

Initial Requirement Specification for Project X-UI-Gen.

Author	Date	Changes
Sujit K M	12/03/2010	Added Initial Document.

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- Initial Requirement :
 - As with Any Project This project is to define the Development of UI Based out of some Design Parameter (Currently the XML and UML Specification for the Project). The Initial Design was to emulate a specific Technology like AWT or Swing in Java.
 - But as the current UI Usability Paradigm requires Every Technology (like AWT/Swing) to be consistent with the basic display in the native environment.
 - UI Design Paradigm, As discussed in 1.1 We make use of the XML/UML
 - Technologies. We need an UI Based DTD for XML and an UML Model for further encapsulating Business Methods.
 - As discussed in 1.3 we need Support for CDATA in XML. Also the requirements for the parameter that could be available to such a method or code stub.
- Further Refinement to Requirement:
 - Further To Requirement in 1.2 it is to be generally discussed whether we need support for Specific technologies like AWT/Swing. We need to only support the native environment. So Specific Technologies donor need to be used.
 - Further To Requirement in 1.2 it is to be generally discussed whether we Support Server side Scripting Languages like JSP/PHP/Python.
- Building Blocks :
 - The Basic Building block for the project are to be defined in terms of Libraries/Framework/Compilers/OS.
 - The Libraries are GTK+(Webkit)/QT-Jambi/wxWidgets.
 - The Frameworks to be used are internally to the project. The are build on base frameworks and associated UI Design and Master UI.
 - Compilers are specifically the c++ compilers that need to be used to compile the project.
 - OS are the supported platform. These are currently Mac OS X and Linux.
- Supported Data Sources/Back End.
 - The Back End or Data Sources are defined within the project as Operations.
 - Operations are defined as Database Related and Non DB Related.
 - Database Related are SQL Based/Object Based – Relational – SQL based.
 - Non Database Related are further Classified as XML/RSS/Pod cast/ Customized Operations/Back End Data Sources.

- .UI Requirements:
 - Should have Support for Title/Subtitle/Frames/HTML/JavaScript/Ajax/Back End Data Import.
 - Should have support for flash.
 - Should be able to create classes for the Output UI.
 - Should be able to support Server Side Scripting Languages like PHP/JSP.
- Back End Requirements:
 - Would need to support CDATA for the XML Model. This forms the Data Import point for the XML Design. Need to implement Generic Data base Interface.