**Managing Dependencies: Part 3**

**Optimizing Your Code: The RequireJS Build Tool**

Once you incorporate RequireJS for dependency management, your page is set up to be optimized very easily. Download the RequireJS source and place it anywhere you like, preferrably somewhere outside your web development area. For the purposes of this example, the RequireJS source is placed as a sibling to the webapp directory, which contains the HTML page and the scripts directory with all the scripts. Complete directory structure:

requirejs/ (used for the build tools)

webapp/app.html

webapp/scripts/app.js

webapp/scripts/require-jquery.js

webapp/scripts/jquery.alpha.js

webapp/scripts/jquery.beta.js

Then, in the scripts directory that has require-jquery.js and app.js, create a file called app.build.js with the following contents:

**Example 10.10. A RequireJS build configuration file**

{

appDir: "../",

baseUrl: "scripts/",

dir: "../../webapp-build",

//Comment out the optimize line if you want

//the code minified by Closure Compiler using

//the "simple" optimizations mode

optimize: "none",

modules: [

{

name: "app"

}

]

}

To use the build tool, you need Java 6 installed. Closure Compiler is used for the JavaScript minification step (if optimize: "none" is commented out), and it requires Java 6.

To start the build, go to the webapp/scripts directory, execute the following command:

# non-windows systems

../../requirejs/build/build.sh app.build.js

# windows systems

..\..\requirejs\build\build.bat app.build.js

Now, in the webapp-build directory, app.js will have the app.js contents, jquery.alpha.js and jquery.beta.js inlined. If you then load the app.html file in the webapp-build directory, you should not see any network requests for jquery.alpha.js and jquery.beta.js.