

System Design Documentation

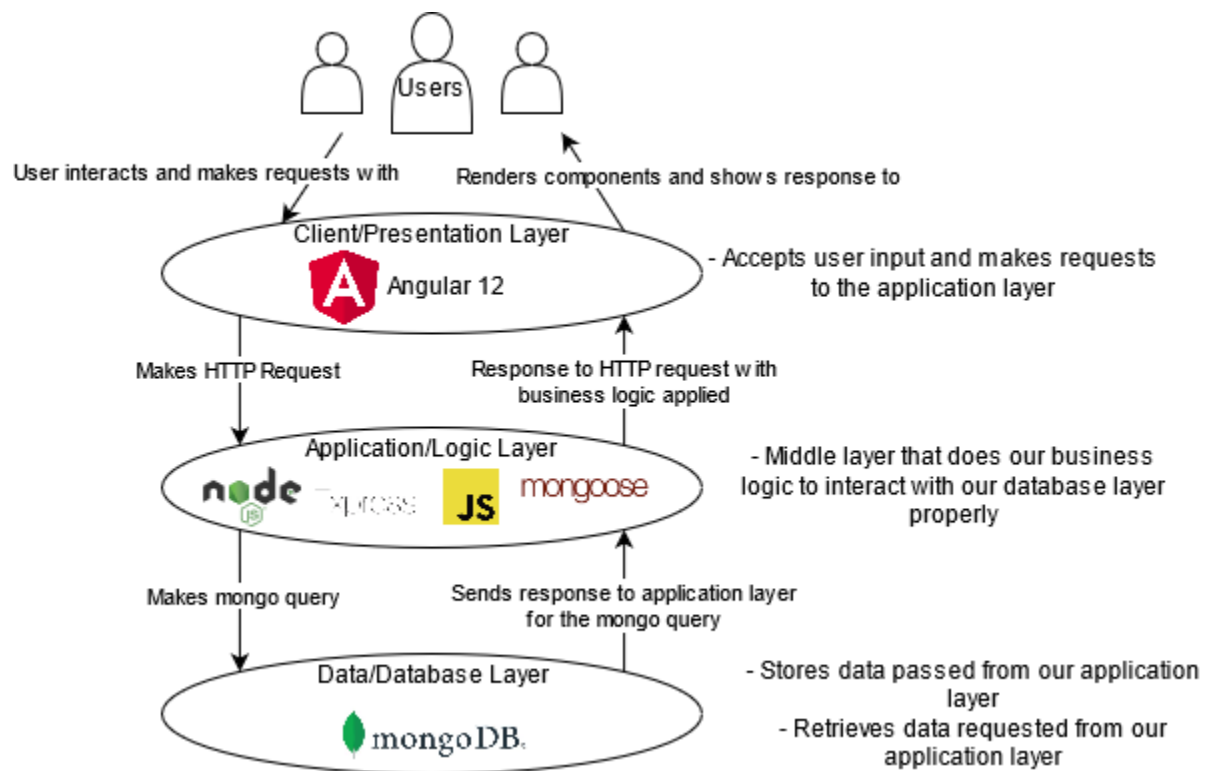
Brute Force Solution

Sprint 3

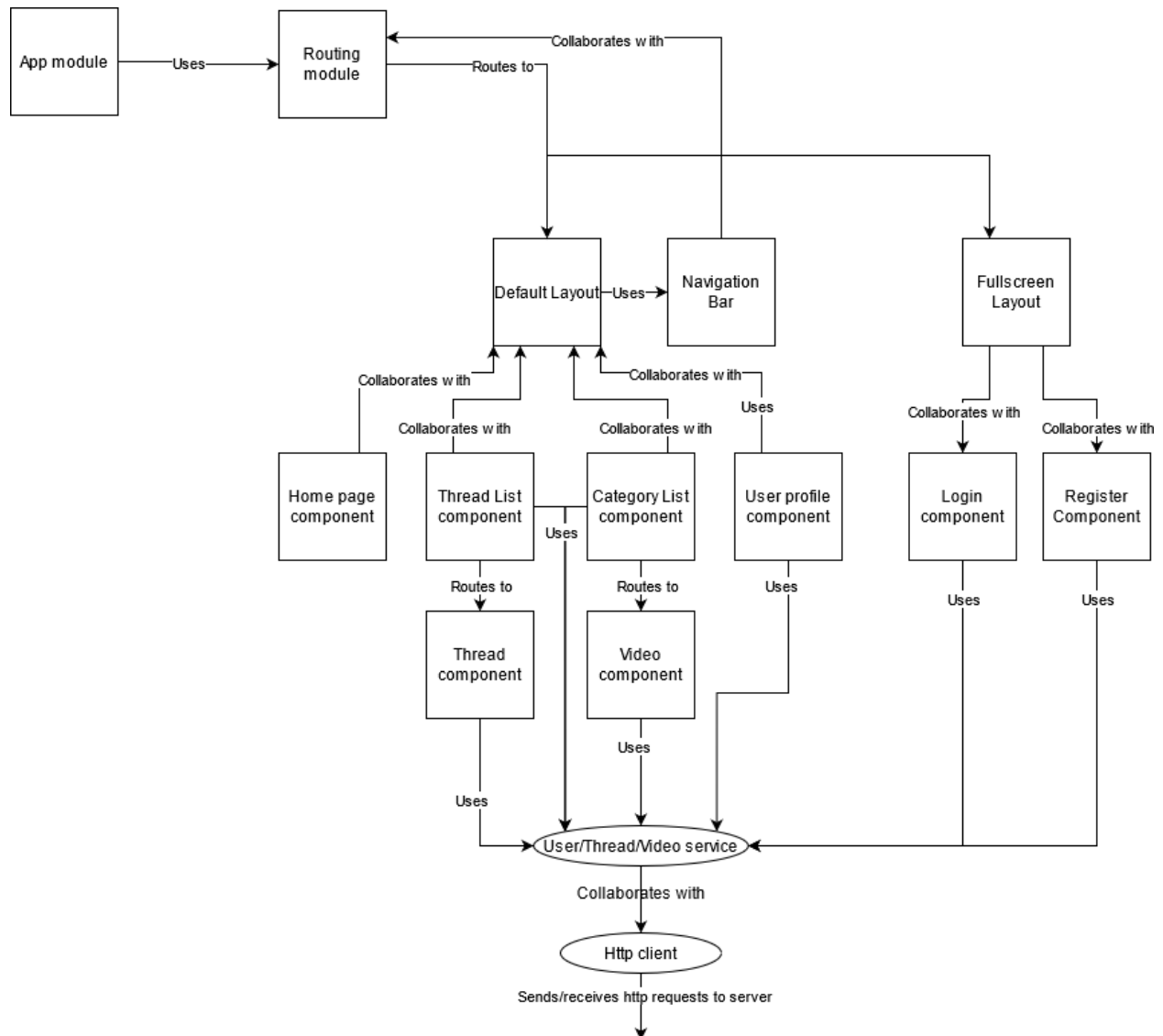
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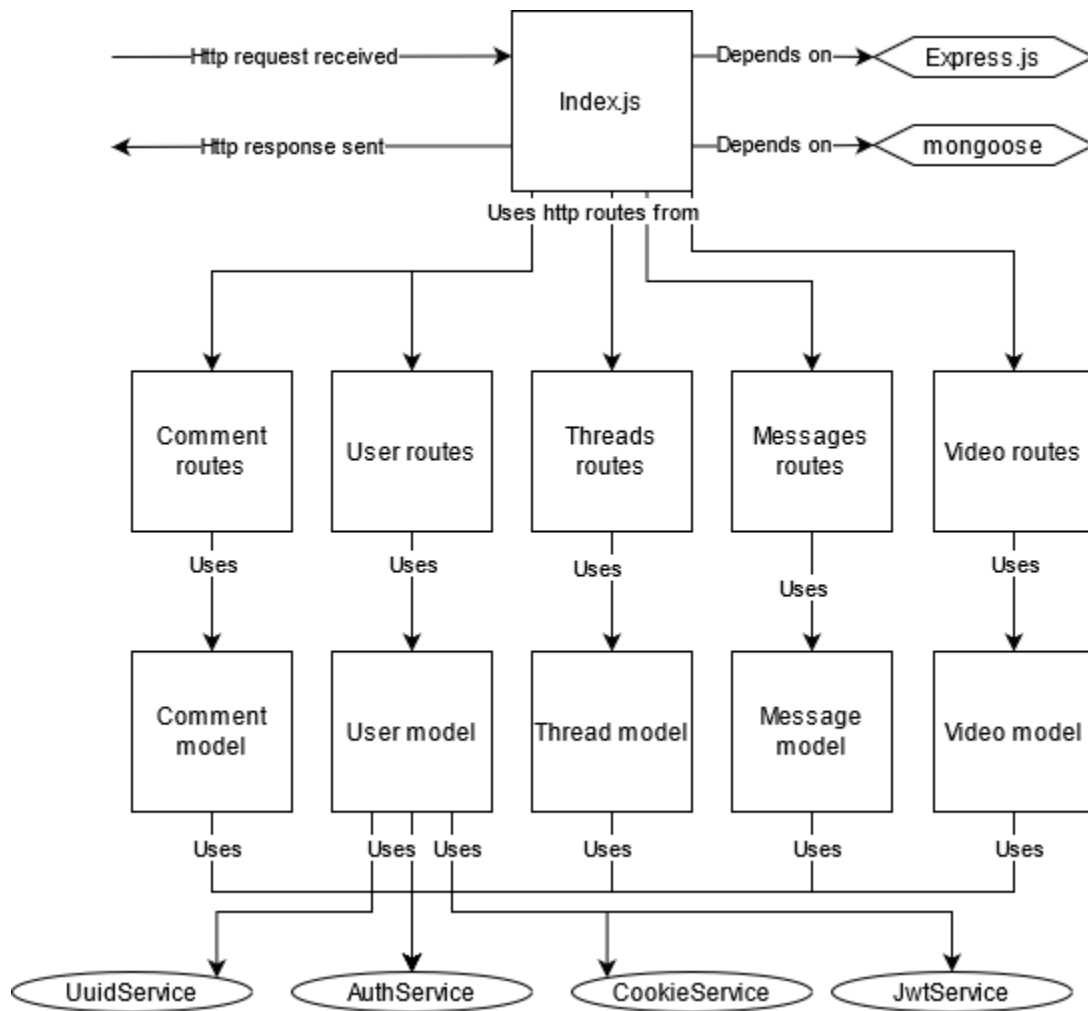
Three-Tiered architecture diagram



Client system diagram



Server system diagram



CRC CARDS

Front End

Component Name: App module	
Parent: None Child: Router Outlet	
Responsibility: <ul style="list-style-type: none">• Root of application, contains the routing outlet.	Collaborators: <ul style="list-style-type: none">•

Class Name: Routing module	
Parent: App Module Child Class: None	
Responsibility: <ul style="list-style-type: none">• Changes this page to any of the routes	Collaborators: <ul style="list-style-type: none">• Landing page component• Login component

Component Name: Default layout component	
Parent Class: Routing module Child Class: None	
Responsibility: <ul style="list-style-type: none">• Displays the navigation bar, and the content of the page	Collaborators: <ul style="list-style-type: none">• 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: <ul style="list-style-type: none">• Displays the component in the fullscreen layout	Collaborators: <ul style="list-style-type: none">• Login component• Register component

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Component Name: Navigation Bar	
Parent: None Child: None	
Responsibility: <ul style="list-style-type: none"> • Links to Home, E-Learning, Community, User Profile 	Collaborators: <ul style="list-style-type: none"> • Routing module

Component Name: Sign Up component	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Collecting Personal information, username, password • Send gathered account information to back end for account creating • Log in link (already have an account) 	Collaborators: <ul style="list-style-type: none"> • User service • Routing module

Component Name: Log In component	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> • Collect username and password • Send information to the back end for verification • Tools for accessing your account if password is forgotten 	Collaborators: <ul style="list-style-type: none"> • Routing module • Sign Up component • User service

Component Name: User Profile component	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Ability to edit user information • Collecting updated information from user and send it to the back end 	Collaborators: <ul style="list-style-type: none"> • User service

Component Name: Home page component	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Acts as the central hub of the website • Displays a small section for editing user profile • Displays a small section for recommended threads • Displays a small section for recommended videos 	Collaborators: <ul style="list-style-type: none"> • User profile component • User service • Thread service • Videos service

Component Name: E-Learning component	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> • Displays the categories (topics) • Links to E-learning videos 	Collaborators: <ul style="list-style-type: none"> • Video service

Component Name: Thread list component	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Displays threads for the user to interact with • Displays create thread button 	Collaborators: <ul style="list-style-type: none"> • Thread service

Component Name: User service	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> • Sends http requests to the back end for requests about users 	Collaborators: <ul style="list-style-type: none"> •

Component Name: Thread service	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> • Sends http requests to the back end for requests about threads 	Collaborators: <ul style="list-style-type: none"> •

Component Name: Video service	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> • Sends http requests to the back end for requests about videos 	Collaborators: <ul style="list-style-type: none"> •

Back End

Class Name: User route manager	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • User model

Class Name: Thread route manager	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • 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: <ul style="list-style-type: none"> • Thread model

Class Name: Video route manager	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Getting video learning categories • Adding learning videos 	Collaborators: <ul style="list-style-type: none"> • Video model

Class Name: Comment route manager	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Adding comments to videos/threads/etc 	Collaborators: <ul style="list-style-type: none"> • Video model • Thread model • Comment model

Class Name: User model	
Parent Class: Child Class: Personal User model, Company User model	
Responsibility: Stores following information <ul style="list-style-type: none"> • Name/Username • Password • Email • Phone 	Collaborators:

<ul style="list-style-type: none"> Website Link 	
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Class Name: Personal User model	
Parent Class: User Child Class:	
Responsibility: <ul style="list-style-type: none"> Profile Picture Resume Skills Education 	Collaborators:

Class Name: Company User model	
Parent Class: User Child Class:	
Responsibility: <ul style="list-style-type: none"> Address Logo Sector Job applications 	Collaborators:

Class Name: Thread model	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> Contains text content Contains metadata: Date posted User who Posted Is this post a reply Keeps a track of all comments under the thread this thread 	Collaborators:

Class Name: Comment model	
Parent Class: Child Class:	

Responsibility: <ul style="list-style-type: none"> Contains text content that is to be added to a thread post or video Contains information about the commenter 	Collaborators:
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Class Name: Video Comment model	
Parent Class: Child Class:	
Responsibility: <ul style="list-style-type: none"> Contains video title Contains video description Contains video poster Contains video link 	Collaborators: