

Servlet/Controller view



Servlet/webSession view



Controller - configurable timer and thread pools added



Asynchronous Crest Client added



Note:

Some "ContactsWebPage calls the static get on the Contacts (CrestData), which uses the CrestClient to instantiate the needed CrestGetTask and submit it to the BlockingExecutor. The ContactsWebPage call returns at this point, non-blocked. The remainder executes in its own thread obtained from the Executor.

The CrestGetTask will first waitAsNeeded on the request url's cache time (url specific RequestThrottle), if this url has been seen before. It then waitAsNeeded on the generic system wide RequestThrottle and then executes the request. Note that the url specific wait types are in the minutes. When the request returns to the CrestGetTask object it uses Gson to convert the json string to the requested CrestData object. The given CrestResponseCallback object (initially from ContactsWebPage call) is then called to deliver it's requested CrestData object (Contacts in this example).