

Ampact

Sprint 2 System Design Document

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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	Collaborators • ProfileSchema

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

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

Class Name: VideoSchema		
Parent Class (if any): Subclasses (if any):		
Responsibilities Defines where to save video information Defines how queries are retrieved from the database for videos Defines how video data should be	Collaborators	

structured in database		
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

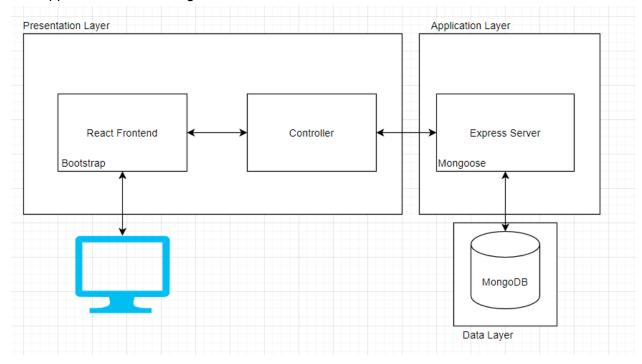
Parent Class (if any):
Subclasses (if any):

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

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)