

# REST DVF Setup with Code Examples in BMC Helix AR 25.1.01

Step-by-Step Instructions with Code:

1. Create the Java Plugin (MyRestPlugin.java):

```
public class MyRestPlugin implements Plugin {

    @Override

    public void processRequest(PluginContext pc) throws IOException {

        pc.getResponse().setContentType("text/html;charset=UTF-8");

        PrintWriter out = pc.getResponse().getWriter();

        out.println("<html><head><script>");

        out.println(pc.getPageService().getEventInfrastructureCode());

        out.println("function fetchAndSend(url) {");

        out.println("  EventDispatcher.sendEventToMidTier('FetchURL', url).then(js => eval(js));");

        out.println("}");

        out.println("</script></head><body>Waiting for input...</body></html>");

    }

    @Override

    public String handleEvent(PluginContext pc, String eventType, String eventData) {

        if (!eventType.equals("FetchURL")) return "";

        String json = callExternalAPI(eventData); // Implement your HTTP call

        String escaped = json.replace("\\", "\\");

        return "EventDispatcher.sendEventToParent(\"RestResult\", \"" + escaped + "\");";

    }

    private String callExternalAPI(String url) {

        try (InputStream in = new URL(url).openStream()) {

            return new String(in.readAllBytes(), StandardCharsets.UTF_8);

        } catch (IOException e) {

            return "{\"error\": \"" + e.getMessage() + "\"}";

        }

    }

}
```

```
}  
  
}
```

## 2. Register Plugin:

- Form: Data Visualization Module
- Module Name: restfetch
- Entry Class: com.example.MyRestPlugin
- Attach compiled JAR

## 3. Create Definition:

- Form: Data Visualization Definition
- Definition Name: restfetch
- Module Name: restfetch
- Status: Active

## 4. Add DVF Field:

- In Developer Studio, create a Data Visualization Field
- Module Type: Visualizer
- Definition Name: restfetch

## 5. Trigger with Active Link:

- Run Process:

PERFORM-ACTION-SEND-EVENT F536870999 "FetchURL" \$YourURLField\$

## 6. Handle Result with Event AL:

- Execute On: Event
- Event Type: RestResult
- Set Fields: ResultField = \$EVENTDATA\$

Now your form fetches data from a URL and places the result into a field using a DVF.