KnowledgeConnect: Next-Gen Virtual Study Groups Platform

Project ID : R24-077

Status Document – 2

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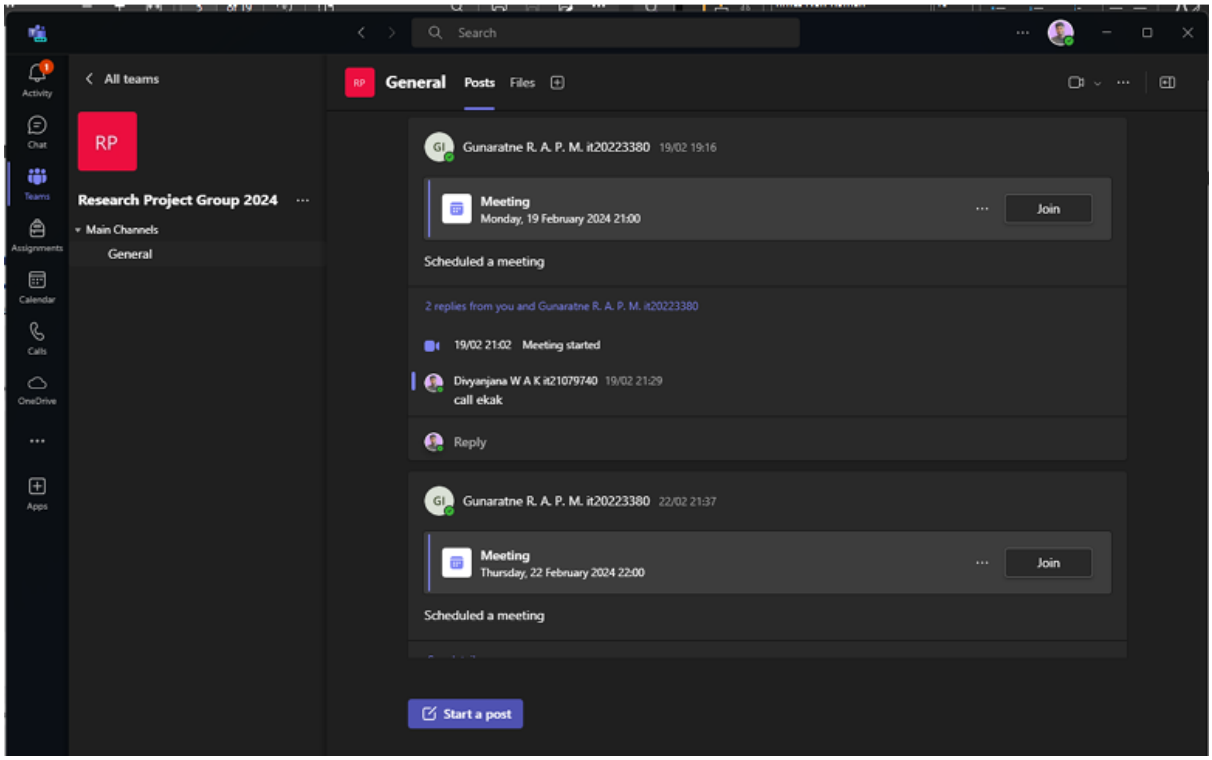
Table of Content.

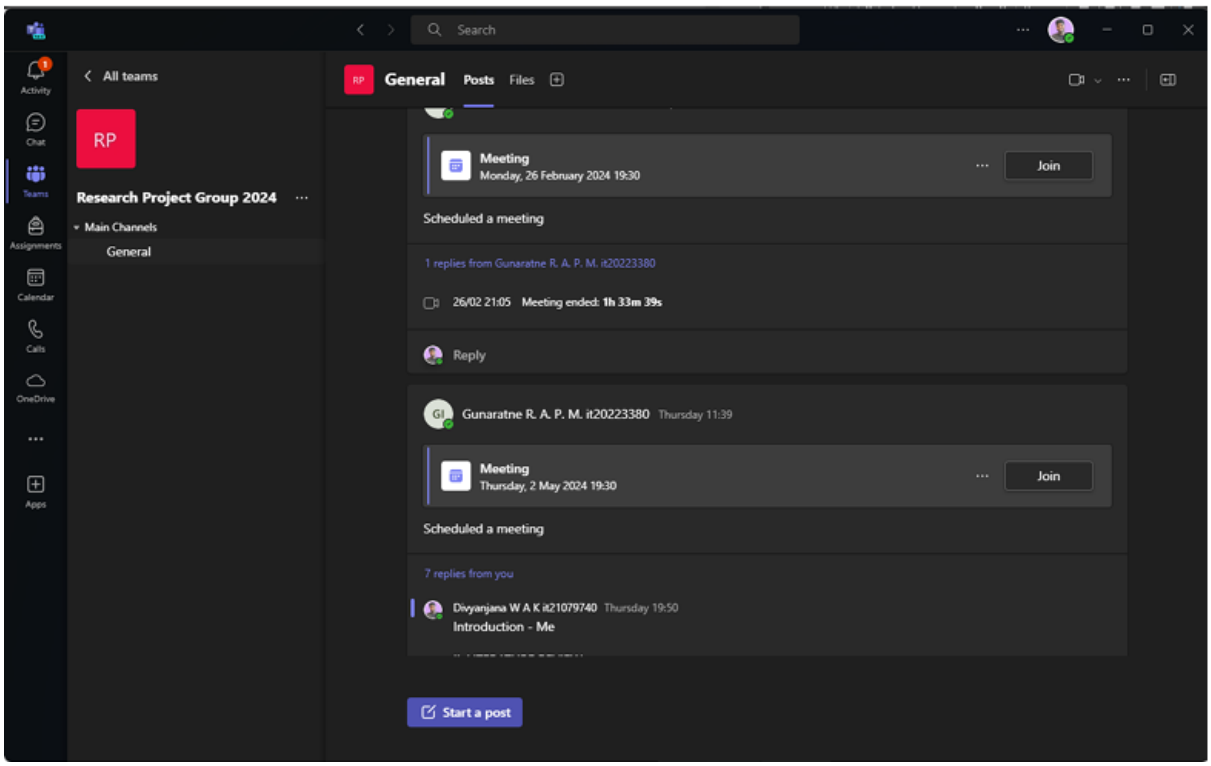
Group Details

Student Id	Student Name
IT21079740	Divyanjana W.A.K

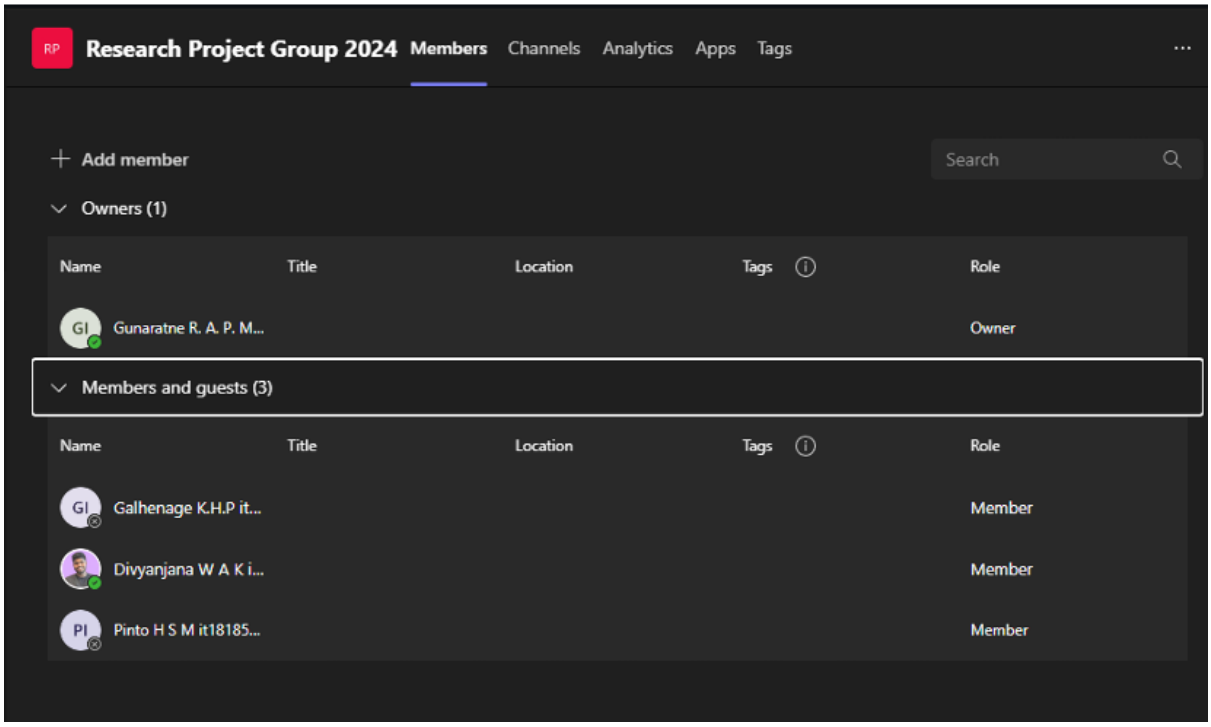
1. Chats – Microsoft Teams

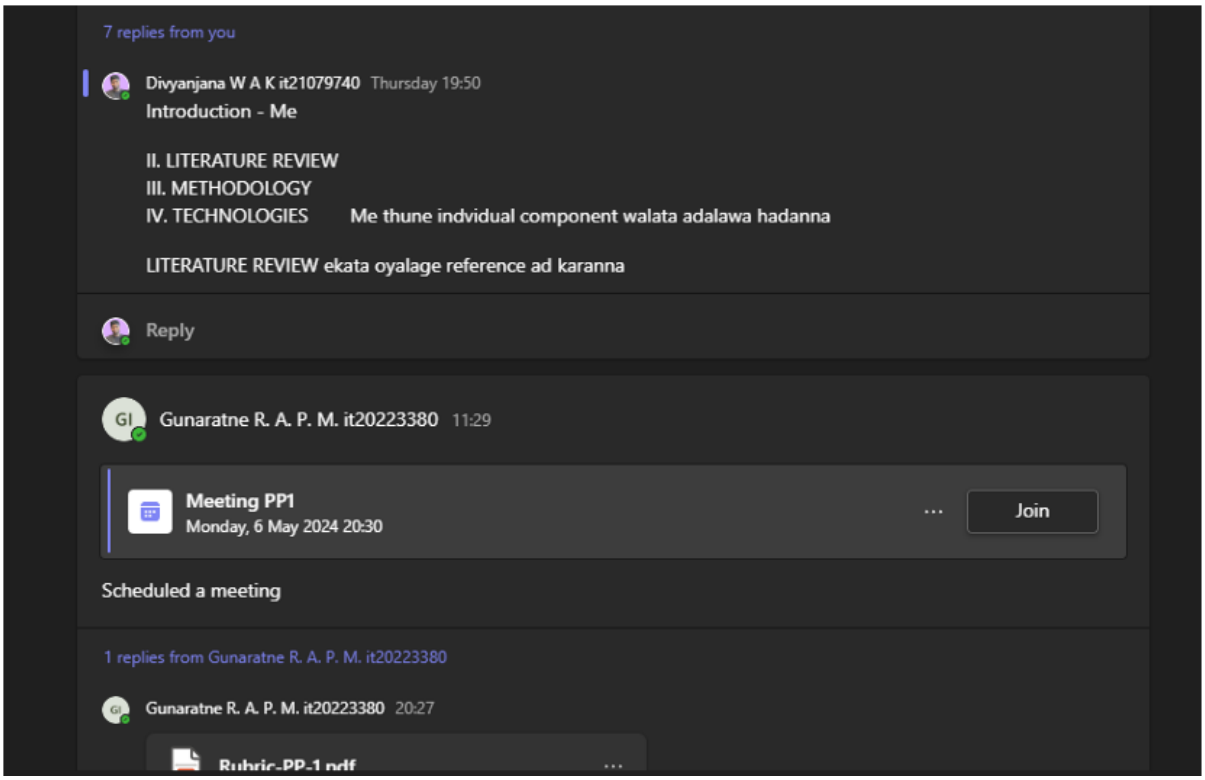
The official MS Team group established for interactions with team members and research-related conversations is listed below





Official Ms Teams Group

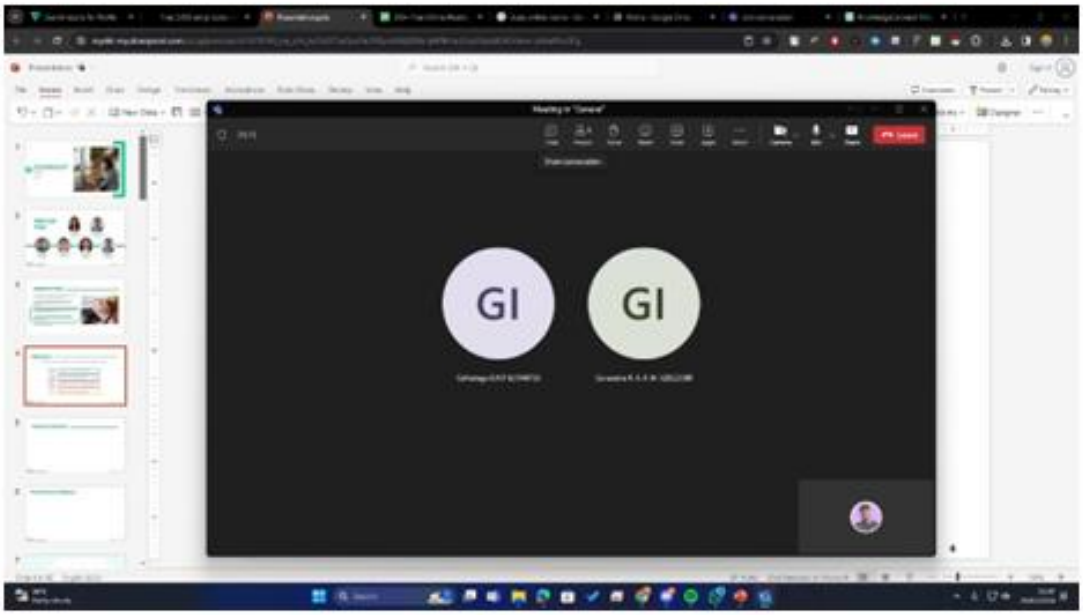




2. Calls – Microsoft Teams

These screenshots showcase the Microsoft Teams group calls we conducted during our research project collaboration.

Discussing about the project

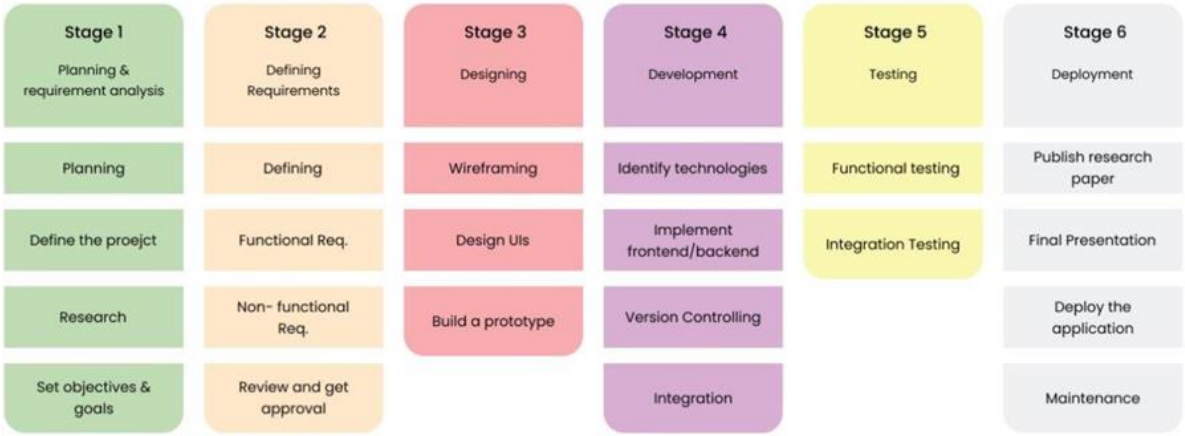


Creating the proposal presentation

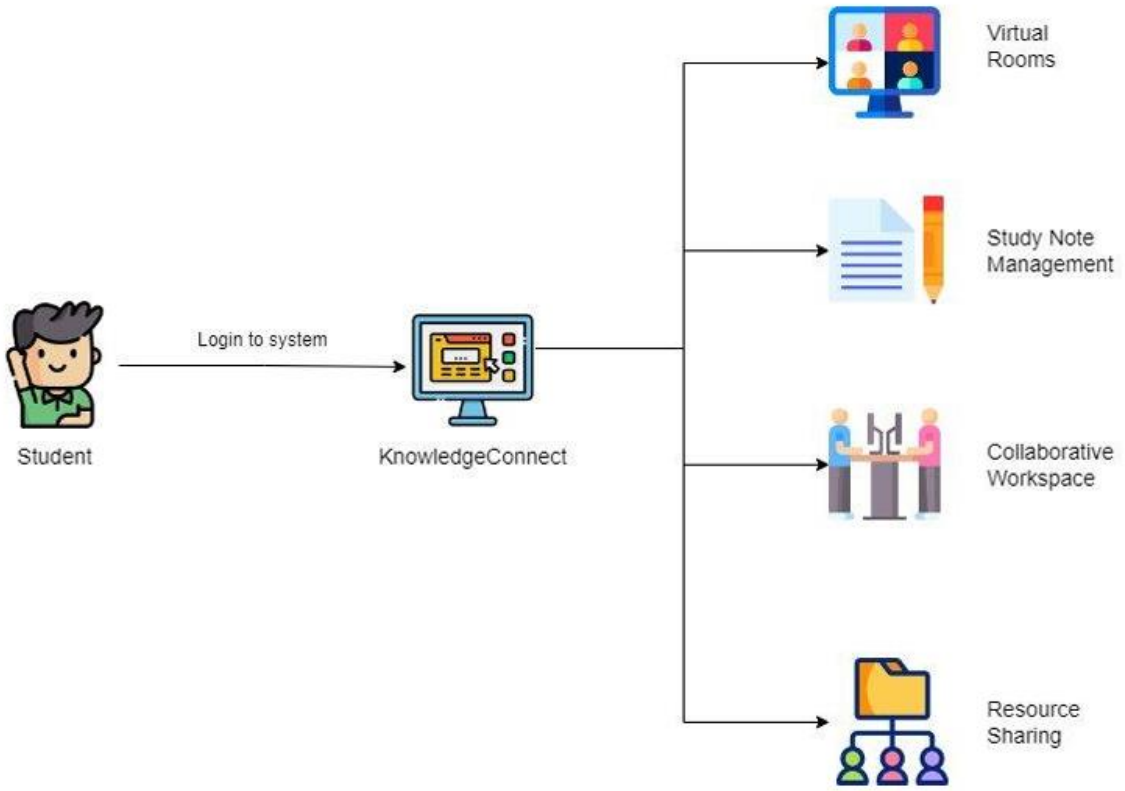
Discussing the PP1

- After this team members left and the group work didn't happened. Rest of the parts done individually.

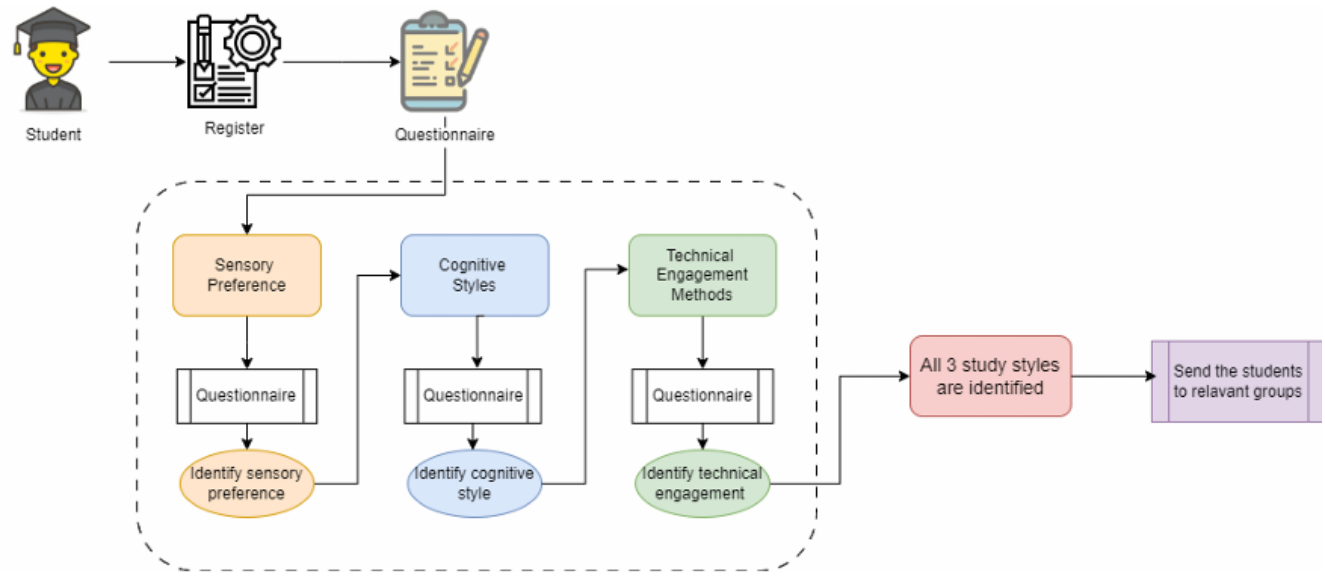
3. Diagram



Work Breakdown Structure



Overall System Diagram



My component diagram

4. Documents

Progress Presentation II

• BACKGROUND CONT.

By grouping students with similar learning preferences

enhance collaboration, engagement, and academic success.

RESEARCH GAP

- Existing Approaches Are Limited to Single Dimensions
- Lack of Integration of Cognitive and Technical Preferences
- One-Size-Fits-All in IT Education
- Limited Collaboration Tools in Personalized Learning

SYSTEM COMPARISON

Features	1	2	3	4	Our System
Learning Style Personalization	✗	✗	✗	✗	✓

Progress Presentation II

Knowledge Connect Next-Gen Virtual Study Group Platform

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Abstract **- This study explores the creation of Knowledge Connect, an innovation environment tailored for next-generation virtual research teams, with a focus on resource platform optimization. Collaborative learning, known to increase student engagement and academic success, is at the heart of efforts to close the gap to improve systems for allocating resources to diverse student populations. Key goals include content curation, user experience improvement, community engagement, accessibility, data protection and metrics. The process involves developing a platform that uses artificial intelligence to efficiently classify resources and continuously improve the system. Using cross-disciplinary tools such as generative AI, Figma, Node.js, MongoDB and Python. This research aims to address current gaps in collaborative learning environments and promote effective knowledge transfer while protecting student privacy and security when sharing learning materials. Emphasis is placed on data protection, community engagement, accessibility, user experience, content management, regular system updates and defining metrics for continuous improvement that fosters a productive atmosphere for collaborative learning.**

In addition, this study proposes the development of a simplified research note management system that allows easy access and categorization of records using tags. The system enables the synchronization of notes between different devices, manages the history of recovery function notes through a version control system, and provides artificial intelligence support to review research notes, identifying areas for further research, missing points and suggestions for improvement. In addition, Virtual Study Groups are introduced, grouping students based on learning styles within customized virtual group components to facilitate group meetings, forum discussions, and collaborative learning. The study also highlights the need for effective grammar correction methods in collaborative documentation software, which aim to improve document quality by effectively correcting grammatical errors and classifying their severity to

are happy to introduce Knowledge Connect, which is cutting-edge virtual study group platform that has bee created for the purpose of enhancing collaborative learnir experiences. Knowledge Connect has come up with a uniqu way of increasing the success of students involved in it, b considering two main elements during a study sty assessment questionnaire. And you know, this form creates better studying atmosphere when it brings together studen with similar learning abilities for a better experience whi learning. In addition, access to previous note revisions provided by a version control system which also ensures th note-taking is not compromised in terms of strength. Als our note analysis feature which is powered by artifici intelligence is capable of providing invaluable insights students on their study materials by pointing out areas whe they can improve and which information is missin Moreover, it is the function of our integrated no management system to make it easier for learners creat categorize, and align notes across different devices Thirdl Knowledge Connect appreciates how significant it is to hav open learning resources for the success of students. We wa to bridge the gap in sharing resources through making goo choices about what to include in the databases, how peop interact with them or contribute something themselves (calle 'content curation'), and getting those who should use the materials together (termed 'community engagement'). W believe that by utilizing artificial intelligence to help u classify resources more effectively and also focusing c making sure that anyone can access them first before ar other considerations are given, we can realize our dream for platform which keeps different types high standard learnir

Draft research paper

KNOWLEDGE CONNECT : IDENTIFYING STUDENT STUDY STYLES AND IMPLEMENTING A GROUPING SYSTEM TO FACILITATE COLLABORATIVE LEARNING AMONG FIRST-YEAR IT STUDENTS.

R24-077

Project Proposal Report
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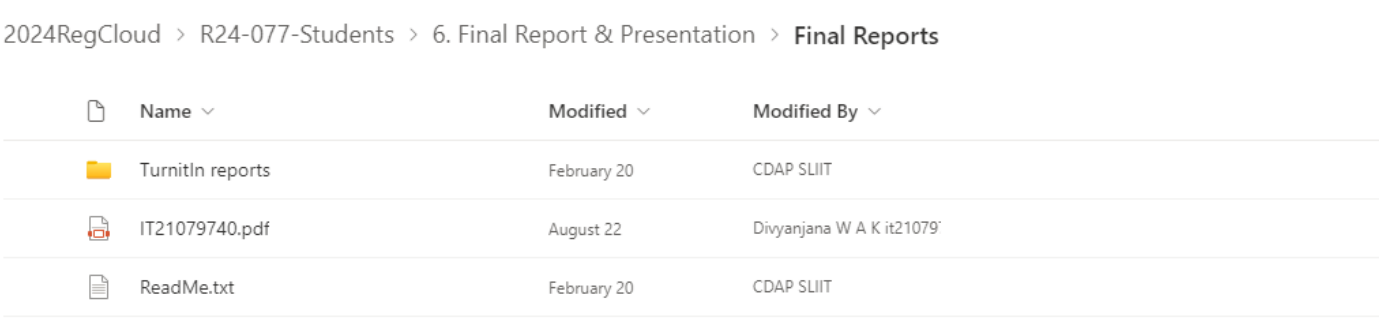
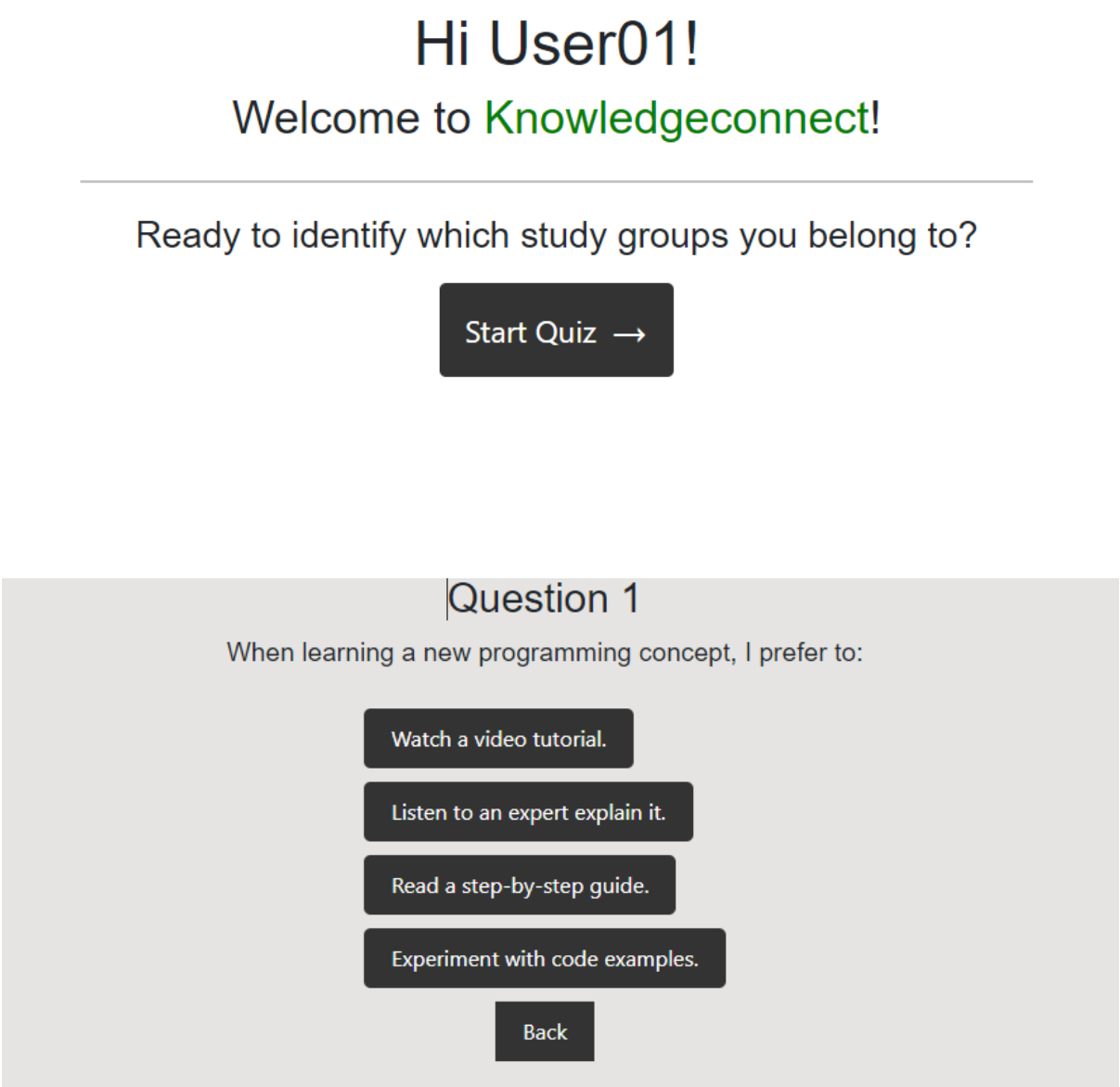
February 2024

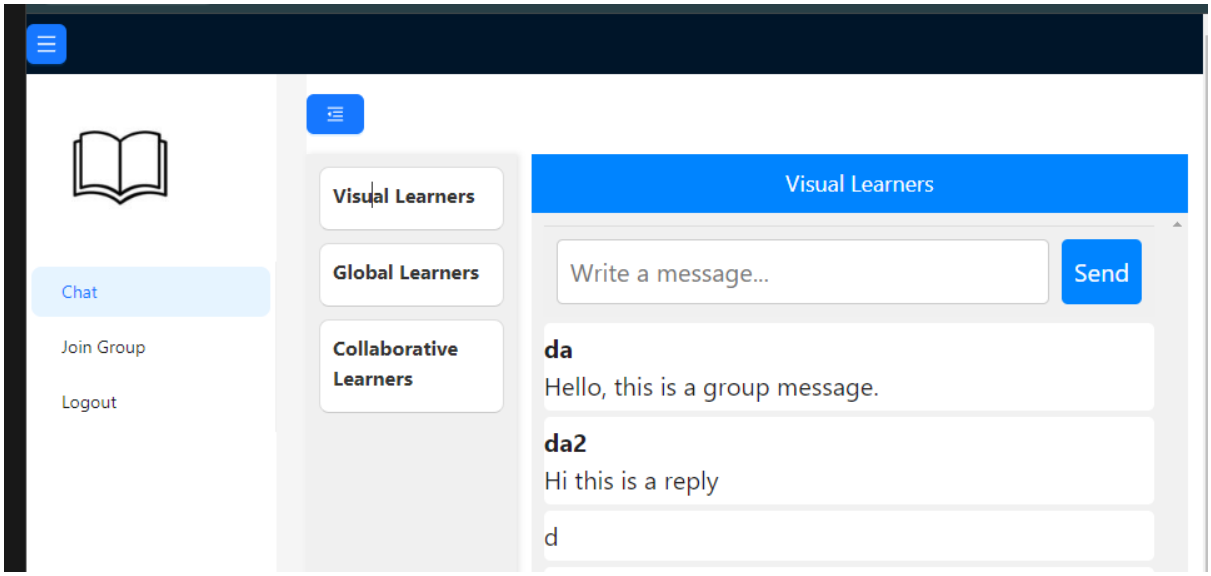
Uploaded final reports



Uploaded final reports

5. Progress


Hi User01!
Welcome to Knowledgeconnect!
Ready to identify which study groups you belong to?
Start Quiz →
Question 1
When learning a new programming concept, I prefer to:
Watch a video tutorial.
Listen to an expert explain it.
Read a step-by-step guide.
Experiment with code examples.
Back



Developed application so far(to identify learning styles and student grouping)

- Most of the points are not able to include because group members left and team work didn't happened. So components had to be done individually.