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# Introduction

It is possible to define the underlying data model without having to write java code. To do this, you must use an XML descriptor which describes the DataNodes and their relationships. An skeleton XML descriptor has the following structure:

```
<?xml version="1.0" encoding="UTF-8"?>
<zkib-model>
  <datanode name="my-data">
    <finder name="title" type="title">
      </finder>
    <finder name="country" type="country">
      ...
    </finder>
  </datanode>
  <datanode name="title"/>
  <datanode name="country">
    <finder name="city" type="city">
      ...
    </finder>
  </datanode>

  <datanode name="city">
    ...
  </datanode>
</zkib-model>
```

Within the XML tag whose root is always zk-ib, you can specify one or more DataNodes. Each DataNode has a unique name. Within each DataNode, you can define multiple finders. Each finder specifies a name and a type. The name will be used to build xpaths, while the type identifies the type of DataNode this xpaths refers to.

Within each finder you can define multiple search handlers. They will be responsible for retrieving data from persistent storage, just like the find method on the finder interface. Additionally, you can define one or new instance handlers. They will be responsible for creating new business objects on user request.

Finally, each DataNode can have many persistence handlers. They will act just like the doInsert, doUpdate and doDelete methods on DataNode class. Each type of handler can be executed



conditionally, depending on expressions to be evaluated at run time. These expressions can use the following predefined variables:

Additionally, EL expressions may refer to all variables defined within the DataSource. Those variables are accessed via `JXPathContext.getVariables()` method. To use of this type of data models, simply create a datamodel component on the ZUL page and assign the src attribute the path to the XML descriptor. The path can be a web component or a class path resource.

Variable	Value
self	Current DataNode
instance	Business object wrapped into current DataNode
parent	Parent DataNode
parent.instance	Business object wrapped into parent DataNode
datasource	DataSoruce the current DataNode belongs to

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Revision #2

Created 1 June 2021 10:39:18 by pgarcia@soffid.com

Updated 1 June 2021 10:40:23 by pgarcia@soffid.com