File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer ×

- department
  - JRE System Library [JavaSE-1
  - src
    - department
      - department2.java
      - department3.java
    - module-info.java
    - pom.xml

department2.java   department/src/pom.xml   department3.java ×

```java
1 package department;
2
3 import com.sun.net.httpserver.HttpServer;
4 import com.sun.net.httpserver.HttpHandler;
5 import com.sun.net.httpserver.HttpExchange;
6
7 import java.io.IOException;
8 import java.io.OutputStream;
9 import java.net.InetSocketAddress;
10 import java.util.HashMap;
11 import java.util.Map;
12
13 public class department3 {
14     private static Map<Integer, String> departmentDatabase = new HashMap<>();
15     private static Map<Integer, Employee> employeeDatabase = new HashMap<>();
16
17     public static void main(String[] args) throws IOException {
18         // Populate the in-memory databases
19         departmentDatabase.put(10, "Admin");
20         departmentDatabase.put(20, "Accounts");
21         departmentDatabase.put(30, "Sales");
22         departmentDatabase.put(40, "Marketing");
23         departmentDatabase.put(50, "Purchasing");
24
25         employeeDatabase.put(1, new Employee(1, "Amal", 10, 30000));
26         employeeDatabase.put(2, new Employee(2, "Shyamal", 30, 50000));
27         employeeDatabase.put(3, new Employee(3, "Kamal", 40, 10000));
28         employeeDatabase.put(4, new Employee(4, "Nirmal", 50, 60000));
29         employeeDatabase.put(5, new Employee(5, "Bimal", 20, 40000));
30         employeeDatabase.put(6, new Employee(6, "Parimal", 10, 20000));
31
32         // Create an HTTP server
33         HttpServer server = HttpServer.create(new InetSocketAddress(9000), 0);
34         server.createContext("/api", new DepartmentHandler());
35         server.start();
36
37         System.out.println("Server started on port 9000...");
38     }
39
40     static class DepartmentHandler implements HttpHandler {
41         @Override
```

Markers   Properties   Servers   Data Source Explorer   Snippets   Terminal   Console ×

department3 [Java Application] C:\Users\Deep\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe (22-Aug-2023, 8:05:05 pm) [pid: 1360]
Server started on port 9000...

Writable   Smart Insert   9 : 35 : 250

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer ×

department2.java   department/src/pom.xml   department3.java ×

department
  JRE System Library [JavaSE-1
  src
    department
      department2.java
      department3.java
    module-info.java
    pom.xml

```java
40      static class DepartmentHandler implements HttpHandler {
41          @Override
42          public void handle(HttpExchange exchange) throws IOException {
43              String query = exchange.getRequestURI().getQuery();
44              String[] queryParts = query.split("=");
45
46              if (queryParts.length != 2 || !queryParts[0].equals("ENO")) {
47                  sendResponse(exchange, "Invalid request", 400);
48                  return;
49              }
50
51              int eno = Integer.parseInt(queryParts[1]);
52              Employee employee = employeeDatabase.get(eno);
53
54              if (employee != null) {
55                  String departmentName = departmentDatabase.get(employee.getDno());
56                  Department department = new Department(employee.getDno(), departmentName);
57
58                  sendResponse(exchange,
59                          "Employee Details: ENO: " + employee.getEno()
60                          + ", ENAME: " + employee.getEname()
61                          + ", DNO: " + employee.getDno()
62                          + ", SALARY: " + employee.getSalary()
63                          + ", DNAME: " + department.getDname(), 200);
64              } else {
65                  sendResponse(exchange, "Employee not found", 404);
66              }
67          }
68
69          private void sendResponse(HttpExchange exchange, String response, int statusCode) throws IOException {
70              exchange.sendResponseHeaders(statusCode, response.length());
71              OutputStream os = exchange.getResponseBody();
72              os.write(response.getBytes());
73              os.close();
74          }
75      }
76
77      public static class Employee
78      {
79          private int eno;
80          private String ename;
```

Markers   Properties   Servers   Data Source Explorer   Snippets   Terminal   Console ×

department3 [Java Application] C:\Users\Deep\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe (22-Aug-2023, 8:05:05 pm) [pid: 1360]

```
Server started on port 9000...
```

Writable   Smart Insert   9 : 35 : 250

File   Edit   Source   Refactor   Navigate   Search   Project   Run   Window   Help

Project Explorer ×

> department
  > JRE System Library [JavaSE-1
  > src
    > department
      > department2.java
      > department3.java
    > module-info.java
    pom.xml

department2.java   department/src/pom.xml   department3.java ×

```java
 77    public static class Employee
 78    {
 79        private int eno;
 80        private String ename;
 81        private int dno;
 82        private int salary;
 83
 84        public Employee(int eno, String ename, int dno, int salary)
 85        {
 86            this.eno = eno;
 87            this.ename = ename;
 88            this.dno = dno;
 89            this.salary = salary;
 90        }
 91
 92        public int getEno()
 93        {
 94            return eno;
 95        }
 96
 97        public String getEname()
 98        {
 99            return ename;
100        }
101
102        public int getDno()
103        {
104            return dno;
105        }
106
107        public int getSalary()
108        {
109            return salary;
110        }
111    }
112
113    public static class Department
114    {
115        private int dno;
116        private String dname;
117        public Department(int dno, String dname)
```

Markers   Properties   Servers   Data Source Explorer   Snippets   Terminal   Console ×

department3 [Java Application] C:\Users\Deep\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe (22-Aug-2023, 8:05:05 pm) [pid: 1360]

Server started on port 9000...

Writable   Smart Insert   9 : 35 : 250

```java
              return eno;
          }

          public String getEname()
          {
              return ename;
          }

          public int getDno()
          {
              return dno;
          }

          public int getSalary()
          {
              return salary;
          }
      }

      public static class Department
      {
          private int dno;
          private String dname;
          public Department(int dno, String dname)
          {
              this.dno = dno;
              this.dname = dname;
          }
          public int getDno()
          {
              return dno;
          }

          public String getDname()
          {
              return dname;
          }
      }
}
```

Console

```
department3 [Java Application] C:\Users\Deep\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe  (22-Aug-2023, 8:05:05 pm) [pid: 1360]
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```

```
department3 [Java Application] C:\Users\Deep\.p2\pool\plugins\org.eclipse.justj.openjdk.hotspot.jre.full.win32.x86_64_17.0.6.v20230204-1729\jre\bin\javaw.exe  (22-Aug-2023, 8:05:05 pm) [pid: 1360]
Server started on port 9000...
```

Test New Import

⊘ Overview | GET http://localhost:8000/api | GET http://localhost:9000/api | + | ⋯

No Environment ⌄

HTTP Pentonix / **http://localhost:9000/api?ENO=1**

💾 Save ⌄

GET ⌄ http://localhost:9000/api?ENO=1 **Send** ⌄

Collections

Environments

History

Pentonix
  GET http://localhost:9000/api?ENO=1
  GET http://localhost:8000/api/admi...

Params ● Authorization Headers (6) Body Pre-request Script Tests Settings **Cookies**

Query Params

	Key	Value	Description	⋯ Bulk Edit
☑	ENO	1		
	Key	Value	Description	

Body Cookies Headers (2) Test Results

🌐 Status: **200 OK** Time: **18 ms** Size: **151 B** 💾 Save as Example ⋯

Pretty Raw Preview Visualize Text ⌄ ⇥

```
1    Employee Details: ENO: 1, ENAME: Amal, DNO: 10, SALARY: 30000, DNAME: Admin
```