

**MICHIGAN STATE**  

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**U N I V E R S I T Y**

# Alpha Presentation

## Enterprise Learning Activity Capture

### The Capstone Experience

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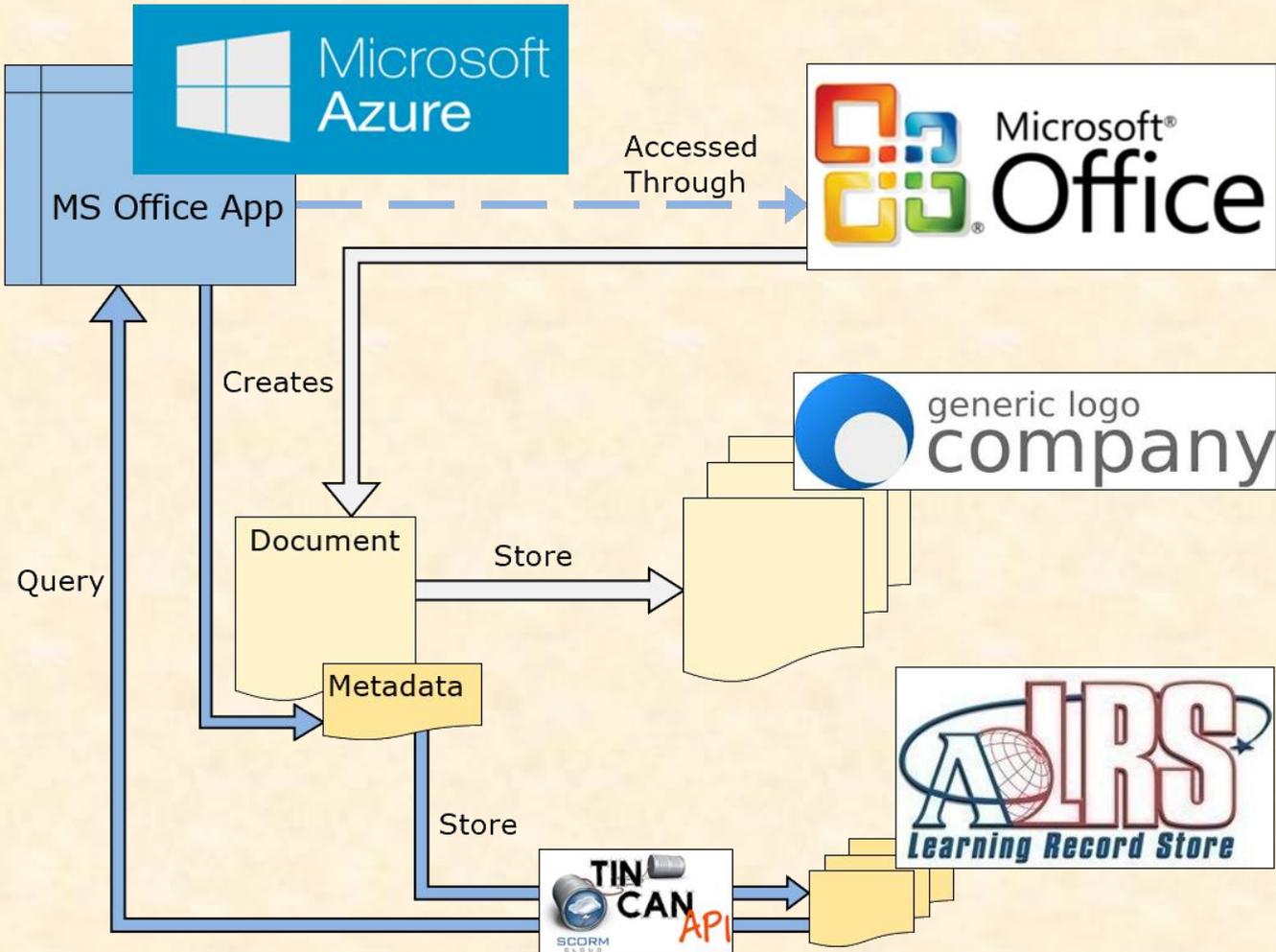
*From Students...  
...to Professionals*

# Project Overview

- Functionalities
  - Automatically track digital learning company-wide
  - Store learning records in a queryable database
  - Interfaced entirely through MS Office task pane app
- Features
  - Automatically store data about the document's readers
  - Search the database by user/date/document/author
  - Visualization of readership data
- Technologies
  - ADL Learning Record Store
  - TinCan API
  - Microsoft Office task pane application



# System Architecture



# Taskpane App

The screenshot shows a Microsoft Excel spreadsheet with a taskpane overlay on the right. The taskpane is titled "ELACWPE" and features the TechSmith logo. It includes a search bar, tabs for "Search", "Design", "Data", and "Current", and a list of search results. The results table has columns for "User", "Date", "Document", and "Author".

User	Date	Document	Author
test	2015-02-22		Unknown
test	22T01:56:58.512Z	Book1	Author
test	2015-02-22	22T01:56:41.083Z	Book1
test	2015-02-22	21T22:11:34.612Z	Book1
test	2015-02-22	21T22:11:24.214Z	Book1
1	2015-02-22	21T22:10:12.485Z	Book1
1	2015-02-22	21T21:33:48.473Z	Book1
1	2015-02-22	21T21:33:10.711Z	Book1
1	2015-02-22	21T21:17:59.344Z	Book1
1	2015-02-22	21T21:16:57.472Z	Book1
1	2015-02-22	21T21:16:38.143Z	Book1
1	2015-02-22	21T21:16:07.650Z	Book1
1	2015-02-22	21T21:12:32.163Z	Book1
1	2015-02-22	21T21:11:13.647Z	Book1
1	2015-02-22	21T21:10:21.716Z	Book1
1	2015-02-22	21T21:09:40.482Z	Book1
1	2015-02-22	21T21:08:58.267Z	Book1
1	2015-02-22	21T21:06:41.521Z	Book1
1	2015-02-22	21T21:04:54.052Z	Book1
1	2015-02-22	2015-02-22	Unknown

# Login Screen

ELACWPE



Username

Password

Login



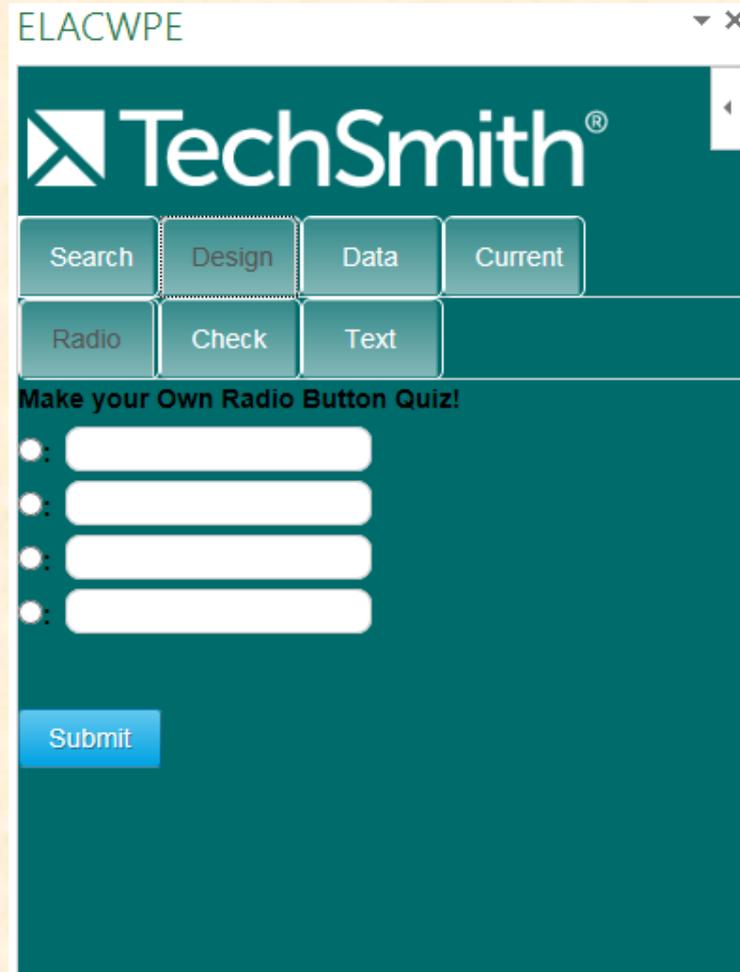
# Search Panel

ELACWPE

User	Date	Document	Author
	2015-2-22		
test	2015-02-22T01:56:58.512Z	Book1	Unknown Author
test	2015-02-22T01:56:41.083Z	Book1	Unknown Author
test	2015-02-21T22:11:34.612Z	Book1	Unknown Author
test	2015-02-21T22:11:24.214Z	Book1	Unknown Author
1	2015-02-21T22:10:12.485Z	Book1	Unknown Author
1	2015-02-21T21:33:48.473Z	Book1	Unknown Author

# Quiz Design

ELACWPE



The screenshot shows a web application window titled "ELACWPE". The header features the TechSmith logo. Below the logo is a navigation menu with buttons for "Search", "Design", "Data", and "Current". A secondary row of buttons includes "Radio", "Check", and "Text". The main content area is titled "Make your Own Radio Button Quiz!" and contains four radio button options, each followed by a text input field. A "Submit" button is located at the bottom left of the form area.

TechSmith®

Search Design Data Current

Radio Check Text

**Make your Own Radio Button Quiz!**

:

:

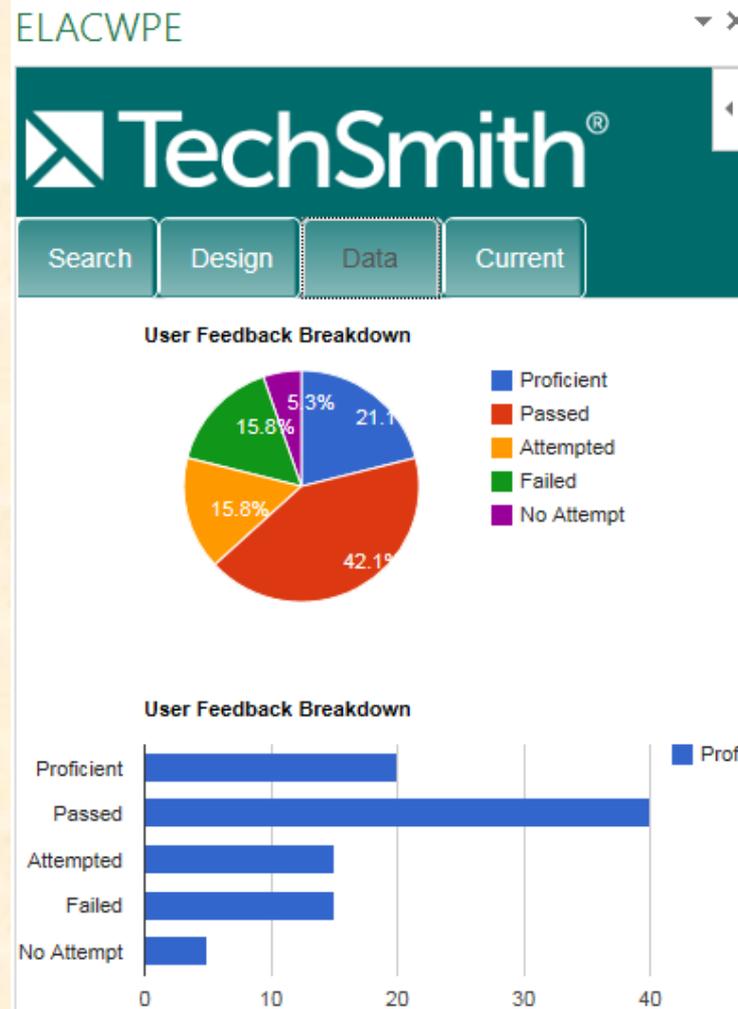
:

:

Submit



# Quiz Results



# LRS Opening Screen

ADL LRS 1 logout

## Welcome to the ADL Learning Record Store

EXPERIENCE API

This Learning Record Store (LRS) is a reference implementation of an LRS as described in the [Experience API Specification](#).

**Current LRS Stats**

Users	Statements	Agents	Verbs	Activities
7	68	7	7	25

### Sign up

Sign up for HTTP Basic Credentials  
Create a username and supply an email address with it

[Register](#)

### Github Examples

Visit our GitHub prototype page to find some of the updated 1.0.1 prototypes. These prototypes can be configured to report to an LRS. See the [Readme](#) for more information.

[GitHub Prototypes](#) [Launch](#)

### Statement Validator

Want to make sure your statement is valid?  
Check it here.

[Validator](#)



# LRS Records



ADL LRS

Statements

Activities

OAuth Client Apps

OAuth Access Tokens

OAuth2 Client Apps

OAuth2 Access Tokens

**Statements:** [Delete all statements](#)

**1 Learned Book1**

2015-02-22T18:33:59.413000+00:00

e299bb69-2f28-49f2-a469-c525bda9be08

**1 Read Book1**

2015-02-22T18:33:58.241000+00:00

11cd30cf-fde7-4dcf-9132-c991ec991834

**1 Launched Book1**

2015-02-22T18:30:20.322000+00:00

69de3875-e011-4f4d-ad52-770b0731d7fa



# LRS Record (Expanded)

## 1 Learned Book1

2015-02-22T18:33:59.413000+00:00

e299bb69-2f28-49f2-a469-c525bda9be08

```
{
  "verb": {
    "id": "http://adlnet.gov/expapi/verbs/Learned",
    "display": {
      "en-US": "Learned"
    }
  },
  "version": "1.0.0",
  "timestamp": "2015-02-22T18:33:59.413Z",
  "object": {
    "definition": {
      "name": {
        "en-US": "Book1"
      }
    },
    "id": "C:\\Users\\Team TechSmith\\Source\\Repos\\elac-wpe-techsmith\\ELACWPE\\bin\\Debug\\Book1.xlsx",
    "objectType": "Activity"
  },
  "actor": {
    "mbox": "mailto:1",
    "name": "1",
    "objectType": "Agent"
  },
  "stored": "2015-02-22T18:33:57.453240+00:00",
  "authority": {
    "mbox": "mailto:a@a.com",
    "name": "1",
    "objectType": "Agent"
  },
  "id": "e299bb69-2f28-49f2-a469-c525bda9be08"
}
```



# What's left to do?

- Features
  - Better organization of search results output
  - Port to MS Outlook
  - Implement reader feedback (“quizzes”)
  - Data visualization
  - Hierarchy Storage
- Documentation
  - Input formatting
  - Initial setup instructions
  - Source code
- Comprehensive testing

