This library is an interface that combines xquery_model items with objects from yqgm. It has two parts:

1) XQueryYQGMFactory – this is a factory that encapsulates XQueryDatamodelFactory (which produces xquery_model objects), XQueryFunctionFactory (which produces xquery_model functions), and ExtendedXQueryFunctionFactory (which produces xquery_model_extended functions). Its main purpose is to produce YQGM objects, calling the datamodel factories as necessary.

2) Datamodel Objects – these are YQGM objects that are specific to xquery model objects. For example, XQueryPFunction is an YQGM parse tree that specifically does xquery_model functions.

To use library, the user should create their own implementations of the datamodel and function factories, then pass it into the constructor of XQueryYQGMFactory. Any calls to the datamodel and function factories should be done through an interface of XqueryYQGMFactory (since those do not produce YQGM). All functions in XqueryYQGMFactory should produce YQGM objects.