

System Design Documentation

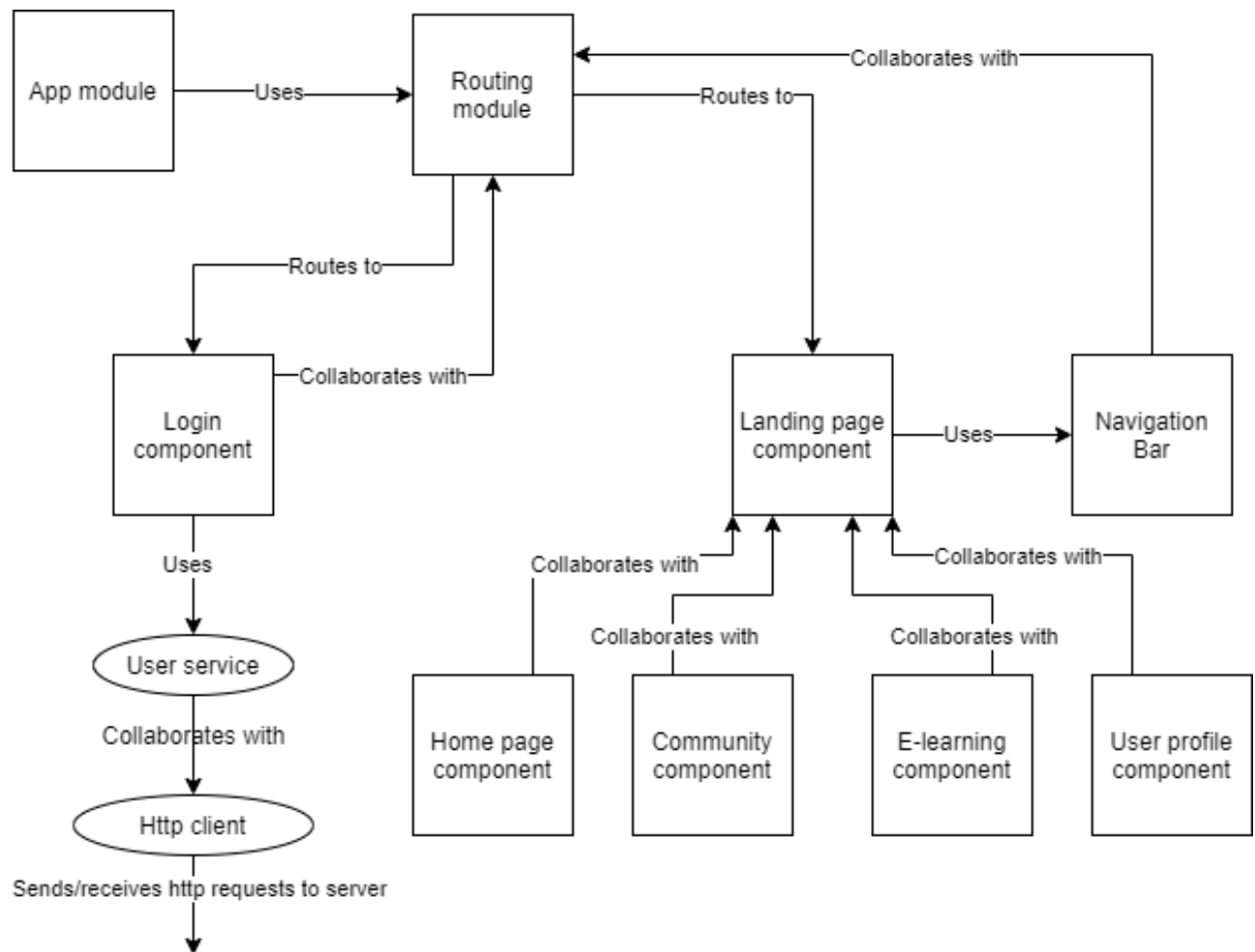
Brute Force Solution

Sprint 1

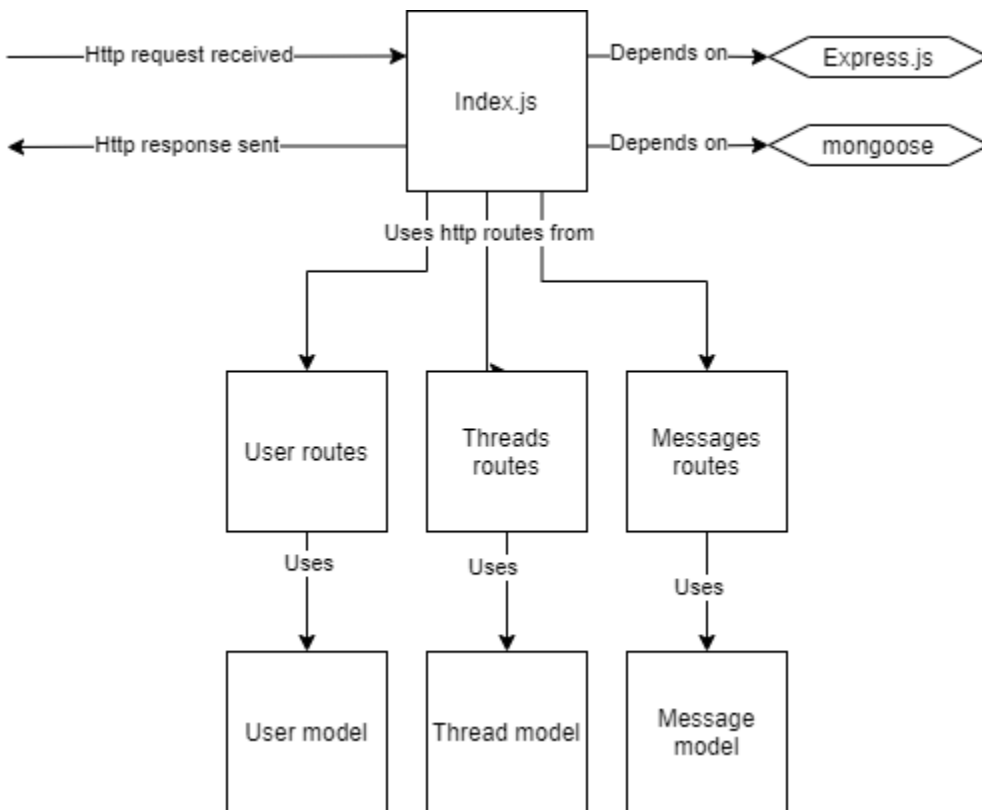
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Client system diagram



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: Landing Page 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: 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 	Collaborators: <ul style="list-style-type: none"> User profile component User service Thread service Videos service

<ul style="list-style-type: none"> • Displays a small section for recommended videos 	
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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: Community component	
Parent Class: None Child Class: None	
Responsibility: <ul style="list-style-type: none"> • Displays threads for the user to interact with 	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: 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 • Website Link 	Collaborators:

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: Thread 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 • Contains information about the commenter 	Collaborators: