System Design Document
CSCC01 Summer 2021
Team: Seal

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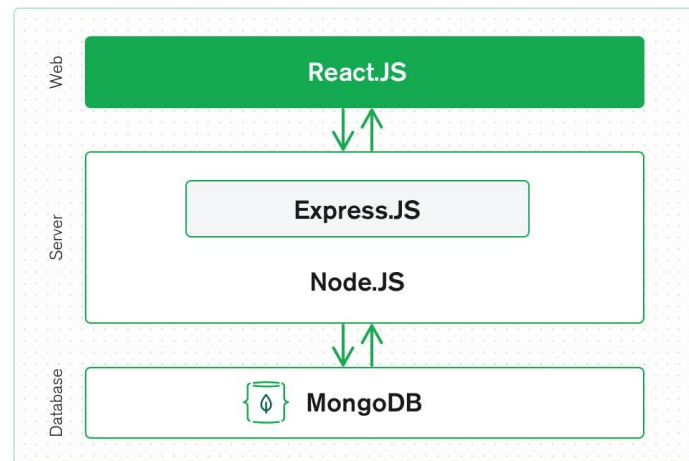
Software Architecture

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-6: As a teacher, I want to upload pre-recorded content, so that users can watch them at their own pace.

Class Name: ListVideo	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: - Display all current videos with information including Title, Description, Course, and Lesson. - Allow the login user to delete the video. - Allow the login user to add video by redirection to the upload page.	**Collaborators:** None

Class Name: UploadVideo

Parent Class (if any): None Subclasses (if any): None	
Responsibilities: ● Allow the login user to upload a video with required details including Title, Description, Course, Lesson, and a mp4 file.	**Collaborators:** ● None

SEAL-9: As a teacher, I want to assign deliverables as mandatory, so that users are required to complete them.

Class Name: Deliverables	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: ● See old cards for other responsibilities ● + NEW: can indicate if mandatory	**Collaborators:** ● None

SEAL-62: As a Startup or Investor, I would like to have control over my representative company, so that I can restrict access to other users in the company.

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

Responsibilities:	Collaborators:
- Allow the current login user to view its user profiles and owned companies. - Provide redirection to view login user's user profiles. - Provide redirection to create, edit, and viewing companies. - Allow the login user to delete owned companies.	

SEAL-18: As a service provider, I want to provide a special discount/offer to some startups.

Class Name: Offer	
Parent Class (if any): None **Subclasses (if any): None**	
Responsibilities: - List all the offers and discounts - Allow user to add offers and discounts - Allow service provider to add offers and discounts	Collaborators:

Class Name: OfferViewerSpecific	
Parent Class (if any): None **Subclasses (if any): None**	
Responsibilities: - Display a specific offer - Allow user to write comment	Collaborators:

SEAL-11: As a teacher, I want to give feedback about my students' work, so that they are able to learn from their mistakes.

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

Responsibilities:
    ● Allow user to view feedback of a deliverable
    ● Allow instructor to write feedback for a deliverable
	Collaborators:

SEAL-14/SEAL-15: As a user, I want to start video conferences, so that I may host virtual events for other users / As a user, I want to join video conferences with other people, so that I can attend virtual events

Class Name: Zoom Client	
Parent Class (if any): None Subclasses (if any): None	

Responsibilities:
    ● Provides Zoom API Frontend
    ● Takes in connection information from Zoom Meeting
	Collaborators:
	    ● Zoom Meeting

Class Name: Zoom Endpoint	
Parent Class (if any): None Subclasses (if any): None	

Responsibilities:
    ● Provides Zoom API information to the Zoom Meeting class
	Collaborators:
	    ● Zoom Meeting

Class Name: Zoom Meeting	
Parent Class (if any): None **Subclasses (if any): None**	

Responsibilities:
  ● Gathers User Information to send to the Zoom Client
  ● Redirects the User to the Zoom Client with the correct parameters
	Collaborators:
	  ● Zoom Endpoint

SEAL-63/SEAL-64: As a student, I want to register and unregister courses / As a student, I want to view my registered courses

Class Name: Courses	
Parent Class (if any): None **Subclasses (if any): None**	

Responsibilities:
  ● Shows all unregistered courses
  ● Adds a course to a student's courses
	Collaborators:
	  ● None

Class Name: MyCourses	
Parent Class (if any): None **Subclasses (if any): None**	
Responsibilities:	**Collaborators:** ● None

● Shows all registered courses for student ● Views course contents when clicked on ● Unregisters a student's course	

SEAL-10: As a teacher, I want to categorize lessons, so that users are able to navigate through them easily.

Class Name: CoursePage	
Parent Class (if any): None Subclasses (if any): None	
Responsibilities: ● Shows all assignments and lessons for that course ● Add and remove lesson and assignment folders ● Add assignments and lessons into their respective folders	Collaborators: ● None