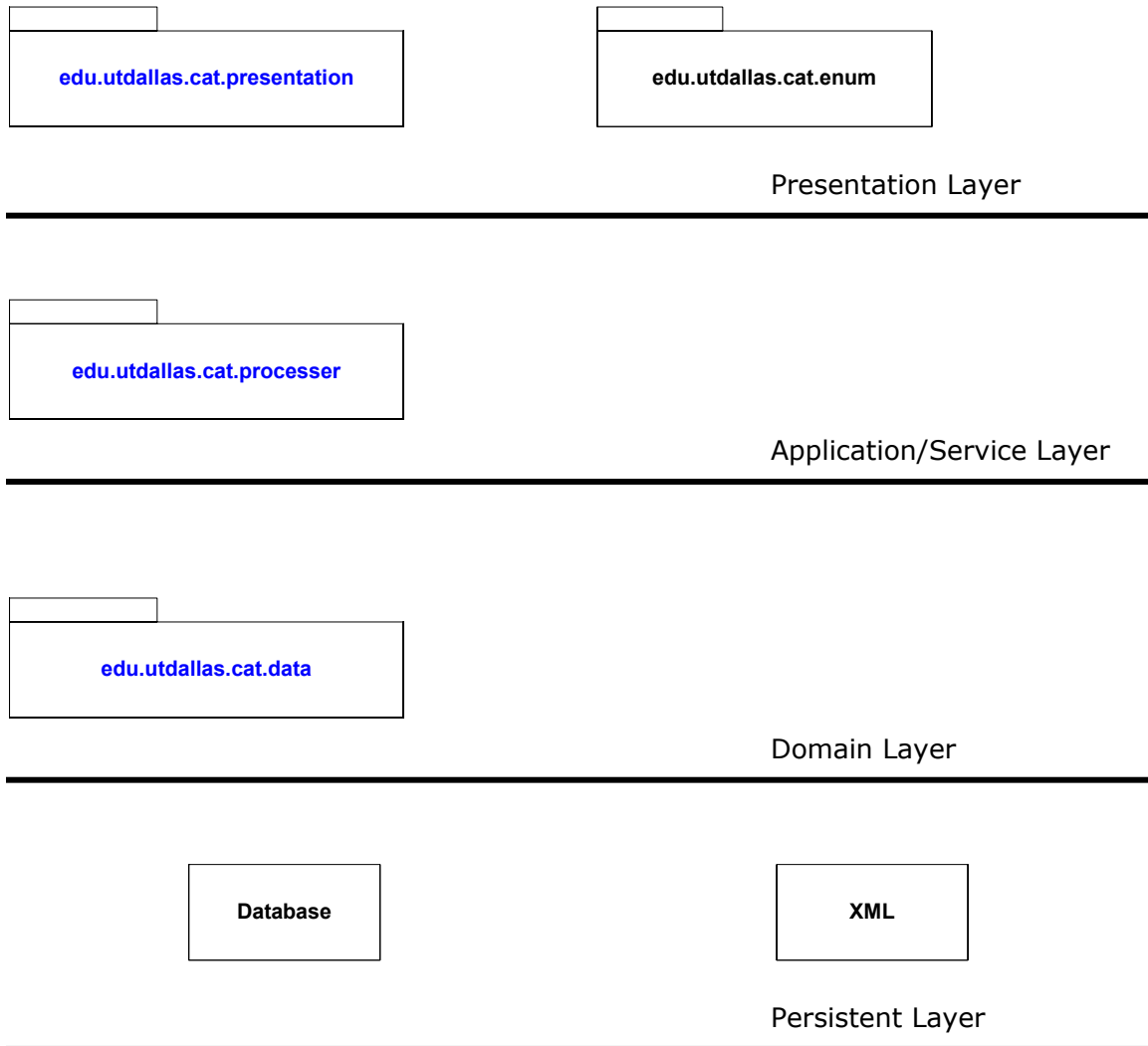




J2EE layered architecture





Design and Architecture: COTS-Aware Requirements Engineering Tool 1.0

Presentation Layer:

The presentation layer is design with JFC – Swing. Java Foundation Classes provides rich features to develop the graphical representation of the CAT Interface.

Application/Process Layer

The application/process layer handles persistent storage of the CAT model created to a xml file format. With the help of the data package, the Agent, Goal and the contributions are converted to their respective AgentData, SoftGoalData and ContributionData objects. The XML data-binding framework provided by castor, will marshal the java objects to a xml file. The *.cat filter is applied to the files save. When loading a .cat file, the process is reversed and the xml files gets unmarshalled to java objects and painted on to the screen. The application layer also communicates to the persistent database layer via JDBC connection to query the available COTS components.

Domain Layer

The domain layer with the data objects act as helper files between the application and the persistent layer. They form the java object that gets passed between the presentation and the persistent XML storage.

Persistent Layer

The persistent layer is formed by the COTS repository database and XML model storage files.