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學習

dropwizard

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#dropwizard

.....	1
1: dropwizard	2
.....	2
Examples.....	2
.....	2
2:	3
Examples.....	3
.....	3
3:	5
Examples.....	5
GET.....	5
.....	5
.....	7

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1: dropwizard

DropwizardJava◦

DropwizardWeb◦

- HTTPJetty
- REST
- JSON
-

Examples

dropwizard◦

dropwizard <https://riptutorial.com/zh-TW/dropwizard/topic/3884/dropwizard>

2:

Examples

- getsetthing◦

```
package things;

import io.dropwizard.cli.Command;
import io.dropwizard.setup.Bootstrap;
import net.sourceforge.argparse4j.inf.FeatureControl;
import net.sourceforge.argparse4j.inf.Namespace;
import net.sourceforge.argparse4j.inf.Subparser;

public class ThingCommand extends Command {

    private static final String THING_COMMAND_NAME = "thing";

    private static final String THING_SUBCOMMAND_GET = "get";
    private static final String THING_SUBCOMMAND_SET = "set";

    public ThingCommand() {
        super(THING_COMMAND_NAME, "Thing management.");
    }

    @Override
    public void configure(Subparser subparser) {
        addSubCommand(subparser.addSubparsers().addParser(THING_SUBCOMMAND_GET)
            .help("Gets a thing."), new GetCommand());

        addSubCommand(subparser.addSubparsers().addParser(THING_SUBCOMMAND_SET)
            .help("Sets a thing."), new SetCommand());
    }

    private void addSubCommand(Subparser parser, Command cmd) {
        // associate the subcommand with a Command object
        parser.addArgument("--subcommand").help(FeatureControl.SUPPRESS).setDefault(cmd);
        parser.description(cmd.getDescription());
        cmd.configure(parser);
    }

    @Override
    public void run(Bootstrap<?> bootstrap, Namespace namespace) throws Exception {
        Command cmd = namespace.get("subcommand");
        assert cmd != null;
        cmd.run(bootstrap, namespace);
    }

    class GetCommand extends Command {

        public GetCommand() {
            super(THING_SUBCOMMAND_GET, "Gets a thing.");
        }

        @Override
        public void configure(Subparser cmd) {
            super.configure(cmd);
        }
    }
}
```

```
        cmd.addArgument("--name").type(String.class).required(true).help("Name of the
thing");
    }

    @Override
    public void run(Bootstrap<?> bootstrap, Namespace namespace) throws Exception {
        String thingName = namespace.getString("name");
        System.out.println("Getting the thing named: " + thingName);
    }
}

class SetCommand extends Command {
    // ...
}
}
```

myapp

```
$ bin/myapp thing get --name mything
Getting the thing named: mything
```

<https://riptutorial.com/zh-TW/dropwizard/topic/9323/>

3:

Examples

GET

```
@Path("/hello")
public class HelloResource {

    /**
     * A request to /hello would get the response "Hello World"
     */
    @GET
    public String exampleGet() {
        return "Hello World";
    }

    /**
     * A request to /hello/bob would get the response "Hello bob"
     */
    @Path("/{name}")
    @GET
    public String exampleWithParameter(@PathParam("name") String name) {
        return "Hello " + name;
    }
}
```

```
import javax.ws.rs.*;
import javax.ws.rs.core.Response;
import java.util.HashMap;
import java.util.Map;
import java.util.Objects;

@Path("/alphabet/{letter}")
public class AlphabetResource {

    private final Map<String, String> alphabet;

    public AlphabetResource() {
        this.alphabet = new HashMap<>();
        this.alphabet.put("A", "Apple");
    }

    @GET
    public Response get(@PathParam("letter") String letter) {
        if (alphabet.containsKey(letter)) {
            return Response.ok(alphabet.get(letter)).build();
        } else {
            return Response.status(Response.Status.NOT_FOUND).build();
        }
    }

    @PUT
```

```
public Response put(@PathParam("letter") String letter, String value) {
    if (alphabet.containsKey(letter)) {
        return Response.status(Response.Status.CONFLICT).build();
    } else {
        alphabet.put(letter, value);
        return Response.noContent().build();
    }
}

@POST
public Response post(@PathParam("letter") String letter, String value) {
    if (alphabet.containsKey(letter) && Objects.equals(alphabet.get(letter), value)) {
        return Response.notModified().build();
    } else {
        alphabet.put(letter, value);
        return Response.noContent().build();
    }
}
}
```

curl

```
curl -v -X GET http://localhost:8080/alphabet/A
curl -v -X PUT http://localhost:8080/alphabet/A -d "Avacado"
curl -v -X PUT http://localhost:8080/alphabet/B -d "Banana"
curl -v -X POST http://localhost:8080/alphabet/A -d "Apple"
curl -v -X POST http://localhost:8080/alphabet/A -d "Avacado"
```

<https://riptutorial.com/zh-TW/dropwizard/topic/7633/>

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