

# Example Virtual Patient Systems

Please include technical architecture and technical requirements!

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## System: CASUS

Design/structure: string of pearls/linear

Target audience: undergraduate students, postgraduate students, CME, schools

Users: Med-U ([www.med-u.org](http://www.med-u.org)), NetWorm ([www.networm-online.eu](http://www.networm-online.eu)), other universities and virtual universities in Europe (medical schools, dental schools, veterinary schools and CME)

In what educational setting: depends on VP, mostly used in independent learning settings, but also exams or other models

License Model: licence fee, distributed by Instruct

Website: [www.casus.net](http://www.casus.net)

Contact: [support@casus.net](mailto:support@casus.net)

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## System: CAMPUS System for Virtual Patients

Design/structure: CAMPUS uses different approaches for representing Virtual Patients using a simulative and a rapid e-learning player with one authoring system. Additionally, formative and secure, summative assessment software complement the didactic concepts. Mostly string of pearls/linear based. Target audience: Students, medical doctors

Users: Universities from Germany, Netherlands, Romania, Bosnia and Herzegovina

In what educational setting: All

Is this meant for PBL, independent learning, another learning model? CAMPUS offers three players: Simulative e-learning player, Web-based eViP capable player, and summative, secure, key feature capable exam player. It can be used for problem based learning, self-studying, simulative and rapid e-learning, formative or summative assessment.

License Model: Commercial or free for educational partners

Technical architecture: Can be used standalone, in a web browser or as adaptable SCORM package inside a learning management system. Runnable on all major OS.

Technical requirements: A modern browser for the Card-Player, additionally Java 6 for the other components.

Website: <http://campus-virtual-patients.com>

Contact: [info@campus-virtual-patients.com](mailto:info@campus-virtual-patients.com)



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## System: OpenLabyrinth

Design/structure: web application that allows users to build, run and analyse pathway-based applications. Pathways may be linear, branched or any other sequence format. Object referencing model allows for easy use and reuse of media, questions, avatars etc.

Target audience: any professional education and training program

Users: multiple institutions worldwide - this is an open source platform and implementers are not required to register - estimated currently ~30 deployments

In what educational setting: user defined - It can be used in multiple and very different settings. No explicit educational model is designed into the platform.

Is this meant for PBL, independent learning, another learning model? It can be used in multiple and very different settings. No explicit educational model is designed into the platform.

License Model: open source - Academic Free License v3.0

Technical architecture: currently ASP/VB with a beta Python version and a LAMP version in development

Technical requirements: Windows Server, IIS, MS SQL Server

Website: multiple:

<http://sourceforge.net/projects/openlabyrinth/>

<http://openlabyrinth.nosm.ca/>

<http://openlabyrinth.ca/>

Contact: [rachel.ellaway@nosm.ca](mailto:rachel.ellaway@nosm.ca)

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### **System: DecisionSim (vpSim)**

Design/structure: Web-based, software-as-a-service authoring, playback and management system for decision-based learning and assessment.

Target audience: all education levels and content domains but optimized for healthcare

Users: UK: St Georges Univ of London, Warwick University, University of the West. US: Northwestern University, Cleveland Clinic, University of Pittsburgh

In what educational setting: Typically for PBL, small group case studies, self-directed learning, formative and summative assessment. Also used for preparation and debriefing before and after physical simulator use.

License Model: annual license model, see [www.DecisionSimulation.com](http://www.DecisionSimulation.com)

Technical architecture: ASP.NET, Flash

Technical requirements: any modern web browser (Mac, Win, IE, Firefox, Opera, Chrome)

Website: [www.DecisionSimulation.com](http://www.DecisionSimulation.com)

Contact: [jbmCGee@decisionsimulation.com](mailto:jbmCGee@decisionsimulation.com)

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### **TUSK**

Design/structure: The TUSK virtual patient is part of a comprehensive enterprise educational system. The Case simulator is both string of pearls/linear and global. It has a simple web-based authoring interface and a player for the students. There is also a system coordinator interface used to enter default tests and values which are accessed by authors. The system contains rules that govern the student's ability to move on.

Target audience: undergraduate students, postgraduate students, CME, schools

Users: Medical, Dental and Veterinary Schools at Tufts University and other users of TUSK in the US and in Africa and India

In what educational setting: The VP is used for independent learning and in small group learning sessions for Problem Based Learning and for Clinical Reasoning

License Model: Currently requires a free evaluation license, eventually this will be open source. There is a fee for service if you require Tufts help to install the system.

Technical Requirements: The system runs on Linux from the server side. The system can be access by any web browser.

Website: [tusk.tufts.edu](http://tusk.tufts.edu)

Contact: [tusk@tufts.edu](mailto:tusk@tufts.edu)

[Susan.albright@tufts.edu](mailto:Susan.albright@tufts.edu)

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### **System: UChoose**

Design/structure: Web-based authoring, playback and management system for scenario-based learning and assessment.

Target audience: All Healthcare educational audiences, but applicable to many other educational contexts

Users: St Georges University of London; University of the West of England, Bristol; University Hospitals Bristol (NHS Trusts)

In what educational setting: It can be used for problem based learning, self-studying, interactive scenarios and formative or summative assessment..

License Model: Closed, but very open to collaborative working with healthcare and educational partners.

Technical architecture: SQL Server, ASP.NET MVC, Silverlight and HTML5

Technical requirements: any modern web browser (IE, Firefox, Opera, Chrome)

Website: [uchoose.uwe.ac.uk](http://uchoose.uwe.ac.uk)

Contact: [let.uchoose@uwe.ac.uk](mailto:let.uchoose@uwe.ac.uk)

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