CSCC01 System Design

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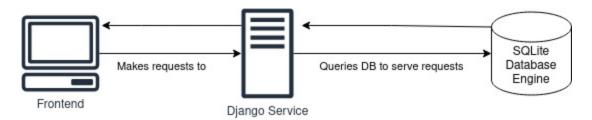
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System Architecture

Our app follows a three tiered framework. The frontend is in javascript using React and is served by one server; this is the presentation layer. The backend is made up of a Django service which is the logic layer. The service uses a SQLite database to store data which forms the data layer.

Our service uses the REST protocol. All requests from the frontend are served with JSON responses from our REST endpoints. The service is responsible for making calls to the database engine when serving requests.



For further reference about three tiered architectures see the following link:

https://www.ibm.com/cloud/learn/three-tier-architecture

System Decomposition

A user is able to retrieve the frontend by making a request to the frontend server. The frontend can then be used to make requests to the service. The service will serve requests by using relevant inputs from the frontend to query the database and then return a relevant response.

The frontend is built so that unauthorized requests are only possible to our login/register routes. On registration or login, the frontend will make a request to the backend; if valid, the backend will create a session and send back a session cookie to the frontend. Using this session cookie the user will be able to make further requests for other useful functionality.

The frontend takes the approach of limiting opportunities for bad requests by constraining user input. For example, many of our forms will not allow the user to make a request until they have properly filled out the form. In the case where a user is able to make a request with bad input, the Django service will try to serialize the input or find the requested resource in the database. If the backend fails to validate the input or find the requested resource, it will return an error 400 or 404 in which case the frontend will display a relevant error message to the user.

System Interaction Description

The frontend requires the user to have Node(^18.0.0) and npm(^8.19.1) installed in order to run and install its dependencies present in package.json. Furthermore, while in development the frontend is served over localhost and runs on port 3000. The backend assumes the frontend is running on port 3000 in order to whitelist it for CORS. The backend requires Python 3.10.7 and we have provided a requirements.txt file that contains all of its dependencies.

Assumptions about having Node, npm and Python installed can be eliminated by using the docker-compose file we have provided. In this case, the user must have a recent version of docker and docker-compose installed.

The full stack can be run on Linux, Mac or Windows. Users will need a web browser such as Firefox or Chrome to access the application.

CRC Cards:

Frontend:

The root of all files is src.

For frontend components, we consider a child component to be a collaborator. It does not have an "is-a" relationship with its parent. Rather, it's parent "has-a" child component of that type.

Apart from the index.tsx file at the root; there are many index.tsx files in sub-directories. These are used to consolidate named exports and offer a simple name space for other components to import from.

Class Name	index.tsx
Parent/Subclass	None
Responsibilities:	 Provides routing, query client for react query and localization for dates and times and user auth context for all child components Provides basic styling of the application Hosts the App
Collaborators:	Appcontexts/UserContext.tsx

Class Name	contexts/UserContext.tsx
Parent/Subclass	None
Responsibilities:	 Determines whether the user is logged in or not Provides user data such as username and role to child components The Contexts folder additionally exports a utility function that makes using the UserContext easier (simplifies the types); for classification/CRC purposes we consider it to be a part of UserContext

Collaborators:	Index.tsxApp.tsxpages/Login/Login.tsx
	Pages/Login/Login.csx

Class Name	App.tsx
Parent/Subclass	None
Responsibilities:	 Does not allow pages to be rendered until user auth state is determined Provides routing to all other pages of the application
Collaborators:	 components/PrivateRoute.tsx pages/CreateProject/CreateProjectPage.tsx pages/Login/.Login.tsx pages/Register/Register.tsx pages/CreateBio/CreateBio.tsx pages/ViewProject/ViewProject.tsx pages/Matching/MatchingPage.tsx page/Projects/ProjectsPage.tsx contexts/UserContext.tsx

Class Name	components/PrivateRoute.tsx
Parent/Subclass	None
Responsibilities:	 Redirects users to login page if they try to access a page that they are not authorized to access
Collaborators:	App.tsxpages/NavBar/NavBar.tsx

Class Name	pages/Login/Login.tsx
Parent/Subclass	None
Responsibilities:	Allows users to login to the application

contexts/UserContext.tsxapi/api-client.tsx	Collaborators:
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Class Name	api/api-client.tsx
Parent/Subclass	None
Responsibilities:	Provides all calls that will be made to the service
Collaborators:	 pages/Login/.Login.tsx pages/Register/Register.tsx pages/CreateProjectPage/CreateProjectPage.tsx pages/Projects/ProjectsPage.tsx pages/CreateBio/CreateBio.tsx pages/ViewProject/ViewProject.tsx pages/Matching/MatchingPage.tsx page/Projects/ProjectsPage.tsx

Class Name	api/api-client-types.tsx
Parent/Subclass	None
Responsibilities:	Provides the types for all requests/responses made to the service
Collaborators:	api/api-client.tsx

Class Name	api/constants.tsx
Parent/Subclass	None
Responsibilities:	Provides configuration variables to the api-client
Collaborators:	api/api-client.tsx

Class Name	Pages/Register/Register.tsx
Parent/Subclass	None
Responsibilities:	 Allows the user to register for an account Sets user auth state once they have registered
Collaborators:	 App.tsx api/api-client.tsx api/api-client-types.tsx contexts/UserContext.tsx

Class Name	pages/CreateProjectPage/CreateProjectPage.tsx
Parent/Subclass	None
Responsibilities:	 Manages the request to create a project Renders project creation form or resulting invite code depending on whether the request has been made yet
Collaborators:	 App.tsx api/api-client.tsx api-client-types.tsx pages/CreateProjectPage/components/CreateProjectForm.tsx

Class Name	pages/CreateProjectPage/components/CreateProjectForm.tsx
Parent/Subclass	None
Responsibilities:	Renders the form that allows professors to create projects
Collaborators:	 api-client-types.tsx pages/CreateProjectPage/components/interfaces.tsx pages/CreateProjectPage/components/styles.tsx pages/CreateProjectPage/components/GroupSlider.tsx pages/CreateProjectPage/components/EndDatePicker.tsx hooks/useOnMount.tsx

Class Name	pages/CreateProjectPage/components/interfaces.tsx
Parent/Subclass	None
Responsibilities:	 Provides common interfaces for CreateProjectPage related components to use
Collaborators:	 pages/CreateProjectPage/components/CreateProjectForm.tsx pages/CreateProjectPage/components/EndDatePicker.tsx pages/CreateProjectPage/components/GroupSlider.tsx

Class Name	pages/CreateProjectPage/components/styles.tsx
Parent/Subclass	None
Responsibilities:	 Provides common styles used by CreateProjectPage related components
Collaborators:	 pages/CreateProjectPage/components/CreateProjectForm.tsx pages/CreateProjectPage/components/InviteCode.tsx

Class Name	pages/CreateProjectPage/components/InviteCode.tsx
Parent/Subclass	None
Responsibilities:	Renders invite code and allows user to copy it once project has been created
Collaborators:	 pages/CreateProjectPage/components/CreateProjectForm.tsx pages/CreateProjectPage/components/Copylcon.tsx pages/CreateProjectPage/components/styles.tsx

Class Name	pages/CreateProjectPage/components/Copylcon.tsx
Parent/Subclass	None
Responsibilities:	Allows a user to copy text by clicking on it

Collaborators:	 pages/CreateProjectPage/components/InviteCode.tsx
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Class Name	pages/CreateProjectPage/components/EndDatePicker.tsx
Parent/Subclass	None
Responsibilities:	Allows the user to pick a date and converts it to UTC time
Collaborators:	 pages/CreateProjectPage/components/CreateProjectForm.tsx pages/CreateProjectPage/components/interfaces.tsx

Class Name	pages/CreateProjectPage/components/GroupSlider.tsx
Parent/Subclass	None
Responsibilities:	Allows user to specify the group size on create project form
Collaborators:	 pages/CreateProjectPage/components/CreateProjectForm.tsx pages/CreateProjectPage/components/interfaces.tsx

Class Name	pages/Projects/components/JoinProject
Parent/Subclass	None
Responsibilities:	 Allows a user to join a project by entering an invite code Shows an error if user enters incorrect code
Collaborators:	pages/Projects/ProjectsPage

Class Name	pages/Projects/components/CreateProjectButton
Parent/Subclass	None
Responsibilities:	 Redirects user to Create Project Page (does not directly collaborate with page, since React router handles redirects)
Collaborators:	pages/Projects/ProjectsPage

Class Name	hooks/useOnMount.tsx
Parent/Subclass	None
Responsibilities:	Exports a hook that runs an effect only once
Collaborators:	pages/CreateProjectPage/components/EndDatePicker.tsx

Class Name	hooks/useNavigateToProject.tsx
Parent/Subclass	None
Responsibilities:	Navigates to the project home page of the given project id
Collaborators:	 pages/CreateBio/CreateBio pages/Matching/components/Matched.tsx pages/Matching/components/NoCandidates.tsx pages/Matching/components/SingleCandidate.tsx

Class Name	api/constants.tsx
Parent/Subclass	None
Responsibilities:	Exports constants used by the api client
Collaborators:	api/api-client.tsx

Class Name	pages/Projects/ProjectsPage
Parent/Subclass	None
Responsibilities:	 Renders the ProjectList, JoinProject, and CreateProjectButton components
Collaborators:	 pages/Projects/components/JoinProject pages/Projects/components/CreateProjectButton pages/Projects/components/ProjectList pages/Projects/components/ProjectCard

api/api-client.tsx	
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Class Name	pages/Projects/components/ProjectList
Parent/Subclass	None
Responsibilities:	 Displays a list of project cards for each project a user is involved with
Collaborators:	pages/Projects/ProjectsPagepages/Projects/components/ProjectCard

Class Name	pages/Projects/components/ProjectCard
Parent/Subclass	None
Responsibilities:	Displays the name, professor, and due date for a single project
Collaborators:	pages/Projects/components/ProjectListpages/Projects/ProjectsPage

Class Name	pages/NavBar/NavBar.tsx
Parent/Subclass	None
Responsibilities:	 Displays a drawer with different options such as logout and navigating to other pages
Collaborators:	components/PrivateRoute.tsx

Class Name	pages/CreateBio/Components/AddSkillInput.tsx
Parent/Subclass	None
Responsibilities:	Displays input and button to add the user's skills

Collaborators:	 pages/CreateBio/Components/SkillDisplay.tsx pages/CreateBio/Components/styles.tsx pages/CreateBio/Components/interfaces.tsx

Class Name	pages/CreateBio/Components/SkillDisplay.tsx
Parent/Subclass	None
Responsibilities:	Accepts an array of skills and displays them as chips
Collaborators:	 pages/CreateBio/Components/AddSkillInput.tsx pages/CreateBio/Components/styles.tsx pages/CreateBio/Components/interfaces.tsx

Class Name	pages/ViewProject/components/EditButton.tsx
Parent/Subclass	None
Responsibilities:	 Displays a create/edit bio button depending on user and navigates to the correct page
Collaborators:	pages/ViewProject/components/ProjectInfo.tsx

Class Name	pages/ViewProject/components/MatchButton.tsx
Parent/Subclass	None
Responsibilities:	 Displays a try matching button and navigates to the correct page
Collaborators:	pages/ViewProject/components/ProjectInfo.tsx

Class Name	pages/ViewProject/components/ProjectInfo.tsx
Parent/Subclass	None
Responsibilities:	Displays project information and the required buttons
Collaborators:	 pages/ViewProject/components/MatchButton.tsx pages/ViewProject/components/EditButton.tsx pages/ViewProject/components/GroupButton.tsx

Class Name	pages/ViewProject/ProjectView.tsx
Parent/Subclass	None
Responsibilities:	Renders project info alongside the buttons
Collaborators:	 pages/ViewProject/components/EditButton.tsx pages/ViewProject/components/MatchButton.tsx pages/ViewProject/components/ProjectInfo.tsx

Class Name	pages/CreateBio/CreateBio
Parent/Subclass	None
Responsibilities:	Lets the user edit their bio
Collaborators:	 pages/CreaeteBio/components/YearDropDown pages/CreaeteBio/components/PronounDropDown pages/CreaeteBio/components/SubmitBioButton

Class Name pages/CreaeteBio/components/YearDropDown

Parent/Subclass	None
Responsibilities:	Lets the user select their year of study
Collaborators:	pages/CreateBio/CreateBio

Class Name	pages/CreaeteBio/components/PronounDropDown
Parent/Subclass	None
Responsibilities:	Lets the user select their pronouns
Collaborators:	pages/CreateBio/CreateBio

Class Name	pages/CreateBio/components/SubmitBioButton
Parent/Subclass	None
Responsibilities:	Lets the user save their bio
Collaborators:	pages/CreateBio/CreateBio

Class Name	pages/Matching/MatchingPage.tsx
Parent/Subclass	None
Responsibilities:	Calls api to get candidate to show to user that they can match with
Collaborators:	 pages/Matching/components/Matched.tsx pages/Matching/components/NoCandidates.tsx pages/Matching/components/CandidateSlider.tsx pages/Matching/components/SingleCandidate.tsx pages/Matching/components/styles.tsx

Class Name	pages/Matching/components/SingleCandidate.tsx
Parent/Subclass	None
Responsibilities:	Displays a single user that can be liked or disliked
Collaborators:	 pages/Matching/MatchingPage.tsx pages/Matching/components/styles.tsx pages/Matching/components/AvatarIcon.tsx

Class Name	pages/Matching/components/AvatarIcon.tsx
Parent/Subclass	None
Responsibilities:	Renders the users Avatar
Collaborators:	pages/Matching/components/SingleCandidate.tsx

Class Name	pages/Matching/components/CandidateSlider.tsx
Parent/Subclass	None
Responsibilities:	Renders a slider and displays multiple single candidate components within it
Collaborators:	pages/Matching/SingleCandidate.tsxpages/Matching/MatchingPage.tsx

Class Name	pages/Matching/components/CandidateDecision.tsx
Parent/Subclass	None
Responsibilities:	 Allows user to make a decision on whether they want to match with the current user/group.
Collaborators:	pages/Matching/MatchingPage.tsx

Class Name	pages/Matching/components/NoCandidates.tsx
Parent/Subclass	None
Responsibilities:	Displays a single user that can be liked or disliked
Collaborators:	pages/Matching/MatchingPage.tsxpages/Matching/components/styles.tsx

Class Name	pages/Matching/components/Matched.tsx
Parent/Subclass	None
Responsibilities:	Informs the user that they matched with another user
Collaborators:	pages/Matching/MatchingPage.tsxpages/Matching/components/styles.tsx

Class Name	pages/Matching/components/styles.tsx
Parent/Subclass	None
Responsibilities:	Holds styles used by matching components
Collaborators:	 pages/Matching/MatchingPage.tsx pages/Matching/components/Matched.tsx pages/Matching/MatchingPage.tsx pages/Matching/components/SingleCandidate.tsx

Class Name	pages/StudentsList/StudentsListPage
Parent/Subclass	None
Responsibilities:	Displays the list of student in the current project
Collaborators:	None

Class Name	pages/ViewGroup/components/ProjectButton.tsx
Parent/Subclass	None
Responsibilities:	 Displays a go back to project to go back to the project info page
Collaborators:	pages/ViewGroup/ViewGroup.tsx

Class Name	pages/ViewGroup/ViewGroup.tsx
Parent/Subclass	None
Responsibilities:	Displays the group that the user has joined
Collaborators:	 pages/ViewGroup/components/ProjectButton.tsx pages/ViewGroup/components/LeaveButton.tsx

Class Name	 pages/ViewProject/components/GroupButton.tsx
Parent/Subclass	None
Responsibilities:	 Displays a view group button depending on user having a group
Collaborators:	pages/ViewProject/components/ProjectInfo.tsx

Class Name	pages/ViewGroup/components/LeaveButton.tsx
Parent/Subclass	None
Responsibilities:	Displays a leave group button
Collaborators:	

BACKEND

Models

Accounts

Class Name	accounts.models.User
Parent/Subclass	AbstractBaseUser, Permissions Mixin
Responsibilities:	 Contain: Email Name Is_active Is_student Is_professor uuid Is_admin Is_staff Is_superuser Hashing passwords
Collaborators:	 accounts.models.Student accounts.models.Professor accounts.models.UserManager accounts.serializers.UserRegisterSerializer accounts.serializers.UserRegisterSerializer accounts.admin.CustomUserAdmin

Class Name	accounts.models.UserManager
Parent/Subclass	BaseUserManager
Responsibilities:	Add a custom create_user method to the Users
Collaborators:	accounts.models.User

Class Name	accounts.models.Professor
Parent/Subclass	Model
Responsibilities:	Store all the professor related fields
Collaborators:	accounts.models.User

Class Name	accounts.models.Student
Parent/Subclass	Model
Responsibilities:	Store all the student related fields
Collaborators:	 accounts.models.User projects.serializers.ProjectProfileSerializer projects.serializers.ProjectProfileSerializerBeforeDate

Class Name	groupr.CsrfExemptSessionAuthentication
Parent/Subclass	SessionAuthentication
Responsibilities:	 Enable sessions authentication for the app but disable CSRF protections
Collaborators:	•

Class Name	accounts.admin.CustomUserAdmin
Parent/Subclass	UserAdmin
Responsibilities:	 Customize the form used to edit User database entries in django admin
Collaborators:	accounts.models.User

Class Name	accounts.serializers.UserRetrievalSerializer
Parent/Subclass	Serializer
Responsibilities:	Serialize a User object to JSON
Collaborators:	 accounts.models.User accounts.serializers.ProfessorSerializer accounts.views.LoginView accounts.views.RegisterView accounts.views.UserRetrievalView

Class Name	accounts.serializers.UserRegisterSerializer
Parent/Subclass	Serializer
Responsibilities:	 Deserialize the User json to validate the fields and create a user object
Collaborators:	accounts.models.User

Class Name	accounts.serializers.ProfessorSerializer
Parent/Subclass	Serializer
Responsibilities:	 Serialize a professor object, discarding any sensitive user information before returning a JSON
Collaborators:	accounts.serializers.UserRetrievalSerializer

Class Name	accounts.serializers.ProfessorSerializer
Parent/Subclass	Serializer

Responsibilities:	 Serialize a professor object, discarding any sensitive user information before returning a JSON
Collaborators:	accounts.serializers.UserRetrievalSerializer

Class Name	accounts.serializers.UserRetrievalSerializer
Parent/Subclass	Serializer
Responsibilities:	Serialize a User object to JSON
Collaborators:	 accounts.serializers.UserIDRetrievalSerializer projects.serializers.ProjectMembersSerializer

Class Name	accounts.serializers.CandidateSerializer
Parent/Subclass	Serializer
Responsibilities:	 Serialize a student object, discarding any sensitive user information before returning a JSON
Collaborators:	projects.views.ProjectGetCandidate

Projects

Class Name	projects.models.Project
Parent/Subclass	Model
Responsibilities:	 Contain: Project_name Min_group_size Max_group_size End_date Description

	 Join_code Students Professor Generate a join code on object creation
Collaborators:	 accounts.models.Student accounts.models.Professor projects.serializers.ProjectSerializer

Class Name	projects.models.ProjectProfile
Parent/Subclass	Model
Responsibilities:	 Contain: bio (rich text) Pronouns (enum) Year (enum) Skills (json) Contact_details (rich text) Student key Project key Enforce enum choices
Collaborators:	 projects.serializers.ProjectProfileSerializer projects.serializers.ProjectProfileSerializerBeforeDate

Class Name	projects.models.Interaction
Parent/Subclass	Model
Responsibilities:	 Accept GET and POST requests Contain: Project Swiper Swipee liked Enforces Unique Constraint on (project,swiper,swipee)
Collaborators:	accounts.models.Studentaccounts.models.Professor

projects.models.Project

Class Name	projects.models.Group
Parent/Subclass	Model
Responsibilities:	 Accept GET and POST requests Contain: members candidates rejects group_name project uuid Enforces Unique Constraint on (project, group_name)
Collaborators:	accounts.models.GroupInteraction

Class Name	projects.models.GroupInteraction
Parent/Subclass	Model
Responsibilities:	 Accept GET and POST requests Contain: Liker Likee liked Enforces Unique Constraint on (liker, likee)
Collaborators:	accounts.models.Studentaccounts.models.Group

Class Name	projects.serializers.ProjectSerializer
Parent/Subclass	Serializer
Responsibilities:	 Serialize and deserialize the Projects for JSON Create a project object with a generated join code
Collaborators:	accounts.serializers.ProfessorSerializer

	projects.views.ProjectJoinViewprojects.views.ProjectView
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Class Name	projects.serializers.ProjectMembersSerializer
Parent/Subclass	Serializer
Responsibilities:	 Serialize list of students to display to prof when opening project
Collaborators:	accounts.serializers.UserRetrievalSerializer

Class Name	projects.serializers.ProjectProfileSerializer
Parent/Subclass	Serializer
Responsibilities:	 Deserialize the student profile associated with the project Serialize the profile to json Don't return the primary keys for student and project
Collaborators:	 accounts.models.Student projects.models.ProjectProfile projects.views.ProjectProfileView

Class Name	projects.serializers.ProjectProfileSerializerBeforeDate
Parent/Subclass	Serializer
Responsibilities:	 Deserialize the student profile associated with the project Serialize the profile to json Don't return the primary keys for student and project Only used if current date is before the project end date Does not return the contact details of the project profile
Collaborators:	 accounts.models.Student projects.models.ProjectProfile projects.views.ProjectProfileView

Views

Accounts

Class Name	accounts.views.LoginView
Parent/Subclass	APIView
Responsibilities:	 Accept POST requests Authenticate the user email and password Attach a session cookie if the user is authenticated Return a response body with the user object if authenticated
Collaborators:	accounts.serializers.UserRetrievalSerializer

Class Name	accounts.views.RegisterView
Parent/Subclass	APIView
Responsibilities:	 Accept POST requests Validate the user register data Create a new user if the data is valid Attach a session cookie after create Return the response body with the user object if valid
Collaborators:	accounts.serializers.UserRetrievalSerializer

Class Name	accounts.views.RetrieveUserView
Parent/Subclass	APIView
Responsibilities:	 Accept GET requests If a valid session cookie is present, return the user information in JSON format
Collaborators:	accounts.serializers.UserRetrievalSerializer

Projects

Class Name	projects.views.ProjectView
Parent/Subclass	APIView
Responsibilities:	 Accept GET and POST requests If the user is authenticated GET Return a list of all projects that the user has joined POST Deserialize the request data Only allow professors to create projects Create a new project database entry if the data is valid Return the generated join_code in the response body
Collaborators:	projects.serializers.ProjectSerializer

Class Name	projects.views.ProjectJoinView
Parent/Subclass	APIView
Responsibilities:	 Accept GET requests If the user is authenticated Only allow students to retrieve and join project Join the project corresponding to the join code in the URL If the user is already joined, don't do anything Return a serialized project object JSON in the response body and whether the student has just joined the project as a result of the request Accept Post Request If user is professor of project or student of a project in the group: Remove student form project Reset student interactions Set status of candidate to be matching
Collaborators:	projects.serializers.ProjectSerializer

Class Name	projects.views.ProjectProfileView
Parent/Subclass	APIView
Responsibilities:	 Accept GET and POST requests If the user is authenticated GET Return the project profile of a student Only students can access the project profile POST Only allow students to create new project profiles Deserialize the request data Add student, project to entity Create a new project profile database entry if data is valid Update the project profile if one already exists Return the project profile of the student
Collaborators:	 projects.serializers.ProjectProfileSerializer projects.serializers.ProjectProfileSerializerBeforeDate

Class Name	projects.views.ProjectInfoView
Parent/Subclass	APIView
Responsibilities:	 Accept GET and POST requests If the user is authenticated GET Return the project object corresponding to the project_id Only allow students who have already joined the project to access this endpoint Return whether or not a bio has been created
Collaborators:	projects.serializers.ProjectSerializer

Class Name	projects.views.ProjectGetCandidate	
Parent/Subclass	APIView	
Responsibilities:	Accept GET requests	

	If the user is authenticatedGET
	 If student a group member: Show and item from candidate list Evaluate or student candidates joining group or not Return a candidate Return a student object and project profile project . Only allow students in if the project exists. Return null, if no more candidates are available.
Collaborators:	projects.serializers.CandidateSerializer

Class Name	projects.views.InteractionView
Parent/Subclass	APIView
Responsibilities:	 Accept POST If the user is authenticated POST If the project exists, liker is a single, likee is single Create a like or dislike interaction between them Return matched if the other user had liked them before Create a new group with 2 matched users Clean previous interactions of members Remove both users from all groups' candidates lists Generate a random name Return not matched, if the other student had not liked him before. If the project exists, liker is single, likee is group Create GroupInteraction with liker and likee Return matched if liker has enough existing likes from group members Add liker to group

Collaborators: • None	 Clean previous interactions of members Remove liker from other groups' candidate lists Return not matched if liker has too many existing dislikes from group members Remove liker from candidate list of group Return not matched if group members do not have enough votes either way of likes/dislikes If the project exists, liker is part of group, likee is single Create interaction between users Return matched if liker has enough likes from group members Add liker to group Clean previous interactions of members Remove liker from other groups' candidate lists Return not matched if liker has too many dislikes from group members Remove liker from candidate list of group Return not matched if not enough votes either way likes/dislikes
Collaborators. • None	

Class Name	projects.views.GroupView
Parent/Subclass	APIView
Responsibilities:	 Accept GET If the user is authenticated GET Return group metadata and return the list of project profiles that are a member of your current group
Collaborators:	• None