage 1 vinhuanc
16     @Insert("Insert into Medication (id, genericName, brandName, mainPurpose) values (#{id},#{genericName}, #{brandName}, #{mainPurpose})")
17     int insertMedication(Medication medication);
18 }
19
```

```

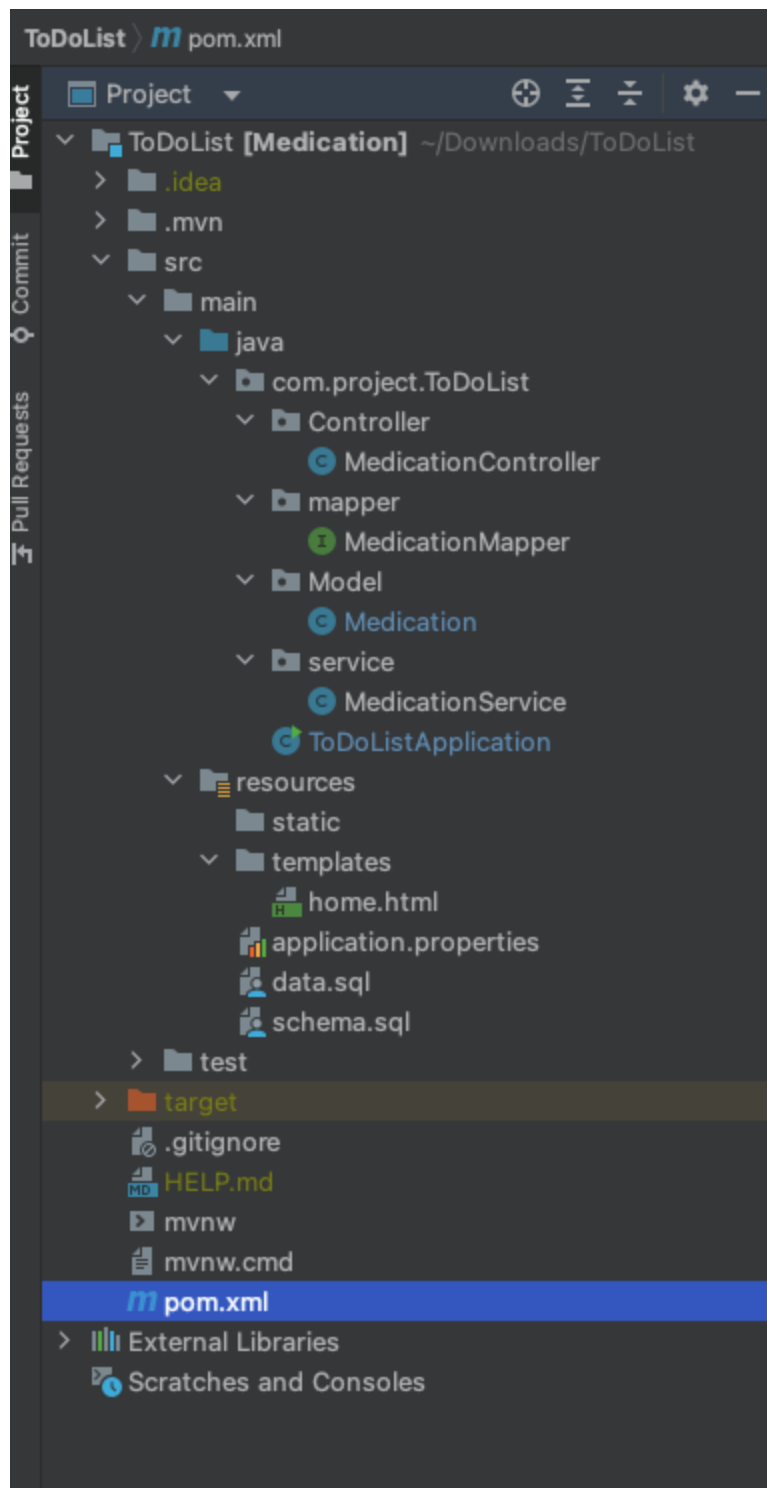
<?xml version="1.0" encoding="UTF-8"?>
<project xmlns="http://maven.apache.org/POM/4.0.0" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="http://maven.apache.org/POM/4.0.0 https://maven.apache.org/xsd/maven-4.0.0.xsd">
  <modelVersion>4.0.0</modelVersion>
  <parent>
    <groupId>org.springframework.boot</groupId>
    <artifactId>spring-boot-starter-parent</artifactId>
    <version>3.1.2</version>
    <relativePath/> <!-- lookup parent from repository -->
  </parent>
  <groupId>com.project</groupId>
  <artifactId>Medication</artifactId>
  <version>0.0.1-SNAPSHOT</version>
  <name>ToDoList</name>
  <description>To do list application</description>
  <properties>
    <java.version>20.0.1</java.version>
  </properties>
  <dependencies>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-thymeleaf</artifactId>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-web</artifactId>
    </dependency>
    <dependency>
      <groupId>org.mybatis.spring.boot</groupId>
      <artifactId>mybatis-spring-boot-starter</artifactId>
      <version>3.0.2</version>
    </dependency>

    <dependency>
      <groupId>com.h2database</groupId>
      <artifactId>h2</artifactId>
      <scope>runtime</scope>
    </dependency>
    <dependency>
      <groupId>org.springframework.boot</groupId>
      <artifactId>spring-boot-starter-test</artifactId>
      <scope>test</scope>
    </dependency>
  </dependencies>

```

```
    </dependency>
    <dependency>
      <groupId>org.mybatis.spring.boot</groupId>
      <artifactId>mybatis-spring-boot-starter-test</artifactId>
      <version>3.0.2</version>
      <scope>test</scope>
    </dependency>
  </dependencies>

  <build>
    <plugins>
      <plugin>
        <groupId>org.springframework.boot</groupId>
        <artifactId>spring-boot-maven-plugin</artifactId>
      </plugin>
    </plugins>
  </build>
</project>
```





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