

Ampact

Sprint 2 System Design Document

Team InsertNameHere
Luoliang Cai
David Tan
Lara Kristine Gomez
Christopher Suh
Raymond Ma
Hui Zhi

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Frontend CRC Cards

Class Name: App	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Manages the routing for the frontend web app	Collaborators React React Router Landing Login Registration authService GroupProfile GroupProfileEdit GroupProfileCreate DefaultPage Browse

Class Name: Landing	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders the landing page of the app	Collaborators React Router DefaultPage

Class Name: Login

Parent Class (if any):
Subclasses (if any):

Responsibilities

• Renders the login page for the application

Collaborators

• Controller

• authService

Class Name: Registration	
Parent Class (if any): Subclasses (if any):	
Responsibilities	Collaborators

application authService Class Name: UserProfile Parent Class (if any): Subclasses (if any): Responsibilities **Collaborators** • Renders the profile page for the Controller application DefaultPage UserPage Class Name: NavBar Parent Class (if any): Subclasses (if any): **Collaborators** Responsibilities Renders the navigation bar for the authService application Class Name: DefaultPage Parent Class (if any): Subclasses (if any): Collaborators Responsibilities • Renders universal UI elements for the NavBar application Class Name: Browse Parent Class (if any): Subclasses (if any): Responsibilities **Collaborators** Renders uploaded videos for the VideoTagSection

VideoPreview

Controller

Renders the registration page for the

application

	DefaultPage controller	
Class Name: authService		
Parent Class (if any): Subclasses (if any):		
Responsibilities • Handles the user login, signout, and register after calling the backend	Collaborators	
Class Name: controller		
Parent Class (if any): Subclasses (if any):		
Responsibilities Sends HTTP requests to the backend and processes the response and errors	Collaborators	
Class Name: Groups		
Parent Class (if any): Subclasses (if any):		
Responsibilities Displays the group name and bio in a small area	Collaborators	
Class Name: Group		
Parent Class (if any): Subclasses (if any):		
Responsibilities • Adds and removes members of the group	Collaborators • controller	
Class Name: GroupsList		
Parent Class (if any): Subclasses (if any):		

Class Name: GroupProfile	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Display's the group's profile	Collaborators

Collaborators

Responsibilities
Displays other groups in a list

Class Name: GroupProfileCreate	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Sends HTTP requests to the backend and processes the response and errors	Collaborators

Class Name: GroupProfileEdit	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders the page to edit a group	Collaborators

Class Name: GroupMember	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Shows a member's name and role in a group	Collaborators

Class Name: GroupMemberList	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Shows a the list of a group's members	Collaborators • GroupMember

Class Name: SingleVideoAdd	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders the page to add a video	Collaborators

Class Name: SingleVideoPage

Parent Class (if any):
Subclasses (if any):

Responsibilities

• Renders the page showing all videos

• VideoTagSection
• Controller
• authService
• DefaultPage

Class Name: VideoTagSection	
Parent Class (if any): Subclasses (if any):	
Responsibilities Renders video tags	Collaborators • controller

Class Name: VideoPreview

Parent Class (if any):

Subclasses (if any):	1
Responsibilities Renders a single video preview	Collaborators • VideoTagSection
Class Name: SearchUserProfiles	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders the page to where you can search users	Collaborators • controller
Class Name: UserPage	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders the user profile module	Collaborators •
Class Name: UserProfileEdit	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders edit user profile page	Collaborators
Class Name: UserProfileItem	
Parent Class (if any): Subclasses (if any):	
Responsibilities • Renders a single user profile	Collaborators •
·	

Class Name: UserProfileList	
Parent Class (if any): Subclasses (if any):	
Responsibilities Renders a list of user profiles	Collaborators • UserProfileItem

Backend CRC Cards

Parent Class (if any):

Class Name: Server Parent Class (if any): Subclasses (if any): Responsibilities **Collaborators** • Establishes connection with mongoDB UserSchema database ProfileSchema Set up and store login session Group Send session cookies to front end Video • Encrypt private user information Profile Login and register user Class Name: Group Parent Class (if any): Subclasses (if any): Responsibilities **Collaborators** Create group GroupSchema Edit information for group UserSchema • Retrieve group information from database Add and remove members from groups Class Name: Video Parent Class (if any): Subclasses (if any): Responsibilities **Collaborators** Add video information in database VideoSchema Retrieve video information using queries Class Name: Profile

Subclasses (if any):		
Responsibilities Save profile information for users Retrieve profile information from database Edit profile information from database	Collaborators • ProfileSchema	

Class Name: Search	
Parent Class (if any): Subclasses (if any):	
Responsibilities Search groups Search user profiles	Collaborators

Backend

Class Name: UserSchema		
Parent Class (if any): Subclasses (if any):		
Responsibilities Defines which collection to save group information Defines how queries are retrieved from the database for groups Defines how group data should be structured in database	Collaborators	

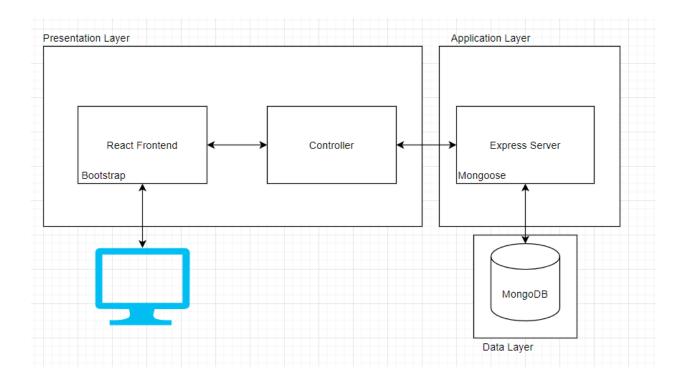
Class Name: VideoSchema	
Parent Class (if any): Subclasses (if any):	
Responsibilities Defines where to save video information Defines how queries are retrieved	Collaborators

Class Name: GroupSchema		
Parent Class (if any): Subclasses (if any):		
Responsibilities Defines which collection to save group information Defines how queries are retrieved from the database for groups Defines how group data should be structured in database	Collaborators	

Class Name: ProfileSchema		
Parent Class (if any): Subclasses (if any):		
Responsibilities Defines which collection to save entrepreneur information Defines what queries from entrepreneur database should contain Defines how entrepreneur data should be saved in database	Collaborators	

System Architecture

This application will be using the 3-tiered architecture.



React Frontend: The presentation layer. This will contain the user interface for the application

Controller: Contains all the API requests to retrieve data from the application layer for the frontend to call.

Express Server: Handles the logic of the API requests and returns a response or error to the frontend. Connected to MongoDB using Mongoose.

MongoDB: The data layer. Where all information is stored (User, Profiles, Groups, Images)