

Uimpactify System Design

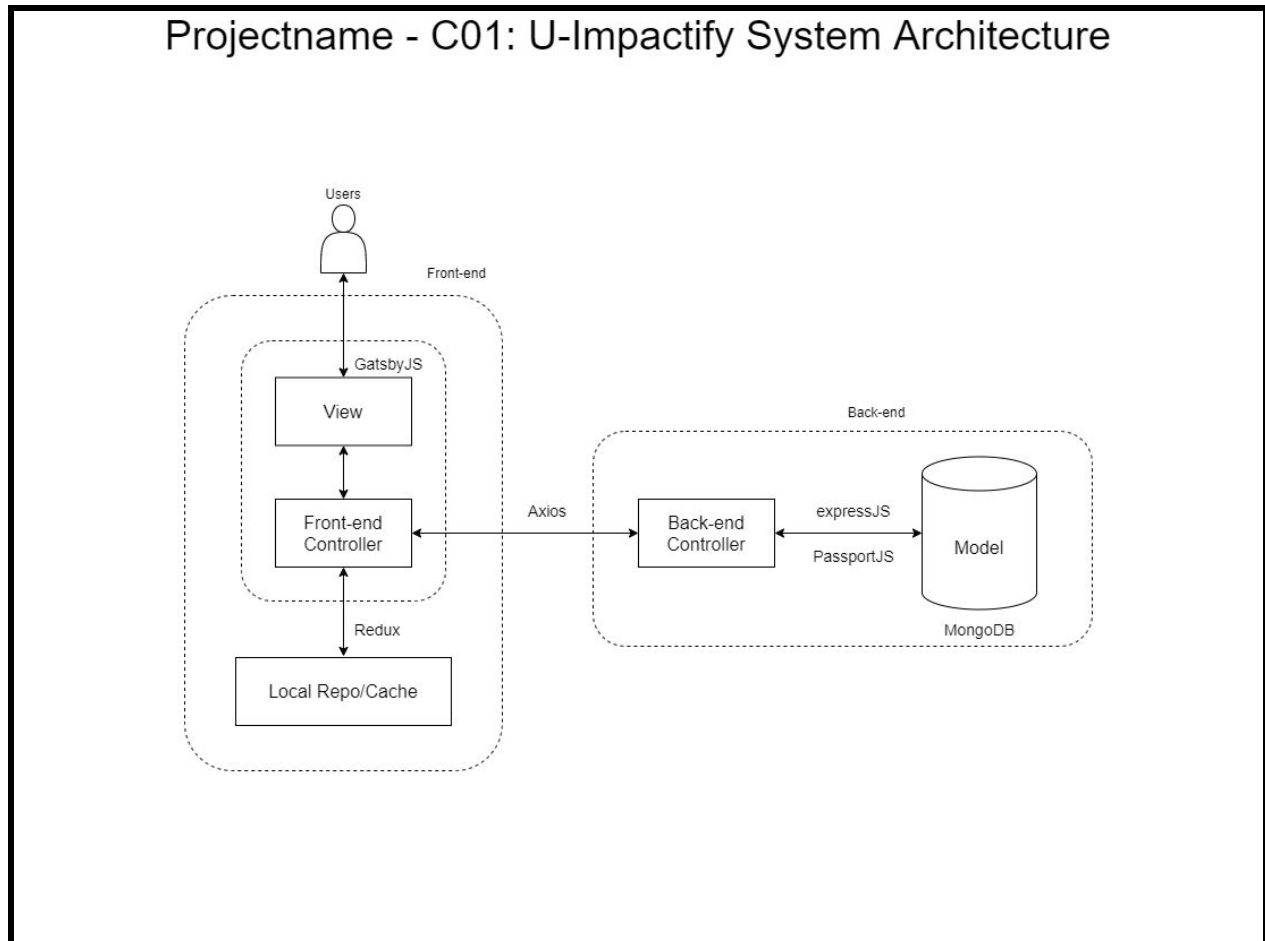
Projectname C01

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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>

CRC Cards

FRONT END

Pages

Nav Bar	
Parent: Subclass: Responsibility: <ul style="list-style-type: none">- Links to each collaborator	Collaborators: Home About Solutions Pricing Signup Login

Home	
Parent: Subclass: <ul style="list-style-type: none">- What is Ulmpactify- Why Ulmpactify- Who we serve- Testimonials Responsibility: <ul style="list-style-type: none">- Provide users with an overview of Ulmpactify as a product	Collaborators: NavBar Signup Solutions

Solutions	
Parent: Subclass: <ul style="list-style-type: none">- Solutions Teacher- Solutions Students- Solutions Page- Explore classes Responsibility: <ul style="list-style-type: none">- Provide either teacher or students information about what makes	Collaborators: NavBar Signup

UImpactify pop out from other competitors	
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Solutions teacher	
Parent: Solutions Subclass: <ul style="list-style-type: none"> - WhatMakesU-ImpactifySpeical_I - ImgTitleDescComponent_I Responsibility: <ul style="list-style-type: none"> - Provide teachers information on what UImpactify provides for them 	

Solutions student	
Parent: Solutions Subclass: <ul style="list-style-type: none"> - WhatMakesU-ImpactifySpeical_S - ImgTitleDescComponent_S - DevelopNewSkillsAndknowledge_S Responsibility: <ul style="list-style-type: none"> - Provide students information on what UImpactify provides for them 	

Pricing	
Parent: Subclass: <ul style="list-style-type: none"> - Pricing Options - Questions - Included Plans Responsibility: <ul style="list-style-type: none"> - Shows pricing details for Uimpactify 	Collaborators: Navbar Signup

Dashboard	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC - DashboardLayoutI - LoadingComponent Responsibility: <ul style="list-style-type: none"> - Home dashboard for users once logged in 	Collaborators: services/authorization/sign-in

dashboard/achievements	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS Responsibility: <ul style="list-style-type: none"> - Page to show achievements 	Collaborators:

dashboard/billing&Marketing	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutC Responsibility: <ul style="list-style-type: none"> - Page to show billing and marketing 	Collaborators:

dashboard/classes	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC - DashboardLayoutI - ExploreClassesPage - LoadingComponent 	Collaborators: services/authorization/sign-in

<ul style="list-style-type: none"> - CreateClass Responsibility: <ul style="list-style-type: none"> - Page to show classes 	
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dashboard/community	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC Responsibility: <ul style="list-style-type: none"> - Page component for community 	Collaborators:

dashboard/mailbox	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC Responsibility: <ul style="list-style-type: none"> - Page component for mailbox 	Collaborators:

dashboard/opportunities	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutI Responsibility: <ul style="list-style-type: none"> - Page for opportunities 	Collaborators:

Dashboards

dashboard/organization	
Parent: Subclass:	Collaborators:

<ul style="list-style-type: none"> - DashboardLayoutS Responsibility: <ul style="list-style-type: none"> - Page template for organization 	
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dashboard/reviews&Feedback	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutC Responsibility: <ul style="list-style-type: none"> - Page for reviews and feedback 	Collaborators:

dashboard/scheduling	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC Responsibility: <ul style="list-style-type: none"> - Page for scheduling 	Collaborators:

dashboard/setting	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS - DashboardLayoutC - DashboardLayoutI Responsibility: <ul style="list-style-type: none"> - Page for setting 	Collaborators:

dashboard/socialInitiatives	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutS 	Collaborators:

Responsibility: <ul style="list-style-type: none"> - Page for social initiatives 	
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students/explore-organisation	
Parent: Subclass: <ul style="list-style-type: none"> - DashboardLayoutsI Responsibility: <ul style="list-style-type: none"> - Page for exploring organization 	Collaborators:

initiative/create-organisation	
Parent: Subclass: <ul style="list-style-type: none"> - Layout Responsibility: <ul style="list-style-type: none"> - Page for creating organization 	Collaborators:

organisation/create-jobs	
Parent: Subclass: <ul style="list-style-type: none"> - Layout Responsibility: <ul style="list-style-type: none"> - Page for creating jobs 	Collaborators:

Services

services/authorization/sign-up	
Parent: Subclass: Sign Up page	Sign Up

Responsibility: <ul style="list-style-type: none"> - Create POST request to post users 	
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services/registration/Sign-in	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Authenticated user for sign-in and sign-out processes 	Sign in

repoRemote/authorization	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Acts as a middleware for frontend to back end connection for logging/registering users events 	Collaborators: Axios Redux repoLocal/authorization

repoRemote/classes	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Acts as a middleware for frontend to back end connection for get/post/updating classes 	Collaborators: Axios Redux repoLocal/classes

repoRemote/organization	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - 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: <ul style="list-style-type: none"> - Bundles and handles all actions related to user interactions 	Collaborators:

repoLocal/classes	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Bundles and handles all actions related to user interactions 	Collaborators: Axios

repoLocal/organization	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Bundles and handles all actions related to user interactions 	Collaborators: Axios

repoLocal/jobs	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Bundles and handles all actions related to user interactions 	Collaborators: Axios

repoLocal/store	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Stores Json objects from easy access to the front end 	Collaborators: Redux Classes Jobs organization authorization

BACK END

server	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Handles connection to the MongoDB database 	Collaborators: Routes/index

passportConfig	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Perform authentication checks for users to log in 	Collaborators: User

Routes

Routes/index	
Parent: Subclass: <ul style="list-style-type: none">- AuthRoutes Responsibility: <ul style="list-style-type: none">- 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: <ul style="list-style-type: none">- Receive requests from API that endpoints and uses Authenticate to process the requests	Collaborators: Authenticate

Routes/ClassRoutes	
Parent: Subclass: Responsibility: <ul style="list-style-type: none">- Receive requests from API that endpoints and uses ClassActionsto process the requests	Collaborators: ClassActions

Routes/JobRoutes	
Parent: Subclass: Responsibility: <ul style="list-style-type: none">- Receive requests from API that endpoints and uses JobAction to process the requests	Collaborators: JobAction

Routes/OrganizationRoutes	
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Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Receive requests from API that endpoints and uses OrganizationAction to process the requests 	Collaborators: OrganizationAction
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Authenticate	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Receive requests from Routes/AuthRoutes and send the information to UserActions to be handled 	Collaborators: UserActions passportConfig

UserActions	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Inserts/Get/Update/Delete user record into MongoDB 	Collaborators: User

ClassActions	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Inserts/Get/Update/Delete Classes record into MongoDB 	Collaborators: Class

OrganizationActions	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Inserts/Get/Update/Delete Organization record into MongoDB 	Collaborators: Organization

JobActions	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - Inserts/Get/Update/Delete Job record into MongoDB 	Collaborators: Job

Schemas

User	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - MongoDB object. Sets the schema for User 	

Class	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - MongoDB object. Sets the schema for Class 	

Organization	
Parent: Subclass: Responsibility: <ul style="list-style-type: none"> - MongoDB object. Sets the schema for Organization 	

Jobs	
Parent: Subclass: Responsibility: <ul style="list-style-type: none">- MongoDB object. Sets the schema for Jobs	