Uimpactify System Design

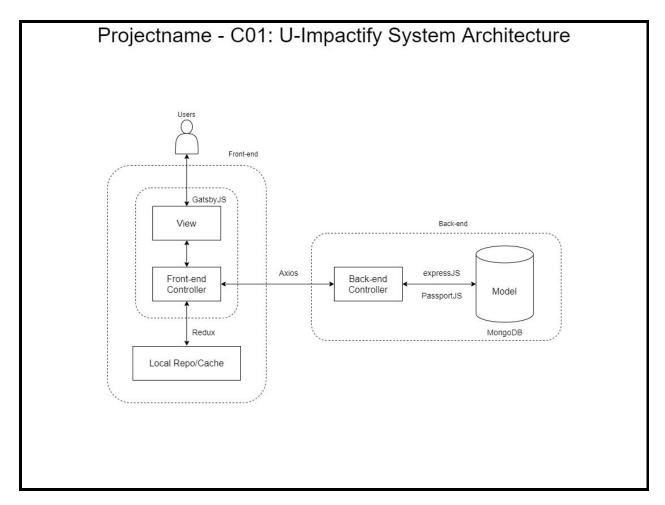
Projectname C01

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System Architecture Diagram



View: (GatsbyJS)

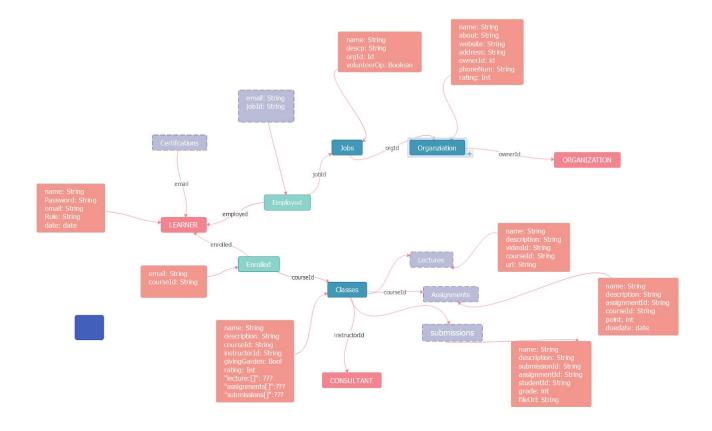
- Responsible for presenting the users with the pages that they can interact with **Front-end Controllers**: (Redux and Axios)
 - Responsible for linking the front-end and back-end with transferring and retrieving information between the front-end to the back end

Back-end Controllers: (ExpressJS, PassportJS)

- Responsible for receiving, processing, handling and implementing the requests **Model**: (ExpressJS, MongoDB)
 - Responsible for managing and manipulating the database (MongoDB)

Error handling is done throughout the components, mainly within the back-end controllers (ExpressJS and PassportJS) and Model (verify data using the database). For more info: https://app.swaggerhub.com/apis/Projectname-C01/UImpactify-Backend-API/1.0.0

Schema Design Diagram



CRC Cards

FRONT END

Pages

Nav Bar		
Parent:	Collaborators:	
Subclass:	Home	
Responsibility:	About	
- Links to each collaborator	Solutions	
	Pricing	
	Signup	
	Login	

Home	
Parent: Subclass: - What is UImpactify - Why UImpactify - Who we serve - Testimonials Responsibility:	Collaborators: NavBar Signup Solutions
 Provide users with an overview of Ulmpactify as a product 	

Solutions	
Parent: Subclass: - Solutions Teacher - Solutions Students - Solutions Page - Explore classes Responsibility: - Provide either teacher or students information about what makes Ulmpactify pop out from other	Collaborators: NavBar Signup

competitors	
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Solutions teacher	
Parent: Solutions	
Subclass:	
 WhatMakesU-ImpactifySpeical_I 	
 ImgTitleDescComponent_I 	
Responsibility:	
 Provide teachers information on what Ulmpactify provides for them 	

Solutions student	
Parent: Solutions Subclass: - WhatMakesU-ImpactifySpeical_S - ImgTitleDescComponent_S - DevelopNewSkillsAndnowledge_S	
Responsibility: - Provide students information on what Ulmpactify provides for them	

Pricing		
Parent:	Collaborators:	
Subclass:	Navbar	
Pricing OptionsQuestionsIncluded Plans	Signup	
Responsibility: - Shows pricing details for Uimpactify		

Parent: Subclass:

- DashboardLayoutS
- DashboardLayoutC
- DashboardLayoutl
- LoadingComponent

Responsibility:

- Home dashboard for users once logged in

Collaborators:

services/authorization/sign-in

upload-assignments

Parent: Subclass:

Responsibility:

- Display a page that lets a consultant upload a assignments

Collaborators:

UploadAssignments

create-lecture

Parent:

Subclass:

Responsibility:

 Display a page that lets a consultant upload a lecture **Collaborators:**

create-lectures

Pricing

Parent:

Subclass:

- Pricing Options
- Questions
- Included Plans

Responsibility:

 Shows pricing details for Uimpactify

Collaborators:

Navbar Signup

Dashboards

dashboard/achievements	
Parent:	Collaborators:
Subclass: - DashboardLayoutS	
Responsibility:	
- Page to show achievements	

dashboard/billing&Marketing		
Parent: Subclass: - DashboardLayoutC Responsibility: - Page to show billing and marketing	Collaborators:	

dashboard/classes		
Parent: Subclass: - DashboardLayoutS - DashboardLayoutC - DashboardLayoutI - ExploreClassesPage - LoadingComponent - CreateClass Responsibility: - Page to show classes	Collaborators: services/authorization/sign-in	

dashboard/community	
Parent: Subclass: - DashboardLayoutS - DashboardLayoutC	Collaborators:

Responsibility: - Page component for community

dashboard/mailbox		
Parent:	Collaborators:	
Subclass:		
 DashboardLayoutS 		
 DashboardLayoutC 		
Responsibility:		
- Page component for mailbox		

dashboard/opportunities		
Parent: Subclass: - DashboardLayoutl Responsibility: - Page for opportunities	Collaborators:	

dashboard/organization		
Parent: Subclass:	Collaborators:	
- DashboardLayoutS		
Responsibility: - Page template for organization		

dashboard/reviews&Feedback	
Parent: Subclass:	Collaborators:
- DashboardLayoutC	
Responsibility: - Page for reviews and feedback	

dashboard/scheduling	
Parent: Subclass:	Collaborators:
DashboardLayoutSDashboardLayoutCResponsibility:	
- Page for scheduling	

dashboard/setting	
Parent: Collaborators:	
Subclass:	
 DashboardLayoutS 	
- DashboardLayoutC	
- DashboardLayoutl	
Responsibility:	
- Page for setting	

dashboard/socialInitiatives		
Parent: Subclass: - DashboardLayoutS Responsibility: - Page for social initiatives	Collaborators:	

students/explore-organisation		
Parent: Subclass: - DashboardLayoutsl	Collaborators:	
Responsibility: - Page for exploring organization		

initiative/create-organisation	
Parent: Subclass: - Layout Responsibility: - Page for creating organization	Collaborators:
organisation	n/create-jobs
Parent: Subclass: - Layout Responsibility: - Page for creating jobs	Collaborators:
Services	rization/sign-up
Parent: Subclass: Sign Up page Responsibility: - Create POST request to post users	Sign Up
services/regis	tration/Sign-in
Parent: Subclass: Responsibility: - Authenticated user for sign-in and sign-out processes	Sign in
repoRemote,	authorization
Parent:	Collaborators:

Subclass: Responsibility: - Acts as a middleware for frontend to back end connection for logging/registering users events Axios Redux repoLocal/authorization

repoRemote/classes	
Parent:	Collaborators:
Subclass:	Axios
Responsibility:	Redux
 Acts as a middleware for frontend to back end connection for get/post/updating classes 	repoLocal/classes

repoRemote/organization	
Parent: Subclass: Responsibility: - Acts as a middleware for frontend to back end connection for get/post/updating organization	Collaborators: Axios Redux repoLocal/organization

repoRemote/jobs	
Parent: Subclass: Responsibility: - Acts as a middleware for frontend to back end connection for get/post/updating jobs	Collaborators: Axios Redux repoLocal/jobs

repoLocal/authorization	
Parent: Subclass: Responsibility:	Collaborators:

- Bundles and handles all actions related to user interactions

repoLocal/classes	
Parent: Subclass: Responsibility: - Bundles and handles all actions related to user interactions	Collaborators: Axios

repoLocal/organization	
Parent: Subclass: Responsibility: - Bundles and handles all actions related to user interactions	Collaborators: Axios

repoLocal/jobs	
Parent: Subclass: Responsibility: - Bundles and handles all actions related to user interactions	Collaborators: Axios

repoLocal/store	
Parent: Subclass:	Collaborators: Redux
Responsibility:	Classes
 Stores Json objects from easy access to the front end 	Jobs organization authorization

UI

initative/CreateOrg

Parent:	Collaborators:
Subclass:	Material UI
Responsibility: - Contains frontend endpoints that allows initiatives to set up their organizations information	Form

organization/CreateJob	
Parent: Subclass: Responsibility: - Contains frontend endpoints that allows initiatives to set up their job opportunities	Collaborators: Material UI Form

Student/Explore Classes	
Parent: Subclass: Responsibility: - Display a dynamic page of all the available classes	Collaborators: LoadingComponent ClassCalls

Student/Explore Classes	
Parent: Subclass: Responsibility: - Display a dynamic page of all the available Jobs	Collaborators: LoadingComponent OrgCalls

BACK END

server	
Parent:	Collaborators:

Subclass: Responsibility:	Routes/index
 Handles connection to the MongoDB database 	

passportConfig	
Parent: Subclass: Responsibility: - Perform authentication checks for users to log in	Collaborators: User

Routes

Routes/index Parent: Subclass: - AuthRoutes Responsibility: - Receive and compiles requests from API endpoints from each of the route classes Collaborators: Routes/AuthRoutes Routes/ClassRoutes Routes/JobRoutes Routes/OrganizationRoutes

Routes/AuthRoutes	
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses Authenticate to process the requests	Collaborators: Authenticate

Routes/ClassRoutes		
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses ClassActionsto process the requests	Collaborators: ClassActions	

Routes/JobRoutes	
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses JobAction to process the requests	Collaborators: JobAction

Routes/OrganizationRoutes

Parent: Subclass: Collaborators: OrganizationAction Responsibility: - Receive requests from API that endpoints and uses OrganizationAction to process the requests Collaborators: OrganizationAction

Routes/AssignmentRoutes	
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses AssignmentAction to process the requests	Collaborators: AssignmentAction

Routes/EnrolledRoutes		
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses EnrolledAction to process the requests	Collaborators: EnrolledAction	

Routes/SubmissionRoutes		
Parent: Subclass: Responsibility: - Receive requests from API that endpoints and uses SubmissionAction to process the requests	Collaborators: SubmissionAction	

Routes/LectureRoutes	
Parent:	Collaborators:
Subclass:	LectureAction

Responsibility:

 Receive requests from API that endpoints and uses LectureAction to process the requests

Authenticate Parent: Subclass: Responsibility: - Receive requests from Routes/AuthRoutes and send the information to UserActions to be handled Authenticate Collaborators: UserActions passportConfig

UserActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete user record into MongoDB	Collaborators: User

ClassActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Classes record into MongoDB	Collaborators: Class

OrganizationActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Organization record into MongoDB	Collaborators: Organization

JobActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Job record into MongoDB	Collaborators: Job

AssignmentActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Assignment record into MongoDB	Collaborators: Assignment

EnrolledActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Enrolled record into MongoDB	Collaborators: Enrolled

LectureActions	
Parent:	Collaborators:
Subclass: Responsibility: - Inserts/Get/Update/Delete Lecture record into MongoDB	Lecture

LectureActions	
Parent: Subclass: Responsibility: - Inserts/Get/Update/Delete Lecture Submission into MongoDB	Collaborators: Submission

Schemas

User	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for User	

Class	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for Class	

Organization	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for Organization	

Jobs	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for Jobs	

Enrolled

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Assignment	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for Assignment	

Lecture	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for Lectures	

Submissions	
Parent: Subclass: Responsibility: - MongoDB object. Sets the schema for submissions	