**Domain Model**  
To illustrate some of the key concepts of sonarQube we provide this domain model. At the left we see the Dashboard which is the GUI and consists of multiple widgets, a possibility to find dependencies, issues and measures and other features. The widgets then can contain and represent data such as measures and issues. These are both generated by first scanning a project which contains resources and saving this data as a Snapshot. A Resource can be a file, a class a project or even a Unit Test. SonarQube can contain Profiles which consist of a set of coding Rules. When a resource does not follow a rule an Issue is created. The user has the possibility to create actionPlan which resolve one or more of those issues.  
The scanning of the files also generate metrics like LOC and complexity for the different resources. These can be used by the filters in Measures which query the different projects.  
Finally when a resource uses a certain library a Dependency is created which can be searched.