Adapt Authoring Tool Boot Worked Example

The below is an example of the module boot process showing tasks each module performs in each boot stage. Each row shows the process for a single module.

Prior to the process below, we can assume the following:

- App has been created
- DependencyLoader has been created
- Utilities have been created and cached on App instance by DependencyLoader

	Create sync	Preload async	Boot async	*Post-boot*
HelloWorld AbstractModule		Create routers		
MongoDB AbstractModule	Configure settings		Connect to DB	
Server AbstractModule	Instantiate Express app Create app routers		Add all routes to app Listen for incoming reqs	
Users AbstractModule		Create router		On MongoDB boot add schemas to DB

***TODO**: the DB connection should maybe be moved to the preload stage, removing the need for other modules to wait for MongoDB to boot before using the DB*

***Note**: Express doesn't allow new routers/ routes once the app is listening, so the server's preload stage is empty to allow other modules to add their routes here .*

***Note:** all deps are usually loaded in alphabetical order due to order of package.json.*

All deps created

All deps preloaded

All deps booted

*By this point all utilities are loaded and available and all modules can be accessed via **App#getModule***