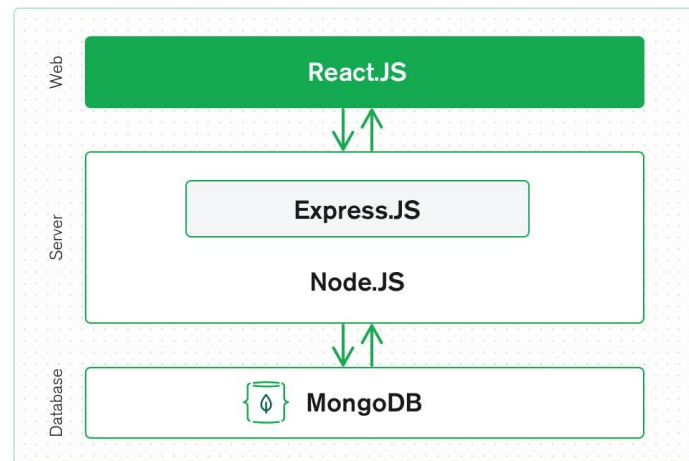


System Design Document  
CSCC01 Summer 2021  
Team: Seal

## Table of Contents

# 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-5: As a user, I want to be able to privately message other members of the community, so that I can talk to them privately.

Class Name: FriendList	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: <ul style="list-style-type: none"><li>• Displays all contacts</li><li>• Redirects to conversation with contact when contact is clicked</li></ul>	Collaborators: <ul style="list-style-type: none"><li>• MessageList</li></ul>

Class Name: MessageList	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities:	Collaborators: <ul style="list-style-type: none"><li>• MessageBox</li></ul>

<ul style="list-style-type: none"> <li>• Displays the conversation as a list of MessageBoxes</li> <li>• Stores the conversation between two users as a list of Messages</li> <li>• Displays a MessageInput</li> </ul>	<ul style="list-style-type: none"> <li>• MessageInput</li> </ul>
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<b>Class Name: MessageBox</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Displays the Contents of a message</li> <li>• Displays the owner of the message abstractly</li> <li>• Displays the time last modified of the message</li> <li>• Displays whether the message has been modified</li> <li>• Allows user to modify the message</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• None</li> </ul>

<b>Class Name: MessageInput</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Displays a input box to write new messages</li> <li>• Displays a button that adds the written message when clicked</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• None</li> </ul>

<b>Class Name: Contacts</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Stores the contacts of each user</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• None</li> </ul>

<b>Class Name: Conversations</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): Messages</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>Contains individual conversations between users</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>None</li> </ul>

<b>Class Name: Messages</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>Contains individual messages between users</li> <li>Contains conversation they belong to as well as timestamps</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>None</li> </ul>

SEAL-8: As a teacher, I want to assign deliverables, so that other users can complete them.

<b>Class Name:</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li></li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li></li> </ul>

SEAL-12: As a startup founder, I want to submit deliverables, so that teachers may check over them.

<b>Class Name:</b> Submit	
<b>Parent Class (if any):</b> none <b>Subclasses (if any):</b> none	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Allows users to upload their deliverables.</li><li>• Displays the instructions and resources for the assignment.</li><li>• Tracks which course and assignment the user is uploading the deliverable to.</li><li>• Display the uploaded files to the user.</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>• None</li></ul>

SEAL-16: As an investor, I want to browse through startups, so that I can find one that I want to invest in.

<b>Class Name:</b> Search.js	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>• Allow users to view all company or user lists by choice.</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>• </li></ul>

<ul style="list-style-type: none"> <li>• Allow users to search through searching keyword from company lists or user lists</li> </ul>	
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SEAL-19: As a user, I want to search for another user, so that I can learn more about them and connect with them.

<b>Class Name:</b> Search.js	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Allow users to view all company or user lists by choice.</li> <li>• Allow users to search through searching keyword from company lists or user lists</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

<b>Class Name:</b> CreateUserProfile	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Allow users input text information regarding building company profile, including company title, tagline, description, and email address.</li> <li>• Allow users to upload images for the company logo.</li> <li>• Allow users to include links to external websites, such as Twitter and Facebook, by choice.</li> <li>• Allow users to include and link members of the company.</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

<ul style="list-style-type: none"> <li>• Pass user input into the database.</li> </ul>	
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<b>Class Name:</b> EditUserProfile	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Request field of user input information stored in the database.</li> <li>• Allow the user to fill in the desired update on their respective user profile.</li> <li>• Pass user input into the database.</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

<b>Class Name:</b> MyUserProfile	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Display required information in setting up the user_id, username, userbio, gender, email, links, belongingCompany, position, profileImage, backgroundImage</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>•</li> </ul>

SEAL-38: As a user, I want to be recognized in the client after I've logged in, so that I can access other resources under my account



<b>Class Name: User</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): StartupFounder, Investor, Instructor</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• Now holds extra fields including userbio, gender, links, affiliation, and position</li> <li>• now has access to hidden and protected routes after logged in</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• </li> </ul>

<b>Class Name: Registration</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• holds name, email, password, and role, and sends to server</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• None</li> </ul>

<b>Class Name: Login</b>	
<b>Parent Class (if any): None</b> <b>Subclasses (if any): None</b>	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>• holds name, email, password, and role, and sends to server</li> <li>• changes global state to authenticated, allowing actions after logged in</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>• Authenticated</li> </ul>

<b>Class Name:</b> Authenticated	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>has ability to log user out, if user is logged in</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>logout</li> </ul>

SEAL-39: As a user, I want to access all the features the previous sprint, so that I can navigate through the website easily

<b>Class Name:</b> Course	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>Containing Information about a specific course</li> <li>Also contains the videos associated with said course</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li>Video</li> </ul>
<b>Class Name:</b> Video	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"> <li>Stores information about the video</li> </ul>	<b>Collaborators:</b> <ul style="list-style-type: none"> <li></li> </ul>
<b>Class Name:</b> Video Player	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	

<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Displays video selected by the user</li></ul>		<b>Collaborators:</b> <ul style="list-style-type: none"><li>Video</li></ul>	
<b>Class Name:</b> Course			
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None			
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Containing Information about a specific course</li><li>Also contains the videos associated with said course</li></ul>		<b>Collaborators:</b> <ul style="list-style-type: none"><li>Video</li></ul>	
<b>Class Name:</b> Video			
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None			
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Stores information about the video</li></ul>		<b>Collaborators:</b> <ul style="list-style-type: none"><li></li></ul>	
<b>Class Name:</b> Video Player			
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None			
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Displays video selected by the user</li></ul>		<b>Collaborators:</b> <ul style="list-style-type: none"><li>Video</li></ul>	
<ul style="list-style-type: none"><li></li></ul>		<ul style="list-style-type: none"><li></li></ul>	
<b>Class Name:</b> Course		<b>Class Name:</b> Course	
<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None		<b>Parent Class (if any):</b> None <b>Subclasses (if any):</b> None	
<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Containing Information about a</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>Video</li></ul>	<b>Responsibilities:</b> <ul style="list-style-type: none"><li>Containing Information about a</li></ul>	<b>Collaborators:</b> <ul style="list-style-type: none"><li>Video</li></ul>

<div> <div>specific course</div> <ul style="list-style-type: none"> <li>Also contains the videos associated with said course</li> </ul> </div>	
<ul style="list-style-type: none"> <li></li> <li></li> </ul>	
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