



e-Me Plugins





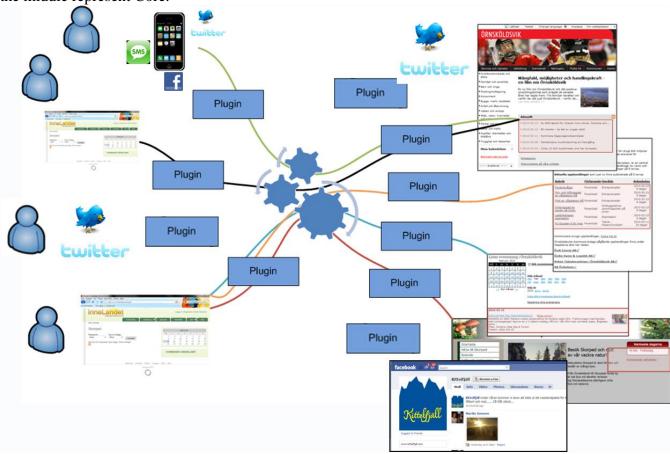


1 Plugins

1.1 What are plugins?

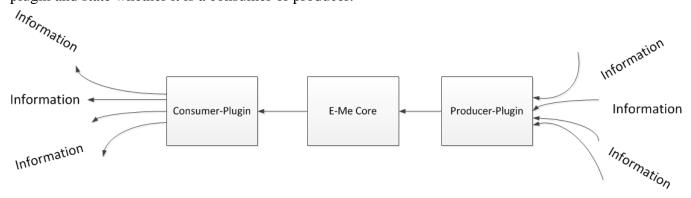
Whilst e-Me Core is the engine that schedules and delegates work, plugins are the ones performing the actual work. These are the parts that bring e-Me together. Plugins are completely independent of each other and can be added and removed without affecting the rest of the system.

The image below illustrates these connections between third parties, plugins and e-Me Core. The cogs in the middle represent Core.



1.2 Architecture

There is an important part when describing the architecture and where plugins come into place in e-Me. First, there are two different types of plugins, secondly, they are built the exact same way. To explain the first statement, there are Consumer plugins and Producer plugins. The image above shows Consumers on the left hand side and Producers on the right. The second statement explains that they are built the exact same way. This is also true and it is done to simplify the way e-Me Core handles the plugins. This makes it possible for Core to take any kind of plugin without even caring about what kind it is. Of course when a plugin is registered, the developer of the plugin will fill in information about the plugin and state whether it is a consumer or producer.



1.3 Relation to Core

As mentioned previously, the plugins rely on Core. Core is the engine that starts the plugins and supplies them with their required information needs. These can be a range of things that the plugins decide. Plugins can require that users input information such are their email address, a verification to post on twitter or facebook. Pretty much anything that a user can be prompted with, it's all down to the plugin to decide what this information is.

Plugins also have access to store and retrieve information from a database. This information can be used on a per-plugin and per-user level. The information is usually a date of when the plugin was last run. This is done to make sure that for example the plugin does not get the same information twice to the same user.

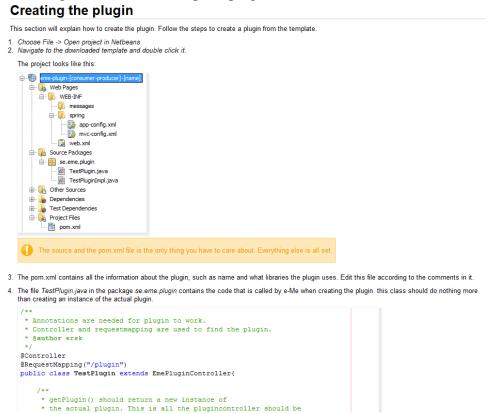
1.4 Software

Plugins are, just like core, java applications. They are packaged as .WAR files (web archive) and runs on the same JBoss Application Server as e-Me Core.

Plugins can use any external libraries they want to perform their tasks. Core provides a few to simplify the development of plugins. They are also maven based so a developer simply has to build using maven and all dependencies will be downloaded automatically.

1.5 Development

Developing a plugin is very straight forward. A developer goes to http://www.e-me.se/developer and follows a guide there to develop the plugin.



A template is downloaded and the developer only has to change the content of one method in the code to create the plugin. The code is then built and uploaded to e-Me from the web site and is thereby automatically deployed on the server. This requires that a user is a registered developer.