

Collaborative Orthopaedics Research Environment

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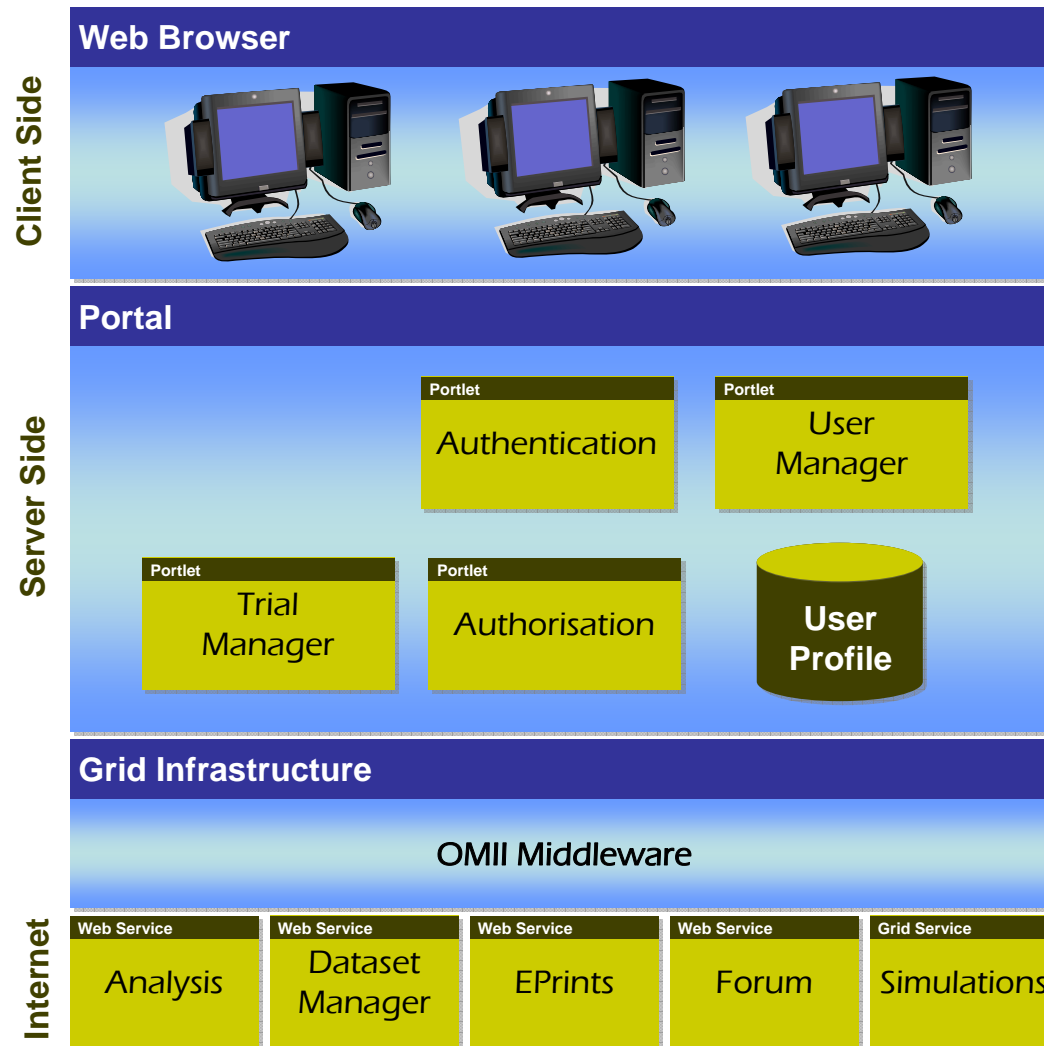
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Objectives

- To provide an infrastructure that combines clinical, educational and research under a Virtual Research Environment (VRE).
- To develop the VRE based on the user requirements and a loosely coupled architecture.
- To evaluate the VRE qualitatively and quantitatively.

Outputs

- A VRE which is implemented using Grid/Web services technologies and Service-Oriented Architecture concepts.
- Services that allow surgeons to create, manage and discuss their clinical trials.
- A portal which is used as a presentation layer that aggregates, integrates, personalises and presents information, transactions and applications to users.



Outcomes

- Being able to keep track of the research administration, e.g. trial protocol and workflow.
- Enabling access and analysis of scientific data among research communities.
- Allowing easier meta-analysis or thematic reviews.
- Enabling a consortium to write appropriate documents for dissemination.
- Producing up-to-date learning and teaching material.

Benefits

- The loosely coupled architecture allows services to be easily added or removed when user requirements change.
- VRE for orthopaedics may be of use in pioneering new or validating current procedures and techniques for orthopaedic surgery.