Blueprint Software Architecture Diagram Annotation

# Client Modules

## Requirement Management Module

Requirement Management is main user experience module. Contains all main user views, dialogs and other interactions. C#/XAML/Silverlight. Code is using WCF RIA to connect to service layer. Contained in RequirementCenter.Web project.

## Review Functionality Module

Review Functionality allows users to review their requirements project and add comments to artifacts. C#/XAML/Silverlight. Code is using WCF RIA to connect to service layer. Contained in RequirementCenter.Web project.

## Simulation Functionality Module

Simulation Functionality allows users to run their use case / UI mockup scenarios in predetermined sequence. C#/XAML/Silverlight. Code is using WCF RIA to connect to service layer. Contained in RequirementCenter.Web project.

## Instance / Project Administration Module

Instance and Project Administration allows for Blueprint Software instance and user project setup management. C#/XAML/Silverlight. Code is using WCF RIA to connect to service layer. Contained in RequirementCenter.Web project.

## Rapid Review Module

Rapid Review is HTML5 single page application encapsulating informal project review process functionality. TypeScript/HTML/CSS/AngularJS/mxGraph. Contained in RequirementCenter.Web project.

# Server Modules

## Main Experience Service

Main Experience Service implements functionality to facilitate requirements management and persistence. C#/WCF RIA. Contained in BluePrintSys.RC.Service.Ria.BPDDomainServices and BluePrintSys.RC.Service.Business projects.

## Instance / Project Administration Service

Instance and Project Administration Service implements functionality to manage instance and project setup. C#/WCF RIA. Contained in BluePrintSys.RC.Service.Ria.BPDDomainServices and BluePrintSys.RC.Service.Business projects.

## Document / Content Service

Document / Content Service implements document upload / download / content streaming functionality. C#/WCF REST. Contained in BluePrintSys.RC.Service.Ria.BPDDomainServices and BluePrintSys.RC.Service.Business projects.

## Data Analytics Service

Data Analytics Service implements functionality to view data analytics. It exposes OData interface. Module operates in Data Analytics database, but also has access to Main database for authentication. Data Analytics database is updated from main database via ETL process. ETL process is scheduled nightly using MS SQL Server scheduling. C#/WCF. Contained in DataAnalytics solution.

## Rapid Review Service

Rapid Review Service to facilitate Rapid Review SPA. C#/Web API. Contained in BluePrintSys.RC.Business.Internal and BluePrintSys.RC.Web.Web projects.

## Open API Service

Open API Service exposes Blueprint Software functionality via REST endpoint. It is designed for various external system integration scenarios, such as integration with TASKTOP and OpsHub. C#/Web API. Contained in BluePrintSys.RC.Api.Business and BluePrintSys.RC.Api.Web projects.

## Job Executor Windows Service

Job Executor Windows service performs long running user initiated operations. Long running user initiated operations saved in operations table in Main DB. Job Executor periodically checks the operations table for new records. If found, long running operation is performed and record is updated. C#. Contained in BluePrintSys.RC.JobExecutor project.

## QC Lite Connector Service

QC Lite Connector Service allows for communication to HP ALM / QC via COM API. It isolates Blueprint Software from QC Client COM API. C#/Web API. Contained in QCLiteConnector.Web project.

## Excel Template Service

Excel Template Service allows users to import updated artifacts into Blueprint. C#/Web API. Contained in BluePrintSys.RC.Business.Internal and BluePrintSys.RC.Web.Web projects.

## ALM Connector Library

ALM Connector Library allows to synchronize Blueprint data with external ALM systems such as MS TFS and HP ALM / QC. In case of communication with QC COM API QC Lite Connector is used as mediator. C#. Contained in BluePrintSys.RC.AlmConnectors project.

## Phone Home Library

Phone Home Library collects and forwards the Blueprint Software usage information and forensics to centralized usage data service (Phone Home Windows Service). C#. Contained in BluePrintSys.RC.Data.PhoneHome project.

# Utility Modules

## Phone Home Windows Service

Phone Home Windows Service receives usage and forensics data from Blueprint Software installation instances and stores it for further analysis. C#. Contained in BluePrintSys.RC.Util.PhoneHomeService project.

## Bluedocs Document Conversion Application

Bluedocs Application allows users to convert MS Word files into Blueprint projects, extracting use cases and screen mockups. Application has self-learning capabilities to recognize patterns. C#/Silverlight Desktop. Contained in BlueprintDocumentConversionEngine project.

## Migration Utility

Migration Utility facilitates migration of data from legacy RC projects to Blueprint Software. Java/Swing. Contained in JavaMigrationUtility project.