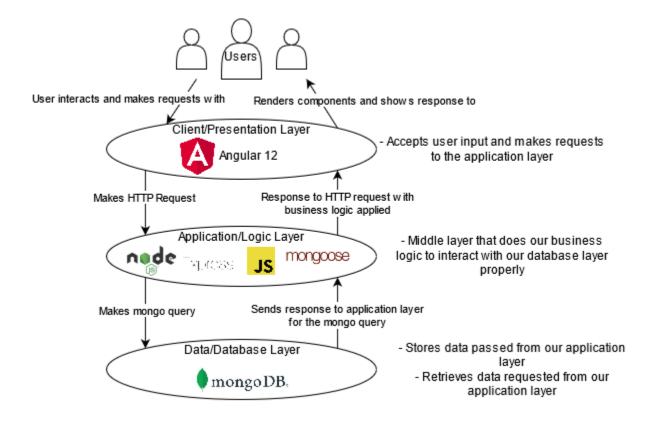
System Design Documentation Brute Force Solution Sprint 4

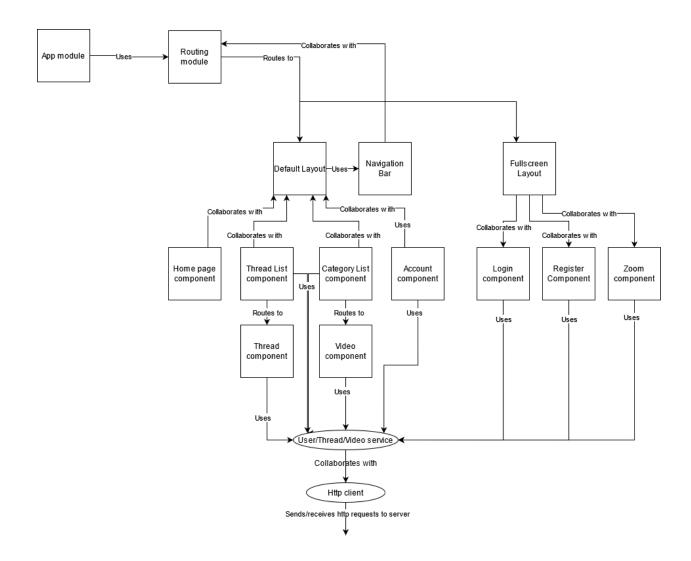
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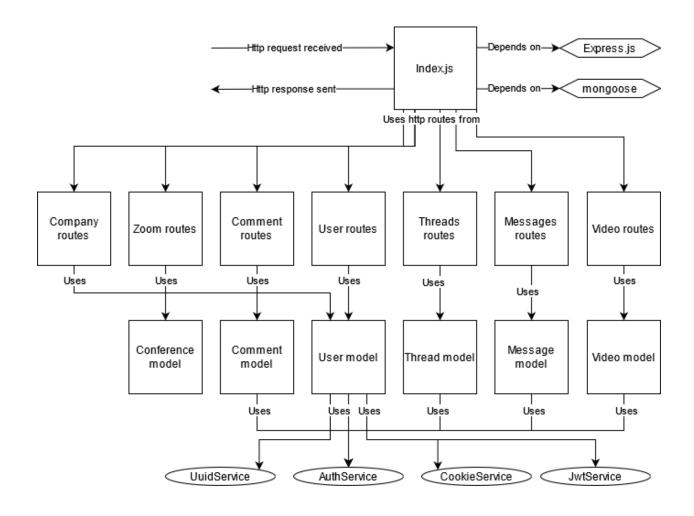
Three-Tiered architecture diagram



Client system diagram



Server system diagram



CRC CARDS

Front End

Component Name: App module	
Parent: None Child: Router Outlet	
Responsibility: • Root of application, contains the routing outlet.	Collaborators:

Class Name: Routing module	
Parent: App Module Child Class: None	
Responsibility: Changes this page to any of the routes	Collaborators: Landing page component Login component

Component Name: Default layout component	
Parent Class: Routing module Child Class: None	
Responsibility: • Displays the navigation bar, and the content of the page	Collaborators: Navigation Bar Home page component E-learning component Community component User profile component

Component Name: Fullscreen layout	
Parent Class: Routing module Child Class: None	
Responsibility: • Displays the component in the fullscreen layout	Collaborators: Login component Register component

Component Name: Navigation Bar	
Parent: None Child: None	
Responsibility: • Links to Home, E-Learning, Community, User Profile	Collaborators: • Routing module

Component Name: Sign Up component

Parent Class: None Child Class: None

Responsibility:

- Collecting Personal information, username, password
- Send gathered account information to back end for account creating
- Log in link (already have an account)

Collaborators:

- User service
- Routing module

Component Name: Log In component

Parent Class: Child Class:

Responsibility:

- Collect username and password
- Send information to the back end for verification
- Tools for accessing your account if password is forgotten

Collaborators:

- Routing module
- Sign Up component
- User service

Component Name: User Profile component

Parent Class: None Child Class: None

Responsibility:

- Ability to edit user information
- Collecting updated information from user and send it to the back end

Collaborators:

User service

Component Name: Home page component Parent Class: None Child Class: None Responsibility: Collaborators: User profile component • Acts as the central hub of the website • Displays a small section for editing User service user profile Thread service • Displays a small section for Videos service recommended threads Displays a small section for recommended videos Component Name: E-Learning component Parent Class: Child Class: Responsibility: Collaborators: Displays the categories (topics) Video service

Links to E-learning videos	
Component Name: Thread list component	
Parent Class: None Child Class: None	
Responsibility: Displays threads for the user to interact with Displays create thread button	Collaborators: • Thread service

Component Name: User service	
Parent Class: Child Class:	
Responsibility: • Sends http requests to the back end for requests about users	Collaborators:

Component Name: Thread service	
Parent Class: Child Class:	
Responsibility: • Sends http requests to the back end for requests about threads	Collaborators:
Component Name: Video service	
Parent Class: Child Class:	
Responsibility: Sends http requests to the back end for requests about videos	Collaborators:
Component Name: Company service	
Parent Class: Child Class:	
Responsibility: Sends http requests to the back end for requests about companies	Collaborators:
Component Name: Like service	
Parent Class: Child Class:	
Responsibility: • Sends http requests to the back end for requests about likes	Collaborators:

Component Name: Comment service	
Parent Class: Child Class:	
Responsibility: • Sends http requests to the back end for requests about comments	Collaborators:

Back End

Class Name: User route manager

Parent Class: None Child Class: None

Responsibility:

- Receive information from front end collaborators
- Create accounts in database
- Verify existing account in database, and sending appropriate response
- Edit account information in the database

Collaborators:

User model

Class Name: Thread route manager

Parent Class: None Child Class: None

Responsibility:

- Adding a thread to the thread feed
- Adding a comment underneath a thread given a thread ID
- Incrementing likes on a thread given thread ID
- Add a comment to a comment as a reply given a comment ID

Collaborators:

Thread model

Class Name: Video route manager	
Parent Class: None Child Class: None	
Responsibility:	Collaborators: • Video model
Class Name: Comment route manager	
Parent Class: None Child Class: None	
Responsibility: • Adding comments to videos/threads/etc	Collaborators:
Class Name: User model	
Parent Class: Child Class: Personal User model, Company User model	
Responsibility: Stores following information Name/Username Password Email Phone Website Link	Collaborators:
Class Name: Personal User model	
Parent Class: User Child Class:	

Collaborators:

Class Name: Company User model		
Parent Class: User Child Class:		
Responsibility:	Collaborators:	
Class Name: Thread model		
Parent Class: Child Class:		
Responsibility:	Collaborators:	
Class Name: Comment model		
Parent Class: Child Class:		
Responsibility: Contains text content that is to be added to a thread post or video Contains information about the commenter	Collaborators:	
Class Name: Video Comment model		
Parent Class: Child Class:		

Collaborators:

Contains video posterContains video link	
Class Name: Conference model	
Parent Class: Child Class:	
Responsibility: Contains conference information such as Zoomld (meeting number), zoomLink, etc	Collaborators: