System Design Documentation
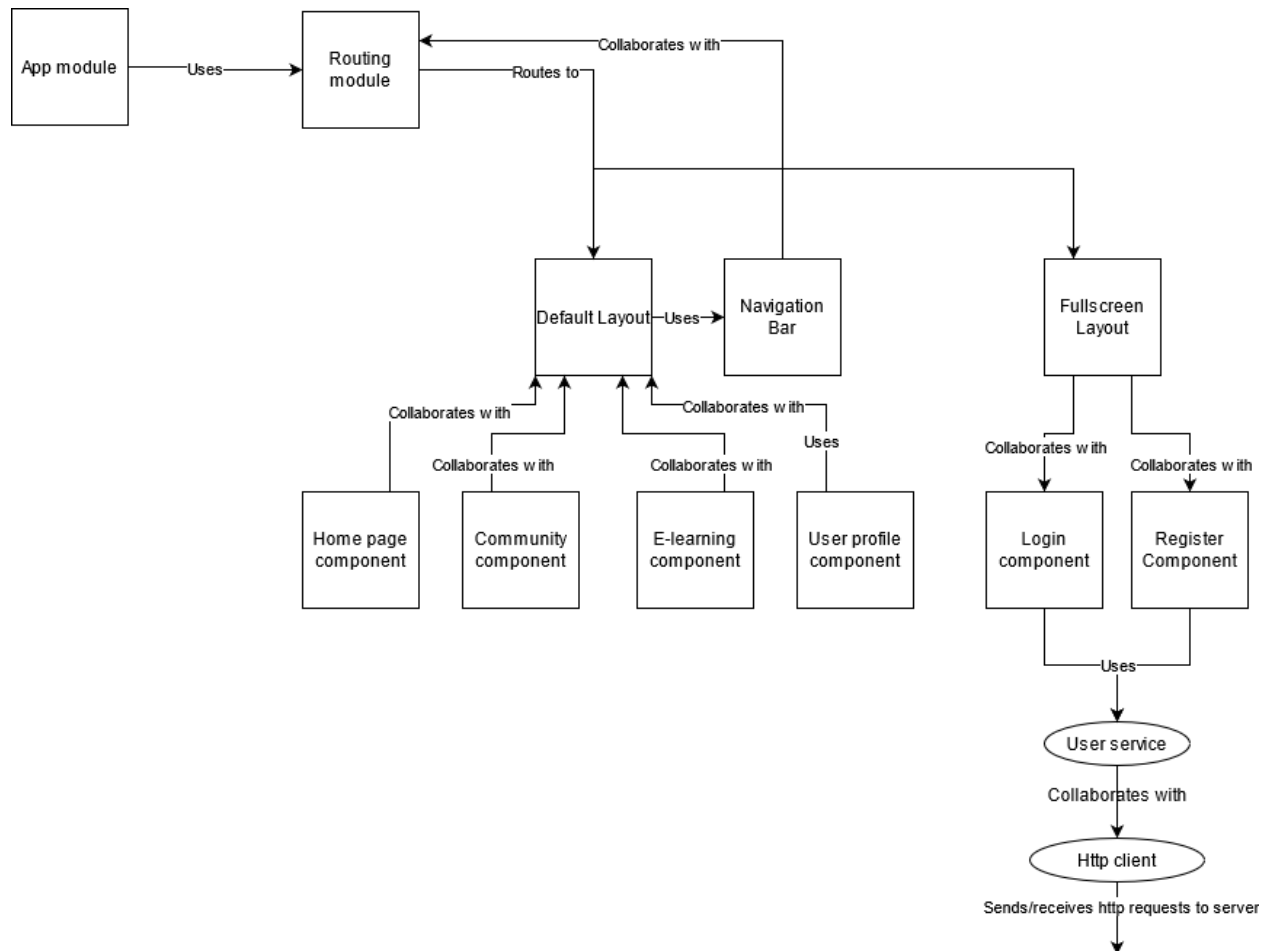# Brute Force Solution
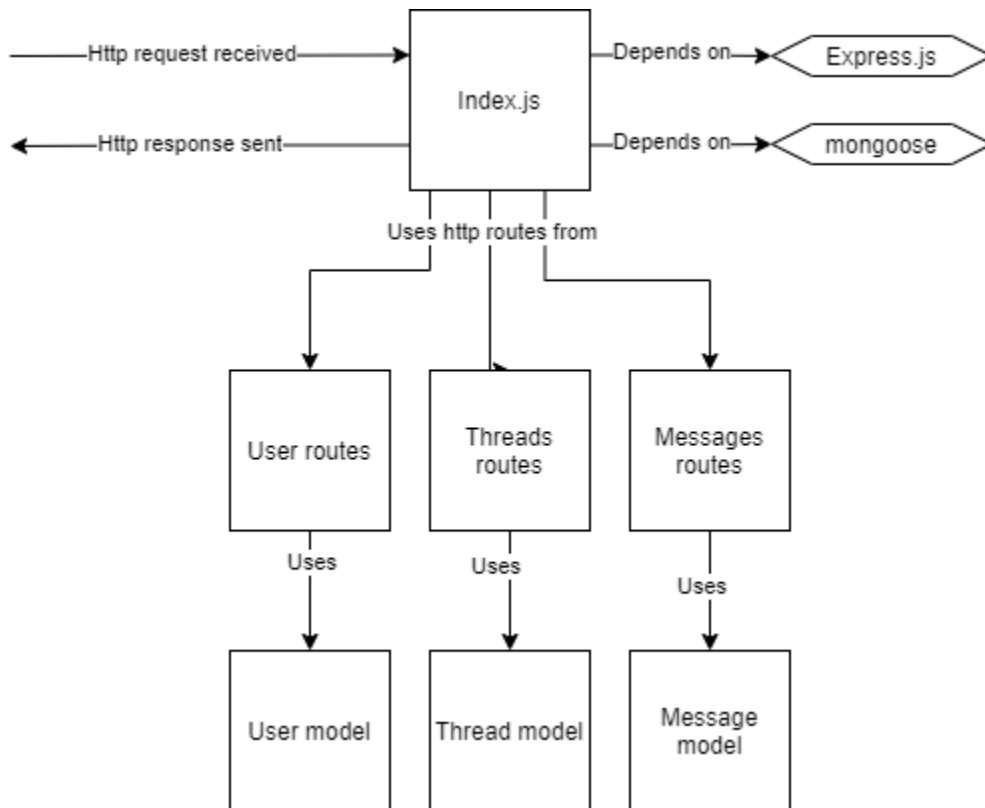# Sprint 2

Table Of Contents

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: ● 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: ● User profile component ● User service ● Thread service ● Videos service

Component Name: E-Learning component	
Parent Class: Child Class:	
Responsibility: ● Displays the categories (topics) ● Links to E-learning videos	Collaborators: ● Video service

Component Name: Community component	
Parent Class: None Child Class: None	
Responsibility: ● Displays threads for the user to interact with	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: ●

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: 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:	

Responsibility:
    ● Profile Picture
    ● Resume
    ● Skills
    ● Education
	Collaborators:

Class Name: Company User model	
Parent Class: User Child Class:	

Responsibility:
    ● Address
    ● Logo
    ● Sector
    ● Job applications
	Collaborators:

Class Name: Thread model	
Parent Class: Child Class:	

Responsibility:
    ● 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:
    ● Contains text content that is to be added to a thread post
    ● Contains information about the commenter
	Collaborators: