

SE 606 Project Design Document

· AGGIESTEM DIGITAL LIBRARY ·

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Motivation

AggieSTEM digital Library.

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October 1, 2019

- Organize a collection of hard copy data from audio, video, PDF, text, and images into a digital library. Create admin and basic users to share and organize their own personal library or global library (admin). In addition to the digital library, create a secure message system for the admins to send out information to users phones (as text).

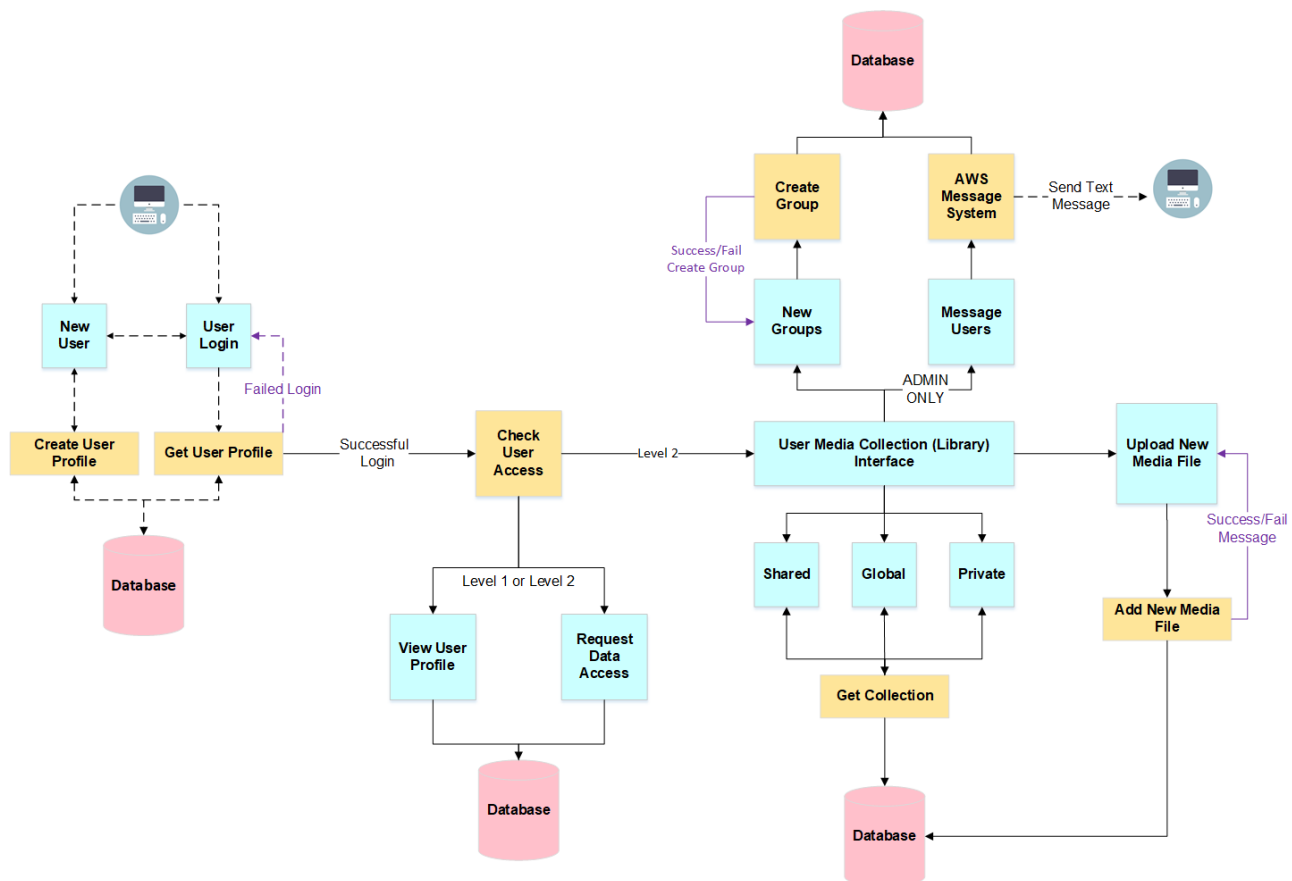
Overview

Draft V1.0

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- Create a data base that stores user data and profiles for quick and easy access through a user media interface. Allow users to create new media files and insert into data base. Admin message system (similar to code maroon)



Model Pink diagrams: Create tables in MongoDB/MySQL to organize and query user profiles and data.

Viewer Blue diagrams: Front end environment for login, viewing, searching, and sharing data with other users.

Controller Beige diagrams: Process the HTTP request from the viewers.

System Features

User Login

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VIEW TEAM

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- Login with username and password.
- Forgot username or password
- Redirect to new user view
- Send HTTP request to get ser profile controller

New User

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VIEW TEAM

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- Create username and password
- Check for proper input
- Send HTTP request to create user profile controller
- Redirect to new user view

View User Profile

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- View user level access
- View associated groups
- Display user information such as username

User Media Collection (Library)

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- View shared media collection.
- View global media collection.
- View private media collection.
- Link to upload new media file view.
- Link to create/manage new groups
- Link to message users if admin
- Search bar
- Filter options such as date, group, and type

Shared Library

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- Display any data that is shared with this user
- send HTTP request to get collection controller

Global Library

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- Display any data that is available to all users with this user
- send HTTP request to get collection controller

Private Library

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- Display any data that is only visible by this user with this user
- send HTTP request to get collection controller

Upload New Media File

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- Upload PDF, image, text, video, or audio document.
- Create tags or labels for the database indexing.
- Upload button with success or fail response.

Message Users

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VIEW TEAM

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- Admin only page!!
- Send out messages to specific groups and times.
- Select groups to send information to
- Select individual users to send information to
- Select groups and individual users to send information to
- Send HTTP request to AWS message system controller

New Groups

VIEW TEAM

- Create new group name
- Add users to existing or new group
- Send HTTP request to create group controller

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Request Data Access

VIEW TEAM

- Display form for requesting data
- Description box to explain why this data is required
- Send HTTP request to controller (TBA)

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Get User Profile

CONTROLLER TEAM

- Save new user and password information with Encryption with SHA512, Argon2, Bcrypt, PBKDF2, or Scrypt
- validate user and password information.
- Return success or failure: Redirect on success to User Media Collection view

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Create User profile

CONTROLLER TEAM

- Receive HTTP request new user view
- Generate salt and hash for user private information
- Send information to the database

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Create Group

CONTROLLER TEAM

- Receive HTTP request from new groups
- Check user input for valid data
- Send information to database to store new group information

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Get Collection

CONTROLLER TEAM

- Receive HTTP request from shared, global, or public view.
- Query relative data from the database and return to view.

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AWS Message System

CONTROLLER TEAM

- TBA..Is done by amazon directly
- Format text message to send to amazon
- Get NGROK number
- Get user numbers for amazon unless they manage it for us

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Database

MODEL TEAM

- Manage data for each users data, logic and rules of the BMS system.
- Create tables for organizing user data
- Cache system for quick lookup.
- Ranking system to return a listing of most relative media files.

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Project Time-line

FIRST QUARTER

TBA **TBA**, TBA

SECOND QUARTER

TBA **TBA**, TBA

THIRD QUARTER

TBA **TBA**, TBA

FOURTH QUARTER

TBA **TBA**, TBA