

CS 3604 Case Study Library

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CS4624: Multimedia,
Hypertext, and Information
Access
Instructor: Dr.Fox

Blacksburg VA 24061, 05/07/2022

Outline

- Project Overview
- What we currently have
- Progress Updates
 - Deployment
- In Progress
- OKRs Review
- Future Work

Project Overview

Submission & Presentation platform for CS3604 Projects

- Support for over 500 student submissions per semester
- Search and categorization based on:
 - Category
 - Date
 - Presentation Title

Filter My Results

Category »

- Ethics
- Intellectual Property
- Privacy
- Commerce
- Internet
- Artificial Intelligence

Date »

2018 2020 2022

Tags

What we currently have

- Archival Submission Data
- Deployed VT-DLP on custom Domain
 - <https://casestudies.cs.vt.edu>
- Our own AWS account
- Python script for mass uploading.

☰ README.md

VTDLP Access Website

A Multi-Tenant Serverless Website built with GraphQL, React, AWS Amplify, AWS AppSync, DynamoDB, and OpenSearch. This project is part of the [Virginia Tech Digital Library Platform \(VTDLP\)](#). We used this software to host several Virginia Tech University Libraries digital collections, see showcase below.

We also have a [Live Demo](#) site.

Project Showcase

- [HOKIES@HOME](#)
- [International Archive of Women in Architecture \(IAWA\)](#)
- [Southwest Virginia Digital Archive](#)

Features

- Full-text search and configurable faceted search
- Supports multiple viewers
 - Mirador viewer

• HTML5 audio, video, and image player

Progress Updates: Deployment

- Retrieved the custom domain name from TechStaff
- Worked with Dr.Chen to address the issues related to uploading content onto the website
- Got a permanent AWS Account
 - Redeployed existing site onto the new AWS account
 - Working on updating the custom domain to point to the site on the new AWS account

- HOME
- BROWSE COLLECTIONS
- SEARCH
- PERMISSIONS



Professionalism In Computing

Search by keyword, title, description

Title 



CS 3604 Case Study Library

This website acts as a submission & presentation platform for CS3604: Professionalism in Computing Projects. Students are able to view and upload presentations for their specified sections.

[View All Items](#)

[View All Collections](#)

Data Migration

- Archived project repository
 - ~3 GB of historical project submissions
 - Sorted by semester and labeled with student names
 - Python Script unzip and mass upload the files
 - Categorize Files



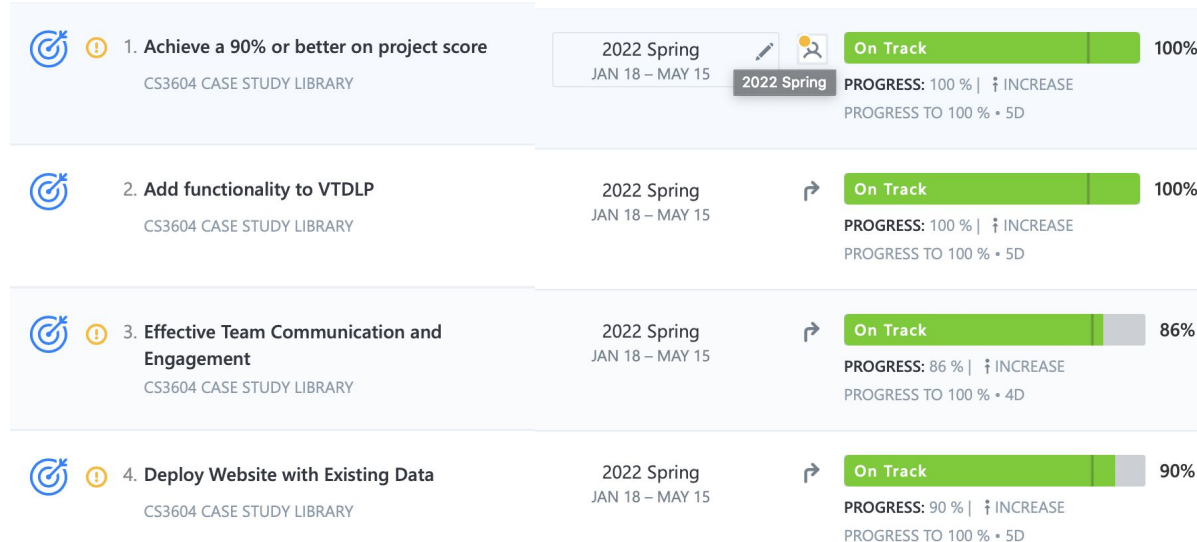
Data Migration

- Upload data using a script that modifies the JSON Item template and uploads it to AWS DynamoDB

```
1
2   "id": "test1",
3   "__typename": "Archive",
4   "creator": [
5     "Demo"
6   ],
7   "modified_date": "2020/03/23 22:46:09",
8   "heirarchy_path": [
9     "692555a6-c794-11ea-87d0-0242ac130003"
10  ],
11  "identifier": "test1",
12  "visibility": true,
13  "manifest_url": "https://www.obfp.vt.edu/content/obfp_vt_edu/en/index/_jcr_content/cta/adaptiveimage.transform/m-medium/image.jpg",
14  "createdAt": "2020-03-23T22:46:09.000Z",
15  "source": [
16    "<a href=\"https://www.obfp.vt.edu/\">Office of Budget and Financial Planning</a>."
17  ],
18  "item_category": "Default",
19  "language": [
20    "en"
21  ],
22  "create_date": "2020/03/23 22:46:09",
23  "parent_collection": [
24    "692555a6-c794-11ea-87d0-0242ac130003"
25  ],
26  "custom_key": "ark:/53696/m58xyh90",
27  "start_date": "2017/03/23",
28  "updatedAt": "2021-06-02T16:15:24.128Z",
29  "description": "Static image demo <a href=\"https://www.vt.edu/\">VT</a>",
30  "thumbnail_path": "https://www.obfp.vt.edu/content/obfp_vt_edu/en/index/_jcr_content/cta/adaptiveimage.transform/m-medium/image.jpg",
31  "title": "Office of Budget and Financial Planning"
32
```


OKR Review

- Emphasize Agile Software Development Lifecycle
- Utilize sprint planning to complete milestones



Future Work

- Testing
- Maintain the AWS account
- Students to upload directly on the website

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Yinlen Chen, Lee Hunter, Tingting Jiang,
Andrea Waldren (2021)

Edward Fox³: Virginia Tech, Dept.
Computer Science, Advisor -> CS4624
Professor

¹ <https://vt.academia.edu/DanielDunlap>

² <https://github.com/vtul/dlp-access>

³ <https://fox.cs.vt.edu/foxinfo.html>

References

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