CS92 – Educational Software Seminar

Patient++
Storyboard Presentation

Brought to you by:

• Jesse Chan-Norris
• Chris Creed
• Ben Garrett
• Britney Spears

(no, wait, Adam... sorry)
Agenda

• Introduction to Patient++
• Explanation of Structure
• Sample Case ("Roger" has the flu)
• Questions and Answers
Introduction

• Dr. Meredith Goodwin, M.D.
• Her Goals
• Our Goals
• Previous Attempts
• Why We Kick Ass
Dr. Goodwin and the Proposal

• Improve Upon Original Medical Interviewing Web Pages
  – only static information with links
  – http://biomed.brown.edu/Courses/Fam_Med_GI/family_medicine_gi.htm

• Designed for 3rd-year Medical Students
Dr. Goodwin’s Goals

- Provide a Higher Level of Interactivity Than Current Models
- Be Accessible Via The Information Superhighway
- Help Medical Students Become Better Interviewers and Diagnosticians
Our Goals

- Meet the Client’s Expectations
- Make the Process Entertaining for the End User, and thus Increase Educational Value
- Allow Project to be Technically Feasible
- Allow for High Level of Extensibility
- Get jcn a Girlfriend
Previous Attempts

• Medicus
  – http://medicus.marshall.edu/medicus.htm

• Interactive Dermatology Cases (UCLA)
  – http://idtu.medsch.ucla.edu/derm/

• Problems with These Attempts
  – Static (no opportunity for student to ask questions)
Our Project’s Competitive Advantages

• Doctor’s Ability to Add/Modify Cases
• Ability For Instructor to Monitor Client’s Session for Evaluation
• Simulation of Actual Patient Interactions
• jcn is Hot
Explanation of Structure
Structure – High Level

Client

Web Browser (3.0+)
- Netscape/IE

Server

Apache with C++
CGI scripts and
mySQL interface
Structure - Server

Diagram showing the structure of the server:

- **Index.html**: Login - username, password, Start
- **A New Session**: Initialize SessionID, Case Listing
- **B Main Menu**: Brief History - Options: - risk questions (C), - physical exam (D), - tests (E), - diagnosis (F)
- **C Risk Questions**: Server gets: - SessionID, - Question. Determine "Correct" answer to question. Write Q/A to database. Send answer & SessionID back to client (HTML)
- **D Physical**: care/Deploy/physical/ index.html Dynamically change this in the index html file
- **E Tests**: care/Deploy/Tests/ index.html Dynamically change this in the index html file
- **F Diagnosis**: care/Deploy/Diagnosis/ index.html Dynamically change this in the index html file

Database... mmm... Donuts
Ben’s Cool Text Stuff

- Ben is the only one who knows anything about this – so, he will talk now.
Sample Case

“Roger” Has the Flu

Take Us There
Questions and Answers
Thanks, RBB, For Being Such A Darn Good Sport