

System Design Document

GROUP MJAARNS

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CRC CARDS

Class name: Company profile	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display information about a company 	Collaborators: <ul style="list-style-type: none"> • Banner, Biography, Employees, ProfileInfo

Class name: Instructor profile	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display information about a instructor 	Collaborators: <ul style="list-style-type: none"> • Banner, Biography, ProfileInfo

Class name: Partner profile	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display information about a Partner 	Collaborators: <ul style="list-style-type: none"> • Banner, Biography, ProfileInfo

Class name: Entrepreneur profile	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display information about a Entrepreneur 	Collaborators: <ul style="list-style-type: none"> • Banner, Biography, ProfileInfo

Class name: Banner	
Parent class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the banner image • Display the profile picture 	Collaborators: <ul style="list-style-type: none"> • None

Class name: ProfileInfo	
Parent class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the profile specific information 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Biography	
Parent class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the biography of the user 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Employees	
Parent class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the Employees of a Company 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Documents	
Parent class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the documents of a company 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Settings	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays the name, username and email of the user. • Allows the user to update their first name, last name, username, email and password. 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Employee	
Parent Class: None Subclasses: Partner, Entrepreneur, Company, Instructor	
Responsibilities: <ul style="list-style-type: none"> • Keep track of employees 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Routes	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Links the frontend pages with their respective APIs 	Collaborators: <ul style="list-style-type: none"> • Register • Login • authSettings • updateSettings

Class name: Header	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays and links to other frontend pages at the top of the page as a navbar 	Collaborators: <ul style="list-style-type: none"> • None

Class name: Register	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays the register form. • Allows the user to register into the application. • Send the information from the register form to userAction. 	Collaborators: <ul style="list-style-type: none"> • Selection • Header • userAction

Class name: Selection	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays the selection criteria for registering into the website 	Collaborators: <ul style="list-style-type: none"> None

Class name: Login	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays the login form Send the information from the login form to userAction 	Collaborators: <ul style="list-style-type: none"> Header userAction

Class name: Types	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Actions of the application 	Collaborators: <ul style="list-style-type: none"> None

Class name: userAction	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Sends the information of the registration and login form from frontend to backend via API 	Collaborators: <ul style="list-style-type: none"> Types

Class name: settingAction	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Sends the information of the update settings form to the backend via the API. 	Collaborators: <ul style="list-style-type: none"> Types

Class name: reducers/Index	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Combine all reducers of the application 	Collaborators: <ul style="list-style-type: none"> userReducer

Class name: userReducer	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Tracks the changes of states in register and login 	Collaborators: <ul style="list-style-type: none"> None

Class name: settingReducer	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Tracks the changes of states when user is updating 	Collaborators: <ul style="list-style-type: none"> Types

Class name: Home	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Home page for logged in user. Serves as a creation hub to create both posts and modules. Provides access to other major functionalities of the application. 	Collaborators: <ul style="list-style-type: none"> HeaderAuth Post ModuleCard postAction moduleAction

Class name: Post	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays created posts • Allows for editing, deletion, and commenting of posts. 	Collaborators: <ul style="list-style-type: none"> • postAction

Class name: ModuleCard	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Shows the name of the module and the instructor's name. • Serves as a link between the home page and the actual module page. 	Collaborators: <ul style="list-style-type: none"> • None

Class name: AuthHeader	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Authenticated navbar of currently logged in user • Allows to navigate through all the major functionalities of the app. 	Collaborators: <ul style="list-style-type: none"> • userAction

Class name: module	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display information about the module created by the instructor • Allows instructor to upload assignment and videos 	Collaborators: <ul style="list-style-type: none"> • AuthHeader

Class name: SearchHeader	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Filtering types of Users • Filtering Companies that seek funding 	Collaborators: <ul style="list-style-type: none"> • Profiles

Class name: Profiles	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a list of Profiles based on filters 	Collaborators: <ul style="list-style-type: none"> • SearchHeader • Profile

Class name: Profile	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a basic information for a profile user • Connect to the profile page of the displaying user 	Collaborators:

Class name: ProfileSearchPage	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a list of profile searches • Display filter options for searches 	Collaborators: <ul style="list-style-type: none"> • AuthHeader • SearchHeader • Profiles

Class name: ProfileEditPage	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the current user information • Allows user to upload profile picture and add changes to their profile 	Collaborators: <ul style="list-style-type: none"> • AuthHeader • EditGeneral • EditCompany

Class name: EditGeneral	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display the current user general information • Allows the user to edit the general information defined for all users 	Collaborators: <ul style="list-style-type: none"> • None

Class name: DirectMsg	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays the entire chat log between users • Allows users to input messages into the log 	Collaborators: <ul style="list-style-type: none"> • None

Class name: SingleMessage	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a single text message typed by the user at a given time 	Collaborators: <ul style="list-style-type: none"> • None

Class name: EditCompany	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display company profile information • Allows company to upload documents and make changes to their company profile 	Collaborators: <ul style="list-style-type: none"> • None

Class name: moduleEdit	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Allows the instructor to upload assignments, content and lectures to the module 	Collaborators: <ul style="list-style-type: none"> • Assignment • Content • Video • AuthHeader • moduleAction

Class name: moduleAction	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Sends the information of the modules to the backend via the APIs 	Collaborators: <ul style="list-style-type: none"> • Types

Class name: assignmentAction	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Sends the information regarding assignments, such as creation and fetching assignments via the APIs 	Collaborators: <ul style="list-style-type: none"> • Types

Class name: moduleReducer	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Tracks the changes of states regarding modules 	Collaborators: <ul style="list-style-type: none"> Types

Class name: assignmentReducer	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Tracks the changes of states regarding assignments 	Collaborators: <ul style="list-style-type: none"> Types

Class name: AssignmentView/Assignments	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays card with all the single assignments 	Collaborators: <ul style="list-style-type: none"> AssignmentView/Assignment

Class name: AssignmentView/SingleAssignment	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays each assignment individually and a link that opens the assignment 	Collaborators:

Class name: AssignmentUploadCard/Assignment	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Adds assignments to the assignment card 	Collaborators: <ul style="list-style-type: none"> AssignmentUploadCard/SingleAssignment

Class name: AssignmentUploadCard/SingleAssignment	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays assignments to be added and allows removal of assignments 	Collaborators:

Class name: ContentView/Content	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays card with all the content 	Collaborators: <ul style="list-style-type: none"> ContentView/SingleContent

Class name: ContentView/SingleContent	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays each content individually and a link that opens the content 	Collaborators:

Class name: ContentUploadCard/Content	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Adds content to the content card 	Collaborators: <ul style="list-style-type: none"> ContentUploadCard/SingleContent

Class name: ContentUploadCard/SingleContent	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays content to be added and allows removal of content 	Collaborators:

Class name: VideoView/Videos	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays card with all the videos 	Collaborators: <ul style="list-style-type: none"> VideoView/SingleVideo

Class name: VideoView/SingleVideo	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays each lecture individually and a link that opens the lecture 	Collaborators:

Class name: VideoUploadCard/Videos	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Adds lectures to the lecture card 	Collaborators: <ul style="list-style-type: none"> VideoUploadCard/SingleVideo

Class name: VideoUploadCard/Videos	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Displays lectures to be added and allows removal of lectures 	Collaborators:

Class name: AssignmentView	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Display student view of assignments added by instructor 	Collaborators: <ul style="list-style-type: none"> assignmentAction

Class name: ContentView	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display student view of content added by instructor 	Collaborators: <ul style="list-style-type: none"> • moduleAction

Class name: LectureView	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display student view of lectures added by instructor 	Collaborators: <ul style="list-style-type: none"> • moduleAction

Class name: submission	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays submissions of students and the assignment for which it was submitted 	Collaborators: <ul style="list-style-type: none"> • moduleAction • assignmentAction

Class name: SingleAssignmentInstructor	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Allows instructor to submit feedback file, comment and grade the submissions 	Collaborators: <ul style="list-style-type: none"> • assignmentAction

Class name: module/calendar	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Allows users to watch module's calendar by day, week, or month • Allows users to add events to the calendar. 	Collaborators: <ul style="list-style-type: none"> • modules/addEvent

Class name: module/addEvent	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays form to submit a new event • Add events to the database 	Collaborators: <ul style="list-style-type: none"> • eventActions

Class name: moduleCalendar	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a day preview of the events of the calendar 	Collaborators: <ul style="list-style-type: none"> • eventActions

Class name: moduleInfo	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays name and description of the calendar. 	Collaborators: <ul style="list-style-type: none"> • eventActions

Class name: moduleInfo	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays name and description of the calendar. 	Collaborators: <ul style="list-style-type: none"> • eventActions

Class name: displayModule	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays created modules • Displays form to create new modules 	Collaborators: <ul style="list-style-type: none"> • moduleActions

Class name: displayModule	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays created modules • Displays form to create new modules 	Collaborators: <ul style="list-style-type: none"> • moduleAction

Class name: HomePage/calendar	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays user's calendar by week, day, and month 	Collaborators: <ul style="list-style-type: none"> • HomePage/addEvent • userAction

Class name: HomePage/addEvent	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays form to create events 	Collaborators: <ul style="list-style-type: none"> • eventAction

Class name: homeCalendar	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a day preview of a user's calendar, including its events 	Collaborators: <ul style="list-style-type: none"> • eventAction

Class name: eventAction	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Sends events information, such as name, date and time, as well as fetching existing events from the backend 	Collaborators: <ul style="list-style-type: none"> • Types

Class name: eventReducer	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Tracks changes of events with regards to events 	Collaborators: <ul style="list-style-type: none"> • Types

Class name: companyCalendar	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays a day preview of a company's calendar, including its events 	Collaborators: <ul style="list-style-type: none"> • eventAction

Class name: CreateMeeting	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Allows users to create meetings. • Creates a room ID for the meeting 	Collaborators: <ul style="list-style-type: none"> • videoAction

Class name: Meeting	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Display video and audio of the current user • Shows users the video and audio of all the other users in the meeting 	Collaborators: <ul style="list-style-type: none"> • None

Class name: CreateMeeting	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays created meetings • Allows users to create meetings 	Collaborators: <ul style="list-style-type: none"> • videoAction

Class name: MeetingView	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays CreateMeeting module • Displays Modules • Displays calendar for user 	Collaborators: <ul style="list-style-type: none"> • videoAction • AuthHeader • CreateMeeting • displayModule

Backend CRC

EndPoint: GET(/profile/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none">Fetches the user at the given id from the databasePopulate the information for the specific user and return it	Collaborators: <ul style="list-style-type: none">Modelscontroller

EndPoint: GET(/profile/getUsers)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none">Gets all the current users with populated information	Collaborators: <ul style="list-style-type: none">Modelscontroller

EndPoint: GET(/profile/getImage/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none">Gets the images for the user referenced by id	Collaborators: <ul style="list-style-type: none">Modelscontroller

EndPoint: GET(/profile/getDocument/{name})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none">Gets the document by its name	Collaborators: <ul style="list-style-type: none">Modelscontroller

EndPoint: GET(/profile/editImage/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Saves the image to the user referenced by id 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/profile/addDocuments/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Add documents to the user referenced by id 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: POST(/register)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Gets the user information given from the frontend and saves it to the database 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/profile/edit/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Takes the info sent and updates it accordingly in the database. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/msg/getLogs/{user1}/{user2})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Gets the log msg between the 2 users 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/msg/saveLogs)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves a msg into the corresponding message log 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/login)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Checks for the user in the database with the unique email to see if a user matches. Then, checks the password of that user to see if it matches Sends confirmation to the frontend 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/profile/auth)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Checks for the user in the database with the unique email to see if a user matches. Then, checks the password of that user to see if it matches Authenticates user to be able to update the information Sends confirmation to the frontend 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: PUT(/profile/update/settings)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Displays current information of the user, such as name, username and email • Allows user to update their information • Sends confirmation to the frontend 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: POST(/createModule/:id)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Creates a new module given the id of the instructor who is creating it, and the name of the module. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/getrecmodules)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Gets the last 10 modules that have been created and send them to the frontend • Populates user who created the module before sending it to the backend 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/deletemodule)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Deletes module with the id that have been sent from the frontend in the request body 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/post)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Create a new post with the title, text, image and creates a post associated with the user id who created it, which is in the request body 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/comment)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Create a new comment with the commenter and the comment sent from the backend. • Checks if there is a post associated with the comment so it can reference it inside the comment. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/getrec)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Fetches the most recent posts from the database. • Populates the poster information and the comments related to that post. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/editpost)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Edits the body of a post with the post id sent from the backend in the request body. Checks if there is a post with the post id sent in the request body. Send a 404 status code if the latter is the case. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: PUT(/deletepost)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Deletes the post associated with the post id that is sent from the frontend in the request body 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: PUT(/post)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Create a new post with the title, text, image and creates a post associated with the user id who created it, which is in the request body 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: GET(/getLecture/{name})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Fetches the mp4 video which has the file name {name}. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/assignment/create)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Create a new assignment with the user and file name associated with it. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/assignment/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Gets the assignment with the associated id. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: PUT(/assignment/edit/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Edits the information of the assignment associated with id. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/assignments/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> • Gets all of the assignments that the instructor with id {id} has posted. 	Collaborators: <ul style="list-style-type: none"> • Models • controller

EndPoint: GET(/assignments/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Gets all of the assignments that the instructor with id {id} has posted. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: GET(/assignment/assignments/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Gets all of the assignments that the entrepreneur with id {id} has submitted. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: GET(/assignment/{id}/:name)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Gets all the assignments for the user with id {id} which has name {name}. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/assignment/marked/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves the document with the instructors markings and comments for the assignment with id {id}. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/assignment/marked/{id})	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves the document that the entrepreneur wants to submit for assignment with id {id}. 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/event/add/)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves the events that the instructor wants to submit in modules 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(user/event/add/)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves the events that the user wants to submit in their calendar 	Collaborators: <ul style="list-style-type: none"> Models controller

EndPoint: POST(/event/addCompany/)	
Parent Class: None Subclasses: None	
Responsibilities: <ul style="list-style-type: none"> Saves the events that the company wants to submit in modules 	Collaborators: <ul style="list-style-type: none"> Models controller

DESCRIPTION OF SYSTEM INTERACTION

Everyone is using macOS/Linux or a Linux virtual machine from windows, thus this is the recommended environment. The MERN framework is being used with MongoDB as the database which we are currently using locally. We are using Mongoose to speed up development. Express.js is used for the backend. React is used for the frontend with bootstrap, and Node.js is the runtime for the entire application. The assumption is that anyone who wants to develop or run the application should have all of these applications or frameworks installed.

SYSTEM ARCHITECTURE

Our group used a variation of the model-view-controller architecture discussed in class. In this design, we have a view, which represents the front end components of the project and what the user interacts with. Through this interaction, an event will be signaled to the controller. The controller will then figure out which is the correct response. The model is what talks to the controller and represents the database. It holds our schema as well as the information needed for the application. The controller may fetch or update information from the model as needed.

A link has been provided for a detailed explanation



<https://www.intuz.com/blog/guide-on-mvc-vs-mvvm>

SYSTEM DECOMPOSITION

Each page has its respective View, Controller, and Model components. The view component of a page interacts with the Controller to send user input and receive information to view to the page. Before sending, this component will do some basic input validation and ensure that the user does not enter bad input. The Controller interacts with the model to retrieve and add information to the database. The controller is also divided up into smaller components like the register controller which deals with all events related to registration. There will be validation in the controller to ensure that request failures are caught and reported appropriately. Furthermore in the model, the database schemas will have rules for each field which mongoDB will enforce so that bad input will never be posted into the database.