

Scope Of Problem



The COVID19 pandemic has forced students to stay at home.....

This has created a number of challenges

- ❖ Students are unable to seamlessly clarify their doubts and seek help from their peers or teachers
- ❖ Students have difficulties finding and forming a team for their personal projects or group-based school assignments

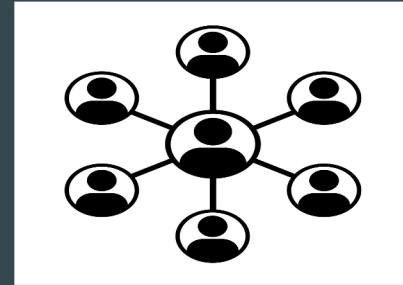
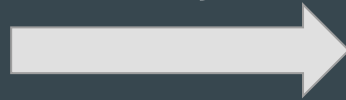
However, with innovative product design and engineering.....

We have created an app called “Collab” which will be the LinkedIn for students enrolled in educational institutions.

Collab



allows you to



Find and network with your community digitally to collaborate on a project or seek assistance on school work

Proposed Solution / Use Case



Scenario 01

Alan wants to create a breakdancing app as he is passionate about breakdancing

However.... He has difficulties finding potential collaborators for this project such as app developers who also love breakdancing

Now with Collab...

Create a collaboration
project request on Collab

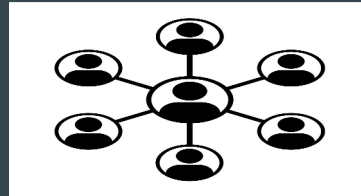


Selective Filtering



Algorithm in Collab

Displays the request
to Collab users



who have breakdancing &
app development profiles

Interested parties can
accept and collaborate



Scenario 02

Jane is struggling on her CS tutorial questions and wants to seek help from someone

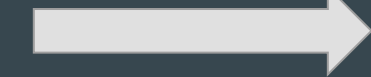
However.... She has difficulties finding someone to explain the solution and concept to her in an understandable manner.

Now with Collab...

Create a collaboration
project request on Collab

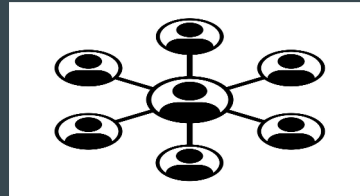


Selective Filtering



Algorithm in Collab

Displays the request
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Technical Details





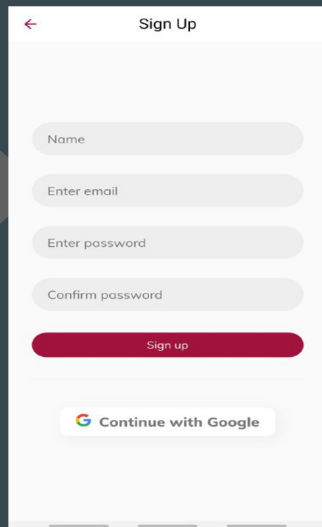
Technical Details

Backend: realtime and
firestore database

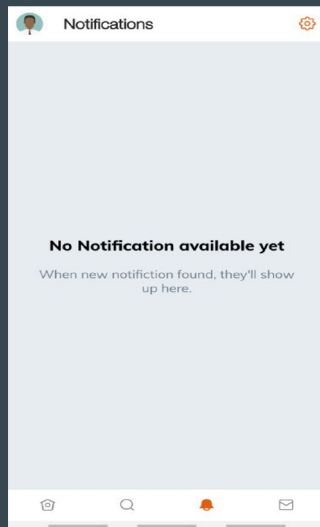
Frontend App: flutter,
google fonts 1.1.0,

App Screenshots

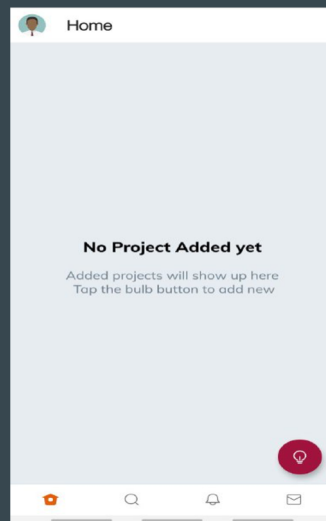
User Login Page



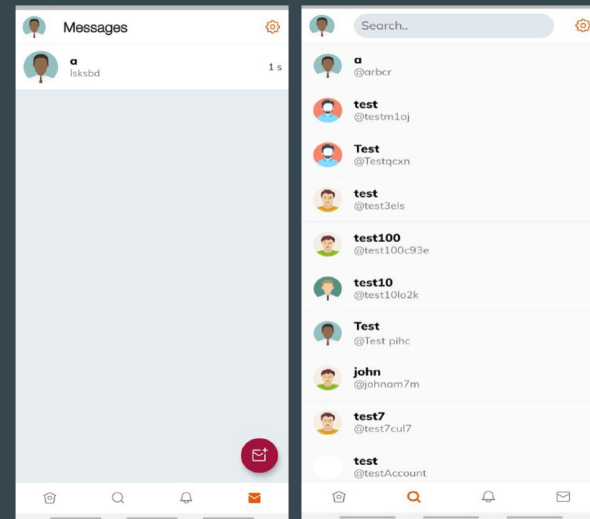
Collaborator Notification Request



Project Listings



Messenger Feature



Usage Flow





Step 1

Account Creation

User creates a Collab profile account stating their interests, skills, major, education background and location.

Those information are stored in searchable 'Tags' to facilitate finding collaborators and getting discovered.



Step 2

Creating a new collaboration project

Project owner creates a collaboration project request, stating the type of project, project description and details for other users to view

Project owner would create Roles for the project and include description and questions for potential collaborator for each Role and tagging each Role with relevant Tags.



Step 3a

Finding people to invite

Project owners are able to search for individuals with the relevant skill and interest using tags specified in the Roles and send an invitation for them to fill the selected Roles.



Step 3b

Joining an existing project

Collaborators can join a project by accepting an invitation or sending an application for a Role.

Collaborators can also self-source for existing project using general tags like interest, school, distance and background or specific tags like NUS, Year2 CS



Step 4

Establishing a group chat for the project team

Collaborators will be added to a project group chat for ease of communication upon mutual acceptance of collaboration request



**Eventually... the goal for Collab
is to be an Open Platform for Collaboration for everyone**

The platform is not just limited to students. It can be extended to include musicians, writers, dancers or even artist and can be used to connect talents needed for any project.