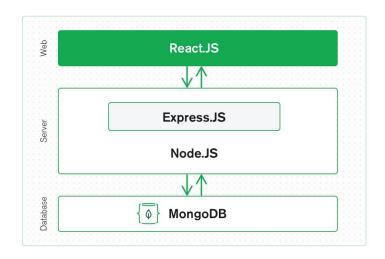
System Design Document CSCC01 Summer 2021 Team: Seal

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Software Architecture

For this project, we are using a 3-tier architecture setup, with React on the top as our Website, Express running on top of Node in the middle as our server and MongoDB as the bottom database layer.



SEAL-3: As a startup founder, I want to create a profile for my company, so that investors can learn about my company.

Class Name: createCompanyProfile

Parent Class: None Subclasses: None Responsibilities:

- * Allow users input text information regarding building company profile, including company title, tagline, description, and email address.
- * Allow users to upload images for the company logo.
- * Allow users to include links to external websites, such as Twitter and Facebook, by choice.
- * Allow users to include and link members of the company.
- * Pass user input into the database.

Collaborators: None

Class Name: editCompanyProfile

Parent Class: None Subclasses: None Responsibilities:

- * Request field of user input information stored in the database.
- * Allow the user to fill in the desired update on their respective company profile.
- * Pass user input into the database.

Collaborators: None

Class Name: myCompanyProfile

Parent Class: None Subclasses: None Responsibilities:

* Display required information in setting up the company profile. Fields include company title, tagline, description, email address, image upload (logo), external links, and members.

Collaborators: None

Class Name: createCompanyProfile

Parent Class (if any): None Subclasses (if any): None

Responsibilities:

- Allow users input text information regarding building company profile, including company title, tagline, description, and email address.
- Allow users to upload images for the company logo.
- Allow users to include links to external websites, such as Twitter and Facebook, by choice.
- Allow users to include and link members of the company.
- Pass user input into the database.

Collaborators:

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Class Name: editCompanyProfile

Parent Class (if any): None Subclasses (if any): None

Responsibilities:

- Request field of user input information stored in the database.
- Allow the user to fill in the desired update on their respective company profile.

Collaborators:

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Class Name: myCompanyProfile Parent Class (if any): None	
Subclasses (if any): None	
Responsibilities: • Display required information in setting up the company profile. Fields include company title, tagline, description, email address, image upload (logo), external links, and members.	Collaborators: •

• Pass user input into the database.

SEAL-1&2:

- As an unregistered user, I want to register for an account as a specific role(s), so that I may receive access to certain resources depending on my role(s).
- As a registered user, I want to login to my account, so that I can access the resources provided by the community.

Class Name: User Parent Class (if any): None Subclasses (if any): startupfounder, investor, instructor		
		Responsibilities:
• email	•	
password		
username		
posts		
comments		
date joined		
• role: sf, inv, ins		

Class Name:Startup Founder	
Parent Class (if any):User Subclasses (if any):	
Responsibilities:	Collaborators: •
Class Name:Investor	
Parent Class (if any): Subclasses (if any):	
Responsibilities: • Investor Page	Collaborators:
Class Name:Instructor	
Parent Class (if any): Subclasses (if any):	
Responsibilities:	Collaborators:
Class Name:Login.js	
Parent Class (if any): Subclasses (if any):	
Responsibilities: Take user inputs Send request to "/user/login" route for authentication Redirect to main post page if authentication success	Collaborators: users.js(route) (Main post page) select.js
Class Name:registration.js	

Parent Class (if any):

Class Name:select.js	
Parent Class (if any): Subclasses (if any):	
Responsibilities: • Login/Sign up selection	Collaborators: registration.js Login.js

SEAL-7: As a user, I want to watch pre-recorded content uploaded by teachers, so that I can watch them at my own pace.

Class Name: Course	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities:	Collaborators: • Video

Class Name: Video	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: • Stores information about the video	Collaborators:

Class Name: Video Player	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: • Displays video selected by the user	Collaborators: • Video

SEAL-4: As a user, I want to communicate with other members of the community, so that I can network and connect with other people.

Class Name: Posts Parent Class (if any): None Subclasses (if any): None	

Class Name: PostViewer

Parent Class (if any): None Subclasses (if any): None

Responsibilities:

- Retrieves data from database and configures Posts.
- Shows up to some amount of posts on the screen at a time.
- Navigate between pages to show more posts.
- Redirects user PostViewerSpecifc page when user clicks on post
- Add post to database

Collaborators:

- Post
- PostViewerSpecific
- PostWriter

Class Name: PostViewerSpecific

Parent Class (if any): None Subclasses (if any): None

Responsibilities:

- Displays the specified Post from PostViewer.
- Retrieves, configures, then displays comments from the database.
- Displays a specified number of comments and uses a page navigation to switch between all comments.
- Adds a comment to this post to the database

Collaborators:

- Post
- Comment
- CommentWriter

Class Name: PostWriter

Parent Class (if any): None Subclasses (if any): None

Responsibilities:

- Has textbox to write contents of post
- Has list of toggleable tags
- Has a submit button to add the post to the database.

Collaborators:

None

Class Name: CommentWriter	Class Name: CommentWriter	
Parent Class (if any): None Subclasses (if any): None		
Responsibilities:	Collaborators:	
 Has a textbox to write contents of post Has a submit button to add a 	• None	

comment to the database.