VRE Architecture Design Notations

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Introduction

- Web has becomes a popular implementation platform for Virtual Research Environment (VRE)
- Grid/Web services and portals are a new paradigm for communication and interoperability between applications.



Why use design notations?

- Enabling fast prototyping, and automation of program codes generation
- There are also increasing interests in the use of declarative design languages, e.g. WebML and UML in Web applications development



The CORE approach

- The CORE project aims to provide an infrastructure that combines clinical, educational, and research activities and resources under a VRE
- The development team has produce a set of design notations for the VRE architecture



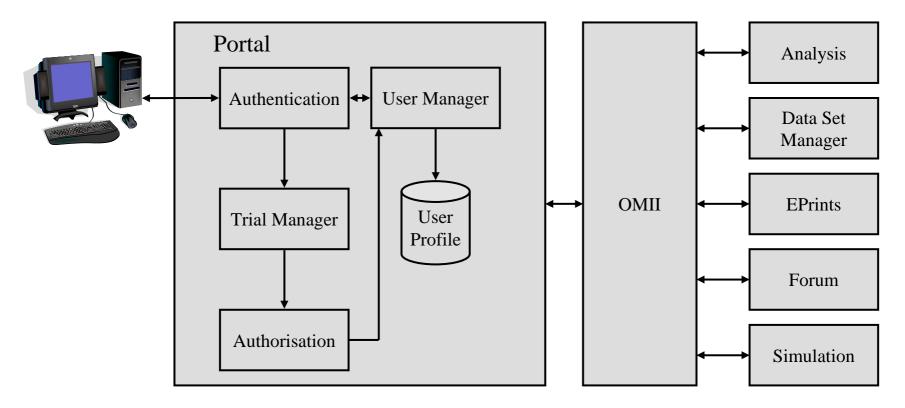
Architecture Design notations

Notation	Description
	Web Service
	Message (e.g. SOAP message)
	Infrastructure (e.g. middleware)
	Portlet
	Database
	Data



The CORE architecture

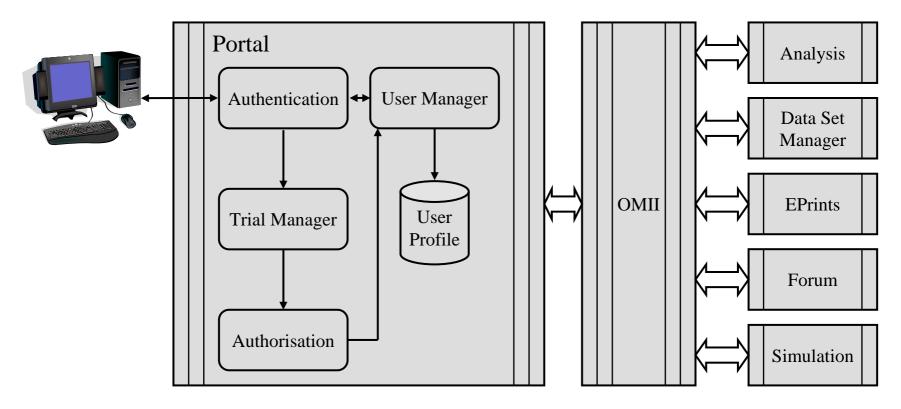
Without design notations

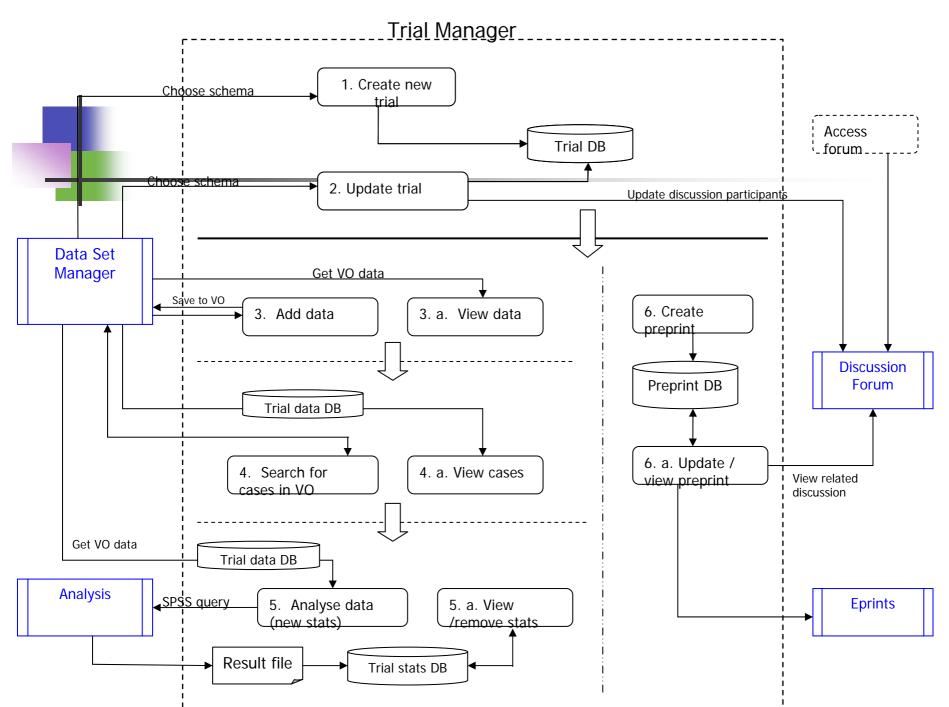




The CORE architecture

With design notations





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Discussion

Questions and comments are welcomed