AsDeL

TestControllerEngine

WebService Interface

Session ID Generator

Unpacker

JQTI (Unpacker)

TestController 1..n

Timer

WebService

WebService

QTIAssessmentTestEngine

JQTI (AssessmentTest) 1..n

AssemblerRendererEngine

<AssemblerRenderer> 1..

<AssemblerRenderer> 1..

R2Q2

WebService

Title: ASDEL Component Architecture Diagram	
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JQTI

- Pure Java library for interpreting and evaluating IMS QTI.

  - Mostly dealing with classes related to AssessmentTest (i.e. those required for ASDEL)

    - Lots of them!

      - i.e expressions

  - Also deals with IMS Content Packaging and conformance profiles

TestControllerEngine

- Orchestrates overall user-session interaction with ASDEL.

  - Basically a router for all traffic related to the test session

QTIAssessmentTestEngine

- Manages the complete life-cycle of a test.

  - TestController asks it for the next question, and once the user has responded, writes the R2Q2 response variables.

    - Almost everything else happens internally!

    - Through JQTI will provide the ability to serialise a test session for later resumption.

AssemblerRendererEngine

- Service for rendering tests for display to a user.

  - Plugin-able architecture allows multiple renderers (or instances of renderers) with their own specific settings.

    - ASDEL will provide a basic template-able xhtml renderer with options for rendering whole pages, or just fragments