AggieSTEM Library Final Report

Team NewBee

May 2020

Project Summary

AggieSTEM Library is a website that manages user access to dataset files. Users may submit a dataset request to the website, and the administrator decides whether the request is accepted or declined. With approval, users may gain access to a dataset file hosted on the server. A search function is provided to the user to efficiently find the target file. They may preview dataset files online, or download to their local disk. On requests for dataset files not available on the server, administrators may upload the files through a portal, which are kept track of by the server database. Users may also follow the progress by checking out a history page that collects all their past requests and status updates.

Team Roles

- Scrum Master: Luming Xu
- Product Owner: Gehao Yu

Team Member Name	**Email**
Luming Xu	xuluming@tamu.edu
Yuchen Jiang	yuchen.jiang@tamu.edu
Yuhan Cheng	chengyh971030@tamu.edu
Gehao Yu	gary19961231@tamu.edu
Yu Shen	shenyu.tcv@tamu.edu
Xinpu Liu	liuxinpu16@tamu.edu

User Stories

1. ### Dataset Query (Iteration 1)

   As a user granted access with multiple data files,
   So that I can find the target data efficiently,
   I want to **search** for data by its name.

2. ### Online File Preview (Iteration 2)

   As a user with access to a certain data file,

So that I can see if the data is what I am looking for,
I want to **preview** the data on the website. (table, pdf, image, text support)

3. Server File Storage (Iteration 3)

   As an administrator of the website,
   So that I can assign dataset files to users that filed in a request,
   I want to **upload** files to the server.

4. Online Request Process (Iteration 4)

   As an administrator of the website,
   So that I can **process** user requests for data access,
   I want to make accept/decline decisions online based on data request forms.

5. Data Request Form Update (Iteration 4)

   As a user who has possibly filed in **multiple** user requests,
   So that I can keep track of all the records,
   I want to easily check for status update on each request

6. Test Coverage (Iteration 1-4)

   As a test engineer,
   So that I could test new versions in the future,
   I want to **read** a test case of existing functions to see if any bugs have happened.

Iteration Progress History

Iteration 0

We met with the customers, Professor Capraro, along with the previous developer Donald Beyette, to get down to the project and make clear of the features that are most needed to the website. We also drew Lo-Fi user interfaces, and sketched several user stories.
Meeting date: Feb. 24, 2020, at Prof. Capraro's office.

Iteration 1

We wrote several tests to familiarize with the legacy project, also to set up a baseline of the existing features. A dataset query feature is implemented.

Iteration 2

An online file preview feature is added that supports multiple file formats. We demonstrated the currently available features to the customers, and they gave quite positive feedback.
Meeting date: March 24, 2020, via Zoom

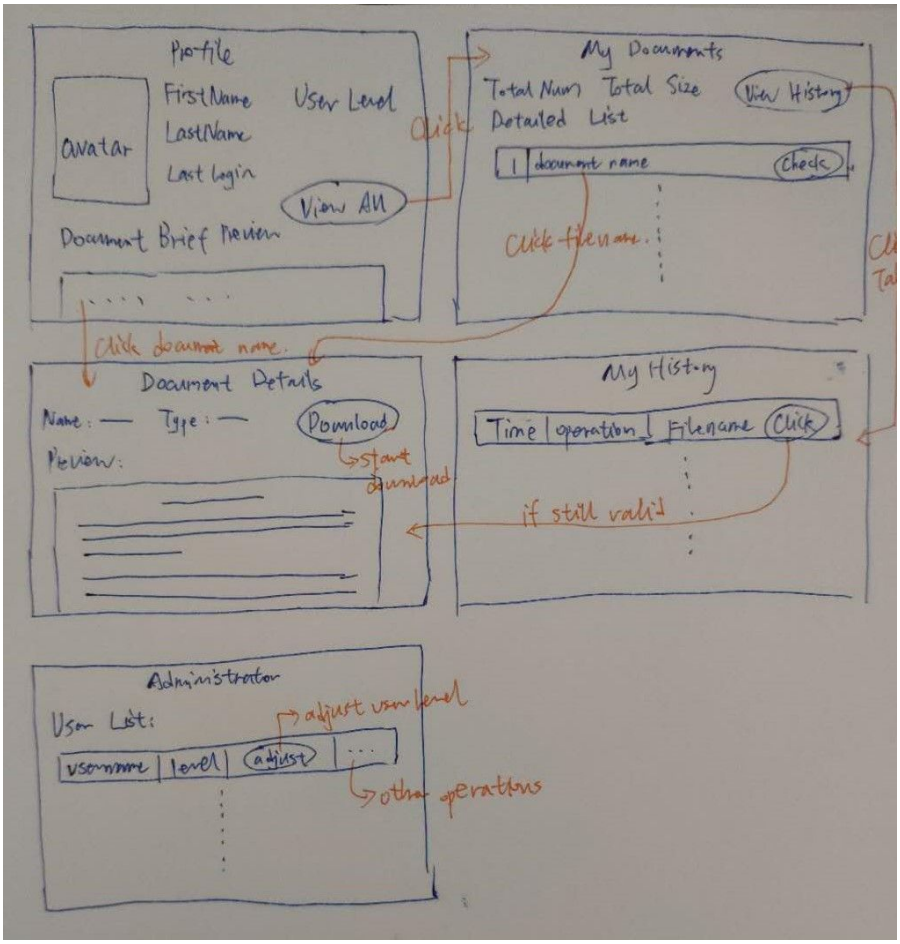
Iteration 3

A upload portal and file database are set up on the server, which prepares for the online process of data requests. Several tests are added to make sure of correct feature behavior.
Meeting date: April, 4, 2020, via Zoom

Iteration 4

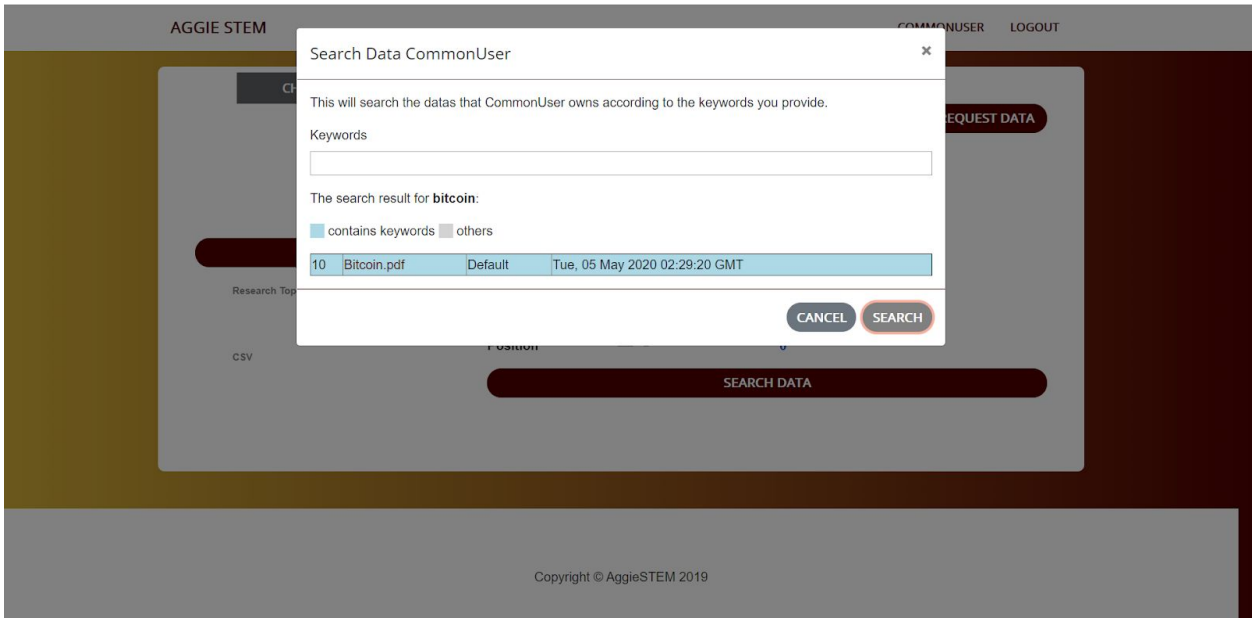
An online request process feature is fully implemented. Administrators now can handle data requests online, and assign dataset files access to users.
Meeting date: April 23, 2020, via Zoom

Lo-Fi UI

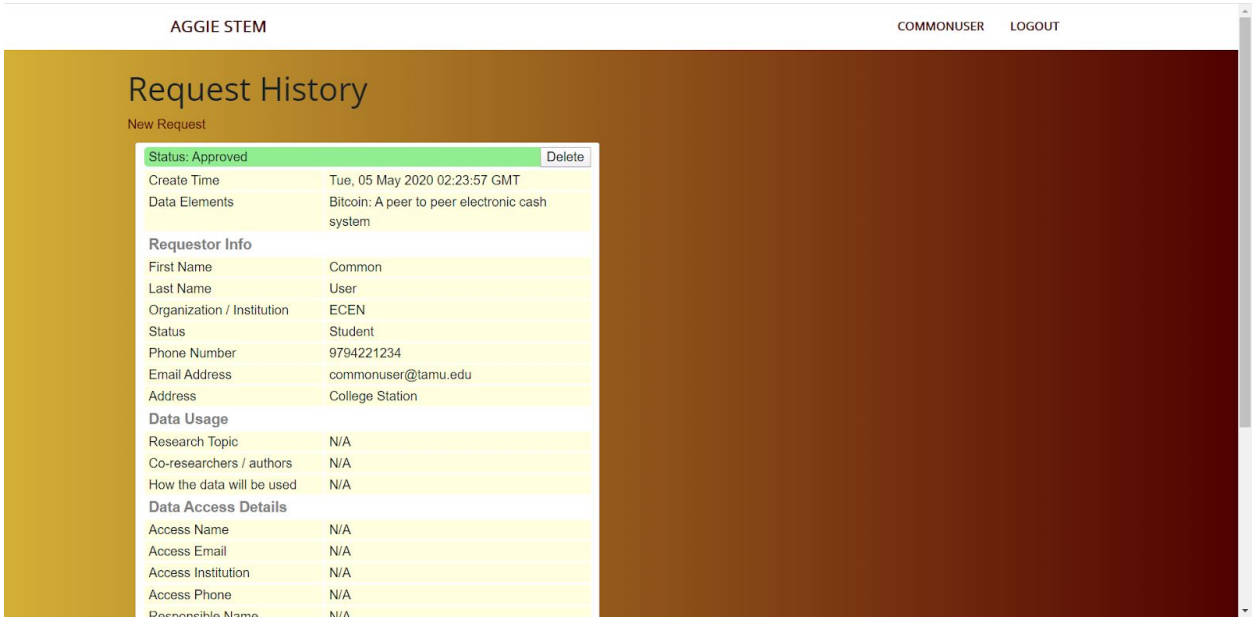

Profile
Avatar
FirstName
LastName
Last login
User Level
View All
Document Brief Review
Click
My Documents
Total Num
Total Size
View History
Detailed List
1
document name
Check
Click filename.
Click document name.
Document Details
Name: —
Type: —
Download
Preview:
start download
My History
Time
operation
Filename
Click
if still valid
Administrator
User List:
adjust user level
username
level
adjust
...
other operations

Screen Captures of New Features

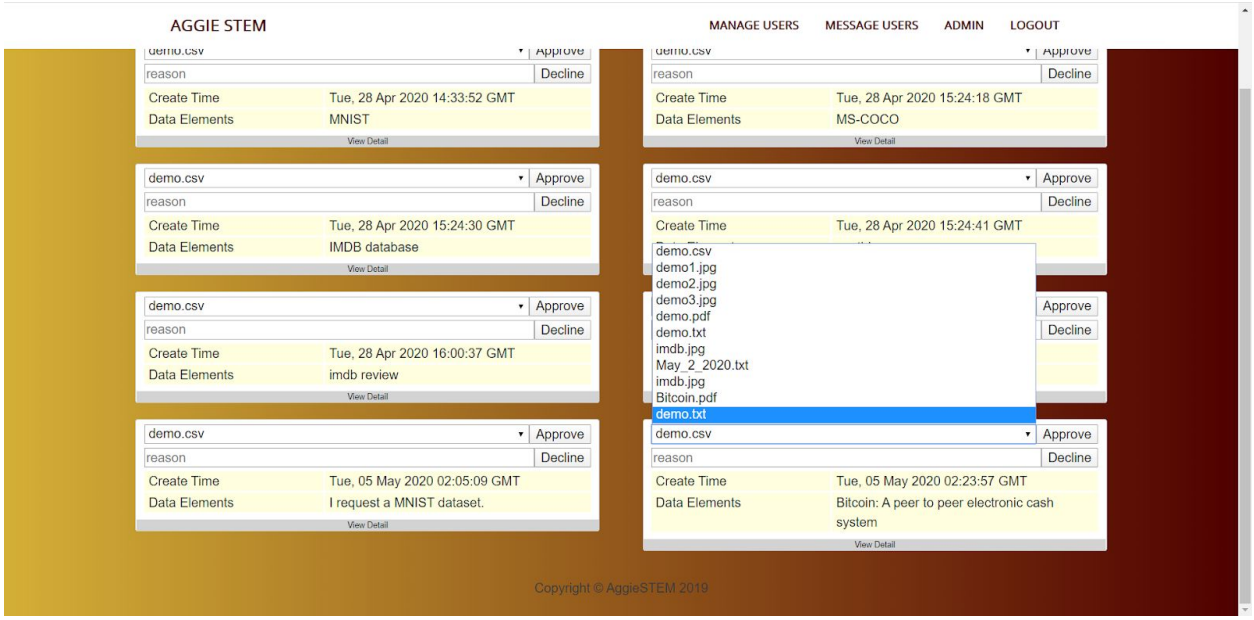
File Search



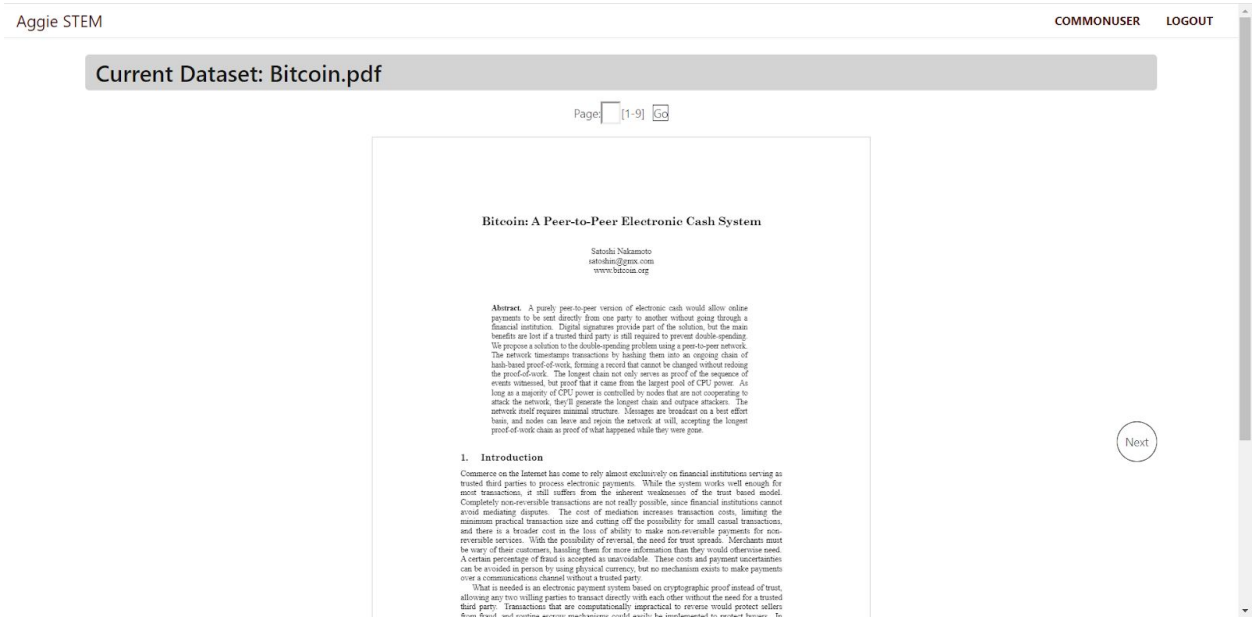
Request History



Request Process Portal



File Online Preview



Legacy Project Summary

We have received timely support from the legacy project developer Donald Beyette during the development within this semester. Much thanks to DJ for his effort.

The legacy project has implemented user sign up and log in features. Two user groups, admin and common user are set up, and the website contains reactive front-end styles. A data request form submission page is also provided for the common users.

Link to legacy code repo:
https://github.com/unkown512/AggieSTEM-DL-PRODUCTION/tree/42c2746256aeaae348648935b144cf967d425a92