Installation Documentation

map.apps with MD2

Project Seminar

Model-driven Mobile Development

(University of Münster)

15th December 2014

Contents

1 Prerequisites

The following software is required prior to the next steps:

- map.apps 3.1.0

- Eclipse IDE for Java and DSL Developers (e.g. Version Kepler)

- NetBeans EE (e.g. Version 8.0)

- Apache Tomcat 7.0 with running map.apps runtime

- GlassFish 4.+

2 Installing a map.apps Development Environment

2.1 Basic map.apps Development Setup

1. Extract the `sampleProjRemote` project from the map.apps distribution and load it in NetBeans.

2. In its `pom.xml`, set the `mapapps.remote.base` directive to the URL where the map.apps runtime is installed.

3. Right-click the project, select "Custom" and select "Goals..." to create a new Maven goal. Describe configuration

4. Open the `nbactions.xml`. Describe set property for Jetty port 9090

2.2 MD2 Runtime Bundles Deployment

1. Copy the MD2 runtime bundles into the `bundles/` directory of the project:

```
md2_formcontrols
md2_local_store
md2_location_service
md2_runtime
md2_store
onlinestatus
```

2. Copy a generated MD2 app into the project or use a symlink to reference apps from another location (see Section 3).

3 Creating Symbolic Links for Generated Apps

By using a symlink, a running NetBeans instance will automatically notice changes to the generated app. Consequently, if the Jetty server is running, the newly generated app will automatically be published and made available in the browser.

1. Open a terminal, and navigate to the map.apps NetBeans project directory (e.g. the extracted `sampleProjRemote` from step 1 in Section 2.1).

2. Navigate to the `apps/` directory using `cd src/main/js/apps`.

3. Create a symbolic link using an appropriate command (where *<PROJECT_NAME>* is the name of your MD2 Project in Eclipse, *<ECLIPSE_PROJECT_LOCATION>* is its location, and *<APP_NAME>* is the name of the generated app(s)):

    a) Windows:
       ```
       mklink /j <APP_NAME> <ECLIPSE_PROJECT_LOCATION>\<PROJECT_
       NAME>\src-gen\<PROJECT_NAME>.mapapps\<APP_NAME>
       ```

    b) Linux / OS X:
       ```
       ln -s <ECLIPSE_PROJECT_LOCATION>/<PROJECT_NAME>/src-gen/<PROJECT_
       NAME>.mapapps/<APP_NAME> <APP_NAME>
       ```

4. Repeat step 3 for every generated app that you would like to be refreshed automatically.

4 Running a Generated Backend

describe