

MICHIGAN STATE
UNIVERSITY

Alpha Presentation

Learning Activity Capture

The Capstone Experience

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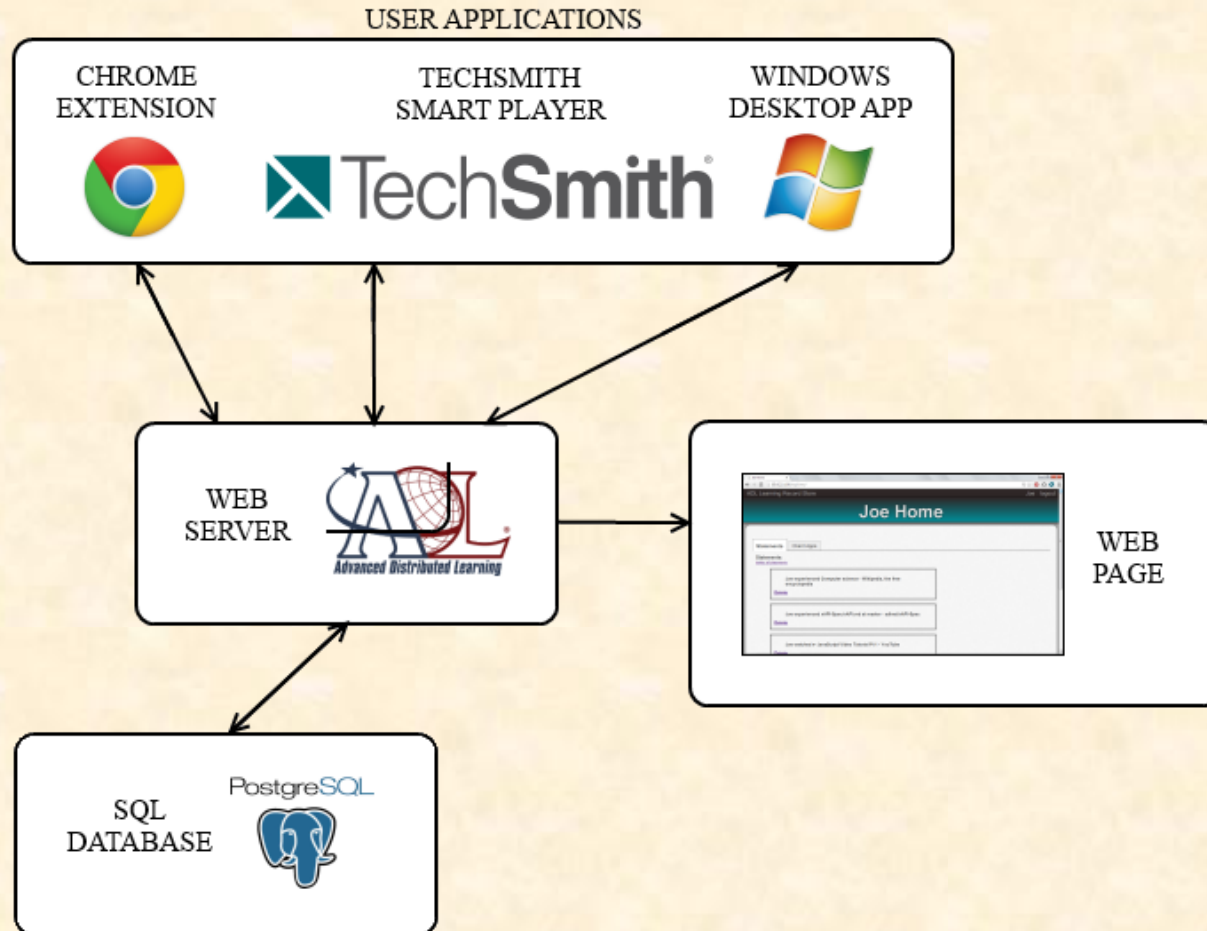
*From Students...
...to Professionals*

Project Overview

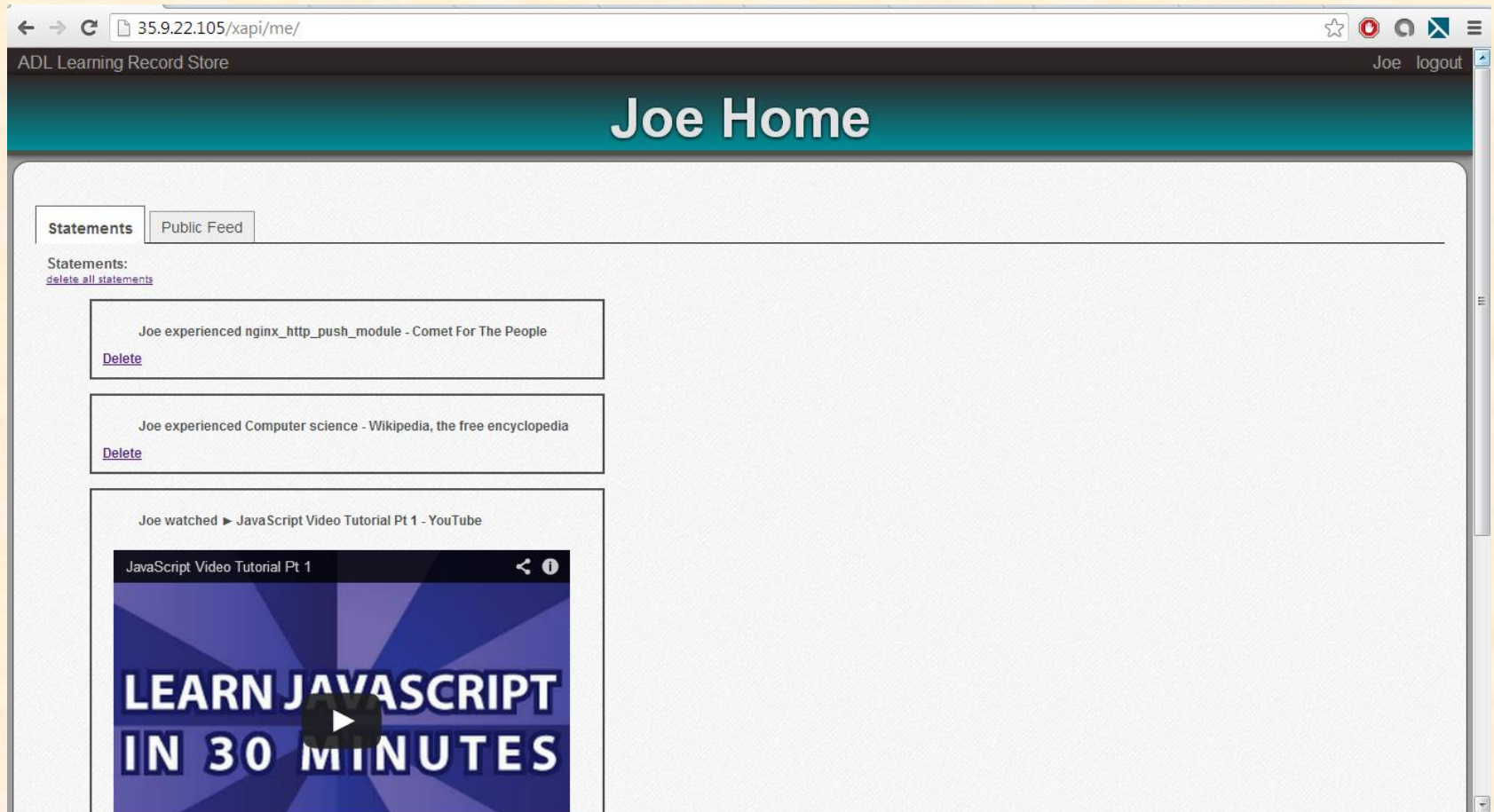
- Learning Activity Capture
- Record Online & Offline Learning Experiences
- Store Data in ADL Learning Record Store (LRS)
- Three Main Interfaces
 - Chrome Extension
 - Desktop App
 - TechSmith Smart Player



System Architecture



Webpage



Chrome Extension

The screenshot shows a Chrome browser window with the address bar displaying "en.wikipedia.org/wiki/Computer_science". The page content includes the Wikipedia logo, navigation links, and the main article text. A "Learning Activity Capture" extension is overlaid on the right side of the page, featuring a green header, "Send" and "Log Out" buttons, and a "Goto Website" link. The article text defines computer science as a scientific and practical approach to computation and its applications, and lists various subfields like computational complexity theory and programming language theory. A table of contents is also visible, listing sections from History to Computational science.

W Computer science - Wikip x

en.wikipedia.org/wiki/Computer_science

Article Talk

Computer science

From Wikipedia, the free encyclopedia

Computer Science (abbreviated **CS** or **CompSci**) is the **scientific** and practical approach to **computation** and its applications. It is the systematic study of the feasibility, structure, expression, and mechanization of the methodical processes (or algorithms) that underlie the acquisition, representation, processing, storage, communication of, and access to information, whether such information is encoded in bits and bytes in a computer memory or transcribed engines and protein structures in a human cell.^[1] A **computer scientist** specializes in the theory of computation and the design of computational systems.^[2]

Its subfields can be divided into a variety of theoretical and practical disciplines. Some fields, such as **computational complexity theory** (which explores the fundamental properties of **computational problems**), are highly abstract, while fields such as **computer graphics** emphasize real-world visual applications. Still other fields focus on the challenges in implementing computation. For example, **programming language theory** considers various approaches to the description of computation, whilst the study of **computer programming** itself investigates various aspects of the use of **programming language** and **complex systems**. Human-computer interaction considers the challenges in making computers and computations useful, usable, and **universally accessible** to humans.

Contents [hide]

- History
 - 1.1 Major achievements
- Philosophy
 - 2.1 Name of the field
- Areas of computer science
 - 3.1 Theoretical computer science
 - 3.1.1 Theory of computation
 - 3.1.2 Information and coding theory
 - 3.1.3 Algorithms and data structures
 - 3.1.4 Programming language theory
 - 3.1.5 Formal methods
 - 3.2 Applied computer science
 - 3.2.1 Artificial intelligence
 - 3.2.2 Computer architecture and engineering
 - 3.2.3 Computer graphics and visualization
 - 3.2.4 Computer security and cryptography
 - 3.2.5 Computational science



TechSmith Smart Player

The screenshot shows a web browser window with the URL `35.9.22.105/xAPI/me/`. The page title is "ADL Learning Record Store" and the user is logged in as "Joe". The main heading is "Joe Home". There are two tabs: "Statements" (selected) and "Public Feed". Under "Statements", there is a link "delete all statements". Below this, there are five statement cards, each with a "Delete" link:

- Joe Completed testProject - Second
Score: 100%
- Joe Completed testProject - New Quiz
Score: 60%
- Joe experienced Computer science - Wikipedia, the free encyclopedia
- Joe experienced xAPI-Spec/xAPI.md at master - adlnet/xAPI-Spec
- Joe watched ▶ JavaScript Video Tutorial Pt 1 - YouTube

The screenshot shows a video player interface with a quiz overlay. The video is titled "Camtasia: mac" and is playing a segment about "Auto Body Parts". The quiz question is:

Second 1 of 1

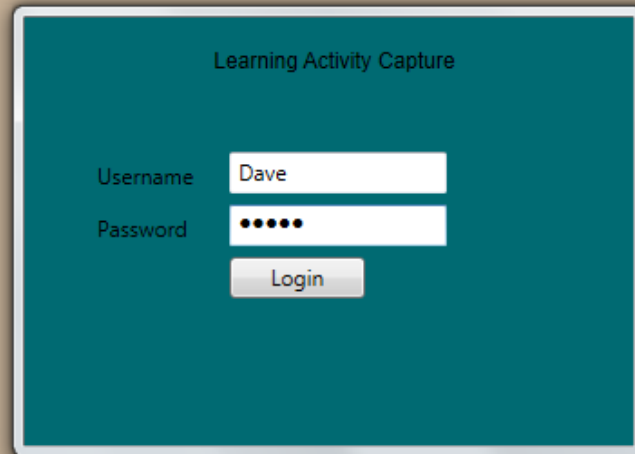
1) Is this the second Quiz?

- True
- False

Submit Answers

The video player shows a progress bar at 00:16 / 00:19.

Desktop Application



The screenshot shows a login window with a teal background. At the top center, the text "Learning Activity Capture" is displayed. Below this, there are two input fields: "Username" with the text "Dave" and "Password" with five black dots. A "Login" button is positioned below the password field.

Learning Activity Capture

Username Dave

Password ●●●●●

Login



What's left to do?

- Website Formatting/Organization
 - Group Activities By Verb/Object Type
 - Public Feed And Searching
- .NET Application
 - File Information
 - Broaden Recognized Program Support
- Smart Player Quiz Totaling
 - Auto-Group Question Sets
 - Handle Partial Quizzing

