

The Great Mind Challenge - Project Scenario

Note: Already filled information should not be changed

1 .	Name of the Project	System Architect Tool
2 .	Objective/ Vision	<p>IBM Rational System Architect is a leading Enterprise Architecture modeling product. It helps CXO's and Enterprise Architects define and understand their current state of architecture, and plan for the transformation of business.</p> <p>System Architect supports TOGAF 9, an architectural framework developed by The Open Group. TOGAF lays down a combination of architectural content and capability framework, and architecture development methodologies (ADM).</p> <p>ADM suggests the capture of a Baseline Architecture followed by the development of a Target architecture that will meet business objectives. System Architect supports development of Baseline and Target Architectures in different work areas called Workspaces.</p> <p>TOGAF ADM suggests that the gap between Base and Target chosen architectural components should be identified next, followed by a migration plan/roadmap after considering the business value for the architectural components, risks involved and estimated duration. The roadmap could further be driven by overall constraints like allowable Peak annual spending cost, etc.</p>
3 .	Users of the System	<p>A. Enterprise Architects B. Solution Architects C. Business Analyst D. Administrator E. general users</p>
4 .	Functional Requirements (Atleast Eight)	<p>1) The primary objective of this project is to visualize a roadmap for transitioning the architecture as mentioned above. This would use the data from System Architect but display in a separate interface.</p> <p>2) A second (optional) objective is to allow updates to the roadmap.</p> <p>3) The roadmap creation above would also be optionally supported by a Gap Matrix across different workspaces. This would also be displayed in a separate interface.</p> <p>4) It should implement following--</p> <p>I. The road-mapping utility should be invoked from System Architect</p> <p>II. They should be able to view gap matrix with all the Architecture Building Blocks (ABBs) of the Baseline Architecture on the vertical axis, and all the ABBs of the Target Architecture on the horizontal axis.</p> <p>III. In the matrix, they should be able specify if Target Architecture is "New", 'Included' or 'Eliminated' with respect to Baseline Architecture.</p>

		<p>IV. They should be able to select initial Architectural roadmap components from Work Packages in Target architecture, for further consolidated, cross-discipline road-mapping. This is typically done within the ADM Opportunities & Solutions phase.</p> <p>V. They should be able to display a roadmap for the progression from the Baseline Architecture to the Target Architecture along a timeline. The Architecture Roadmap must demonstrate how the selection and timeline of Transition Architectures and work packages realizes the Target Architecture.</p> <p>VI. The roadmap should be displayed with appropriate consideration of constraints like dependencies, costs, and benefits.</p>
5	Non-functional requirements (Atleast Four)	<p>i. It should be built upon/driven by the System Architect security mechanism.</p> <p>ii. Flexible architecture that can be used with System Architecture desktop or web product.</p>
6	Optional features	
7	User interface priorities	<p>A. Professional look and feel</p> <p>B. Should be in sync with System Architect UI.</p>
8	Reports	<p>1. Appropriate TOGAF Reports on Gap Analysis and Architectural Roadmap Document.</p>
9	Other important issues	
10	Team Size	2-4 members
11	Technologies to be used	UML, J2EE, XML, e-Forms, AJAX, Web 2.0, Web-services, SOA
12	Tools to be Used	<ul style="list-style-type: none"> • ROSE/RSA / WebSphere Modeler • Eclipse/ RAD / Lotus Forms Designer / Portlet Factory • WebSphere Portal/ WAS/ WAS CE / WPS • DB2 Express – ‘C’ or DB2 UDB • Tivoli CDP/TSM / Tivoli Directory Server

		<ul style="list-style-type: none"> • Linux will be the preferred OS. • IBM Rational System Architect, desktop and Web products. • IBM Rational System Architect Catalog Manager • Windows OS. • IBM Rational Publishing Engine
<p>1 3 .</p>	<p>Final Deliverable must include</p>	<ul style="list-style-type: none"> A. Complete Source code B. Demonstrable use-case, along with working sample System Architect repository C. Help documentation