

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).

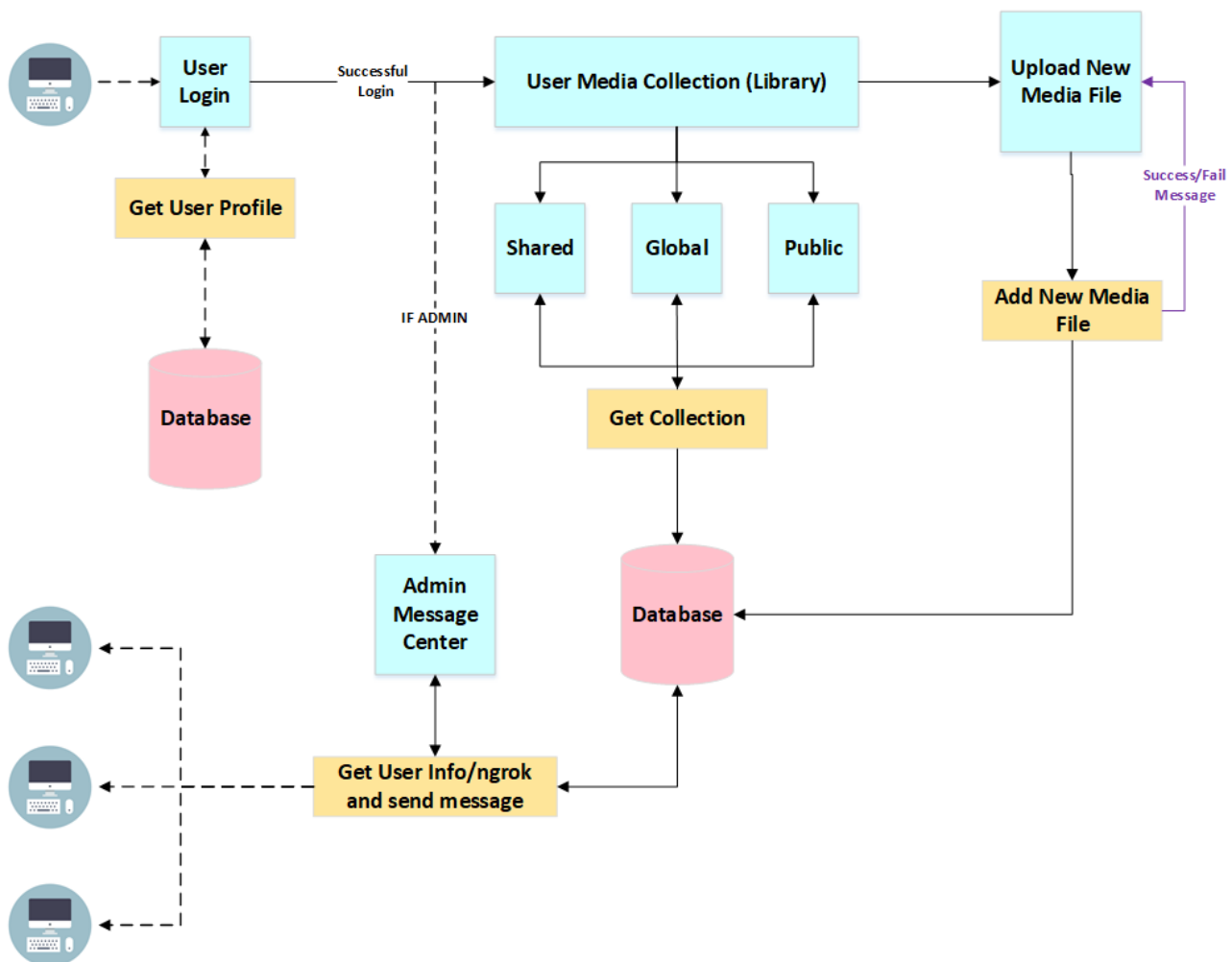
Overview

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

VIEW TEAM

- Register a new user.
- Login with username and password.
- Forgot username or password

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User Media Collection (Library)

VIEW TEAM

- View shared media collection.
- View global media collection.
- View personal media collection.
- Create new media file.

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Upload New Media File

VIEW TEAM

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

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Admin Message Center

VIEW TEAM

- Admin only page!!
- Send out messages to specific groups and times.
- Encryption with SHA512, Argon2, Bcrypt, PBKDF2, or Scrypt
- NGROK

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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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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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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