Train Robot to Climb Stairs: Move Robot's Legs On The Staircase

21_22-J 34

Status Document 1

Wijethilaka R.G.K.H

IT18220834

Supervisor – Mr. Samantha Rajapakshe

Co-Supervisor – Mr.S.M.B. Harshanath

B.Sc. (Hons) Degree in Information Technology Specializing in Software Engineering

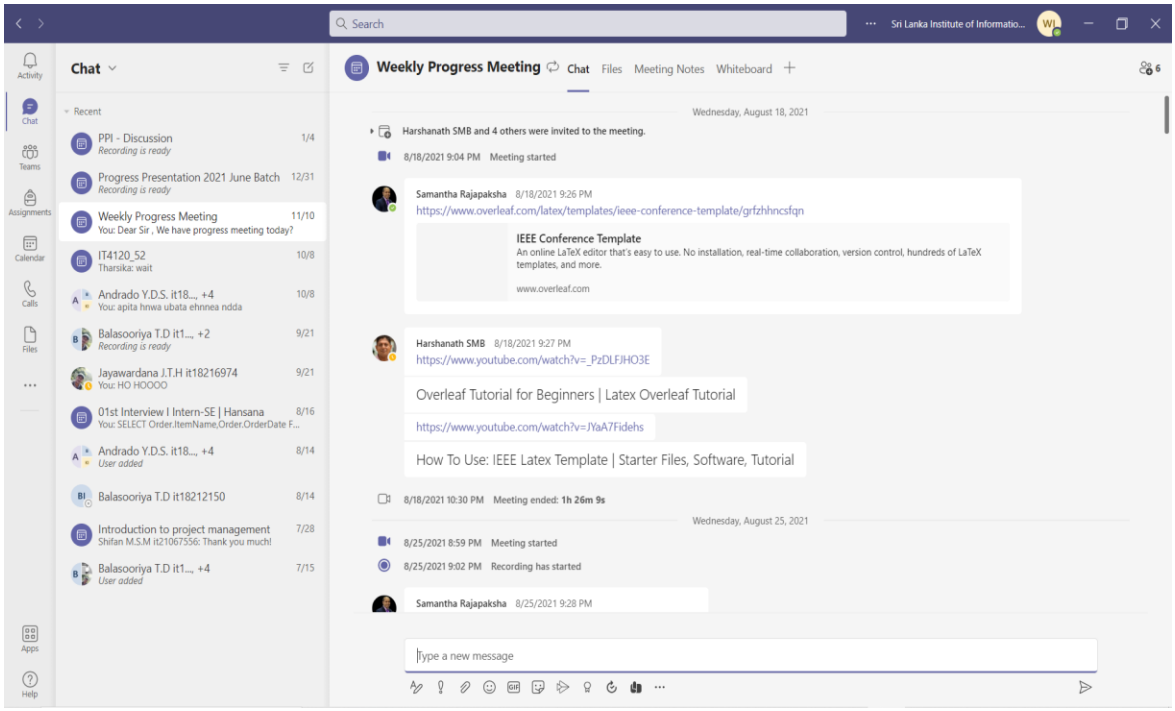
Department of Software Engineering

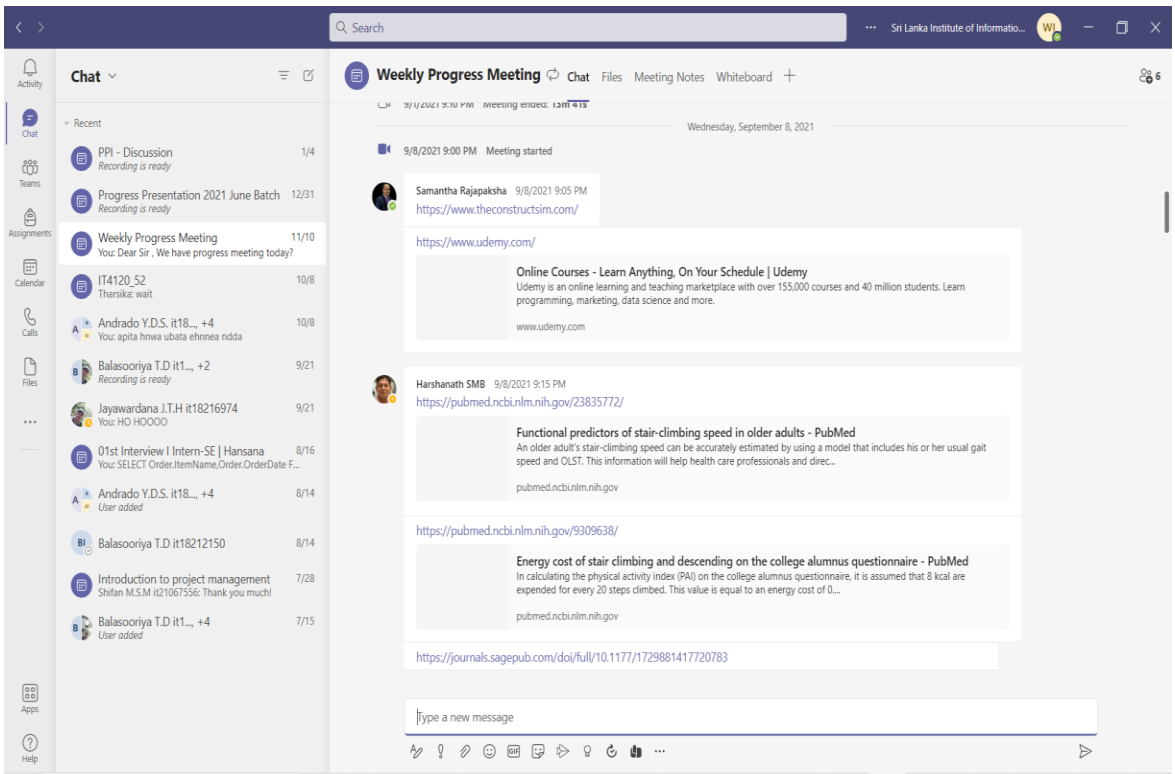
Sri Lanka Institute of Information Technology

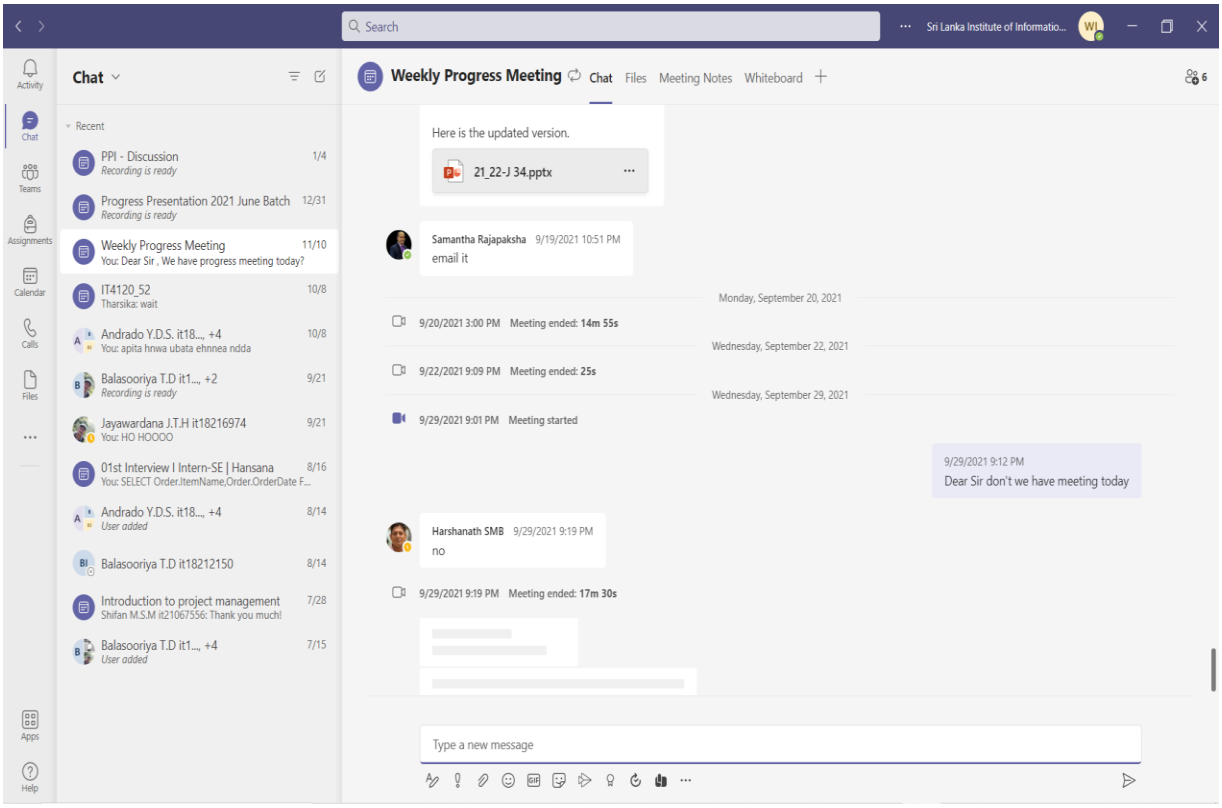
Sri Lanka

January 2022

1) Screenshots of chats and calls with supervisors
    1. MS Teams



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Weekly Progress Meeting
You: Dear Sir , We have progress meeting today?
11/10
IT4120_52
Tharsika: wait
10/8
Andrado Y.D.S. it18..., +4
You: apita hnwa ubata ehnnea ndda
10/8
Balasooriya T.D it1..., +2
Recording is ready
9/21
Jayawardana J.T.H it18216974
You: HO HOOOO
9/21
01st Interview I Intern-SE | Hansana
You: SELECT Order.ItemName,Order.OrderDate F...
8/16
Andrado Y.D.S. it18..., +4
User added
8/14
Balasooriya T.D it18212150
8/14
Introduction to project management
Shifan M.S.M it21067556: Thank you much!
7/28
Balasooriya T.D it1..., +4
User added
7/15
Weekly Progress Meeting
Chat
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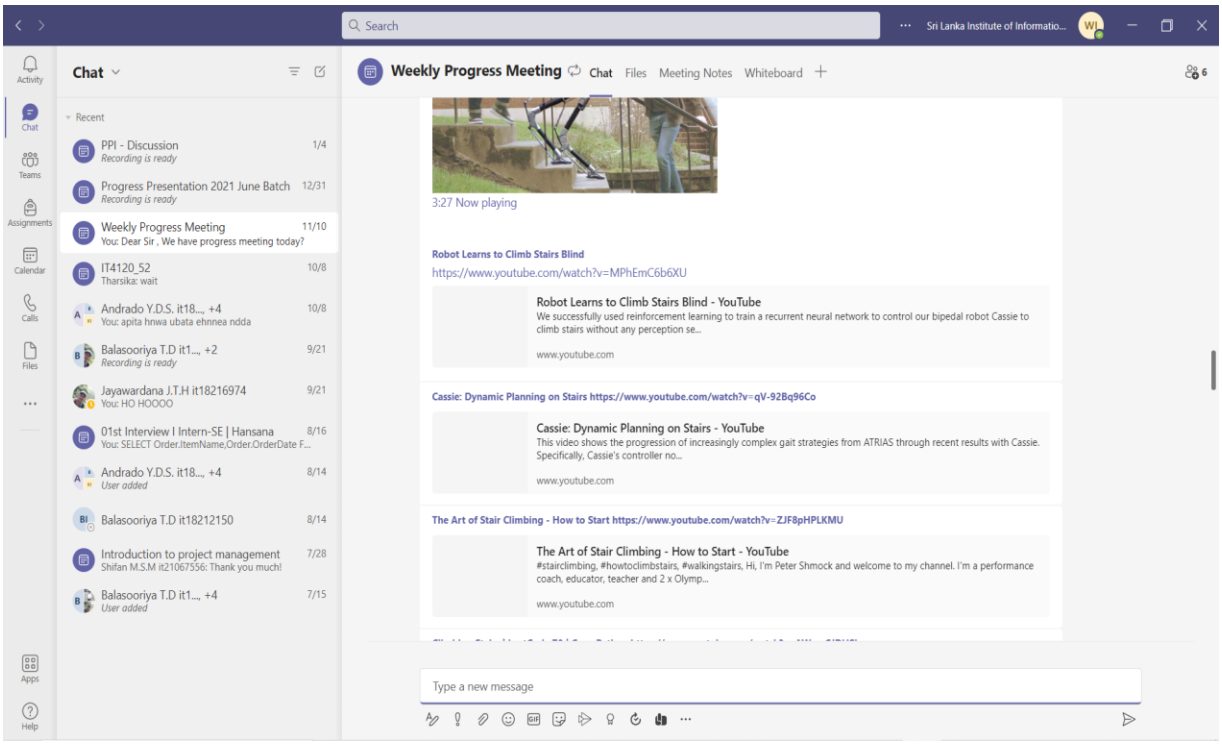
6
Here is the updated version.
21_22-J 34.pptx
Samantha Rajapaksha 9/19/2021 10:51 PM
email it
Monday, September 20, 2021
9/20/2021 3:00 PM Meeting ended: 14m 55s
Wednesday, September 22, 2021
9/22/2021 9:09 PM Meeting ended: 25s
Wednesday, September 29, 2021
9/29/2021 9:01 PM Meeting started
9/29/2021 9:12 PM
Dear Sir don't we have meeting today
Harshanath SMB 9/29/2021 9:19 PM
no
9/29/2021 9:19 PM Meeting ended: 17m 30s
Type a new message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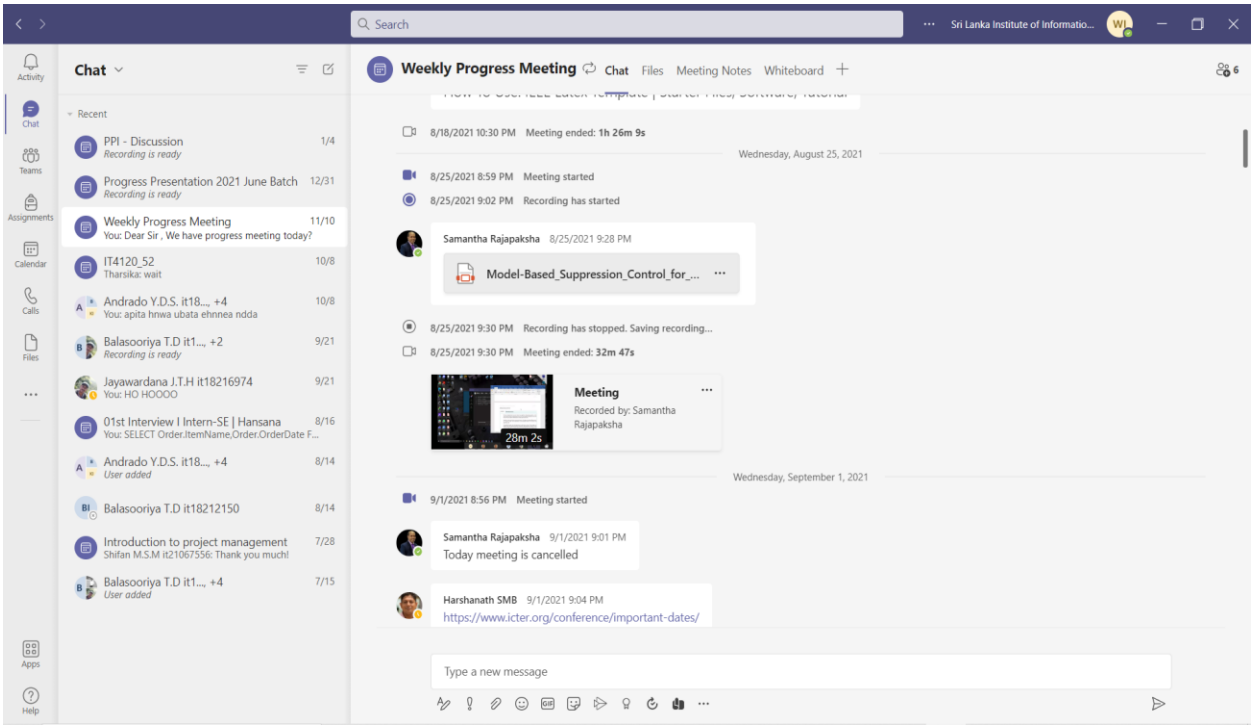
3:27 Now playing
Robot Learns to Climb Stairs Blind
https://www.youtube.com/watch?v=MPhEmC6b6XU
Robot Learns to Climb Stairs Blind - YouTube
We successfully used reinforcement learning to train a recurrent neural network to control our bipedal robot Cassie to climb stairs without any perception se...
www.youtube.com
Cassie: Dynamic Planning on Stairs https://www.youtube.com/watch?v=qV-92Bq96Co
Cassie: Dynamic Planning on Stairs - YouTube
This video shows the progression of increasingly complex gait strategies from ATRIAS through recent results with Cassie. Specifically, Cassie's controller no...
www.youtube.com
The Art of Stair Climbing - How to Start https://www.youtube.com/watch?v=ZJF8pHPLKMU
The Art of Stair Climbing - How to Start - YouTube
#stairclimbing, #howtoclimbstairs, #walkingstairs, Hi, I'm Peter Shmock and welcome to my channel. I'm a performance coach, educator, teacher and 2 x Olymp...
www.youtube.com
Type a new message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8/18/2021 10:30 PM Meeting ended: 1h 26m 9s
Wednesday, August 25, 2021
8/25/2021 8:59 PM Meeting started
8/25/2021 9:02 PM Recording has started
Samantha Rajapaksha 8/25/2021 9:28 PM
Model-Based_Suppression_Control_for_...
8/25/2021 9:30 PM Recording has stopped. Saving recording...
8/25/2021 9:30 PM Meeting ended: 32m 47s
28m 2s
Meeting
Recorded by: Samantha Rajapaksha
Wednesday, September 1, 2021
9/1/2021 8:56 PM Meeting started
Samantha Rajapaksha 9/1/2021 9:01 PM
Today meeting is cancelled
Harshanath SMB 9/1/2021 9:04 PM
https://www.icter.org/conference/important-dates/
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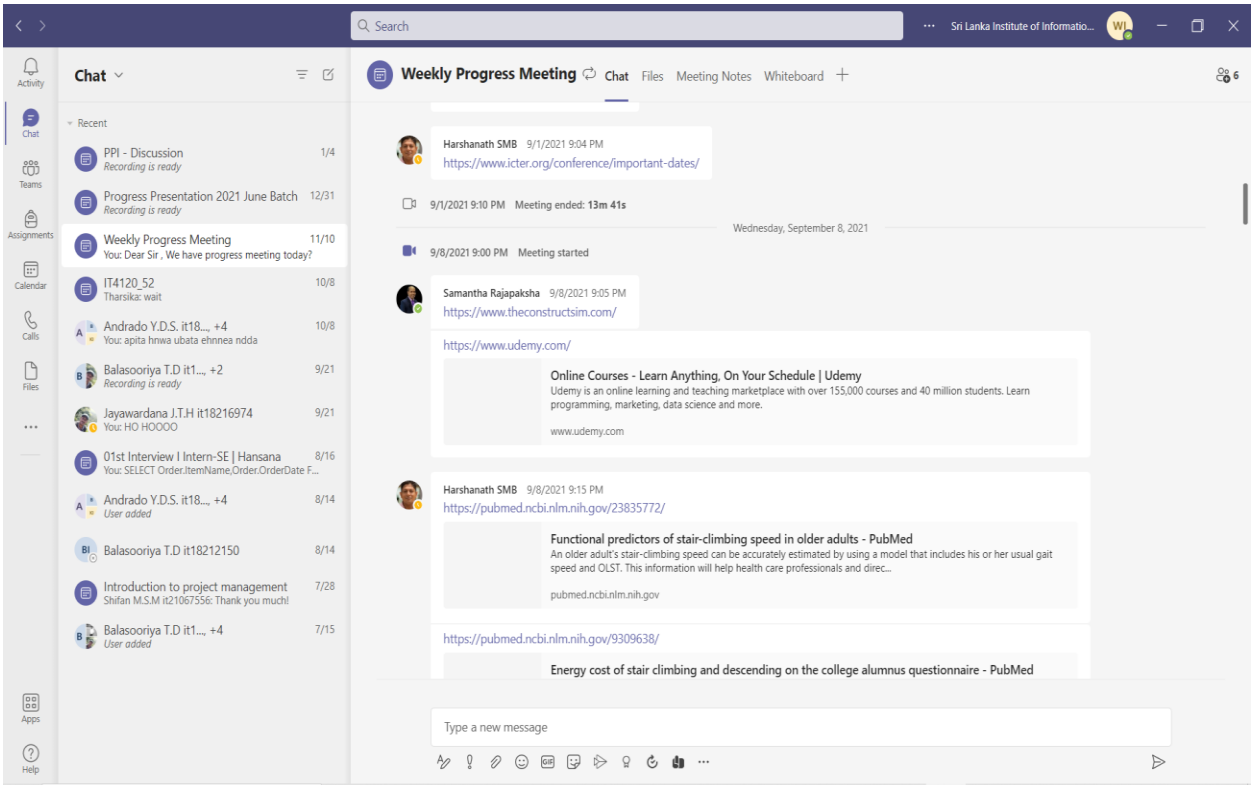
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Harshanath SMB 9/1/2021 9:04 PM
https://www.icter.org/conference/important-dates/
9/1/2021 9:10 PM Meeting ended: 13m 41s
Wednesday, September 8, 2021
9/8/2021 9:00 PM Meeting started
Samantha Rajapaksha 9/8/2021 9:05 PM
https://www.theconstructsim.com/
https://www.udemy.com/
Online Courses - Learn Anything, On Your Schedule | Udemy
Udemy is an online learning and teaching marketplace with over 155,000 courses and 40 million students. Learn programming, marketing, data science and more.
www.udemy.com
Harshanath SMB 9/8/2021 9:15 PM
https://pubmed.ncbi.nlm.nih.gov/23835772/
Functional predictors of stair-climbing speed in older adults - PubMed
An older adult's stair-climbing speed can be accurately estimated by using a model that includes his or her usual gait speed and OLST. This information will help health care professionals and direc...
pubmed.ncbi.nlm.nih.gov
https://pubmed.ncbi.nlm.nih.gov/9309638/
Energy cost of stair climbing and descending on the college alumnus questionnaire - PubMed
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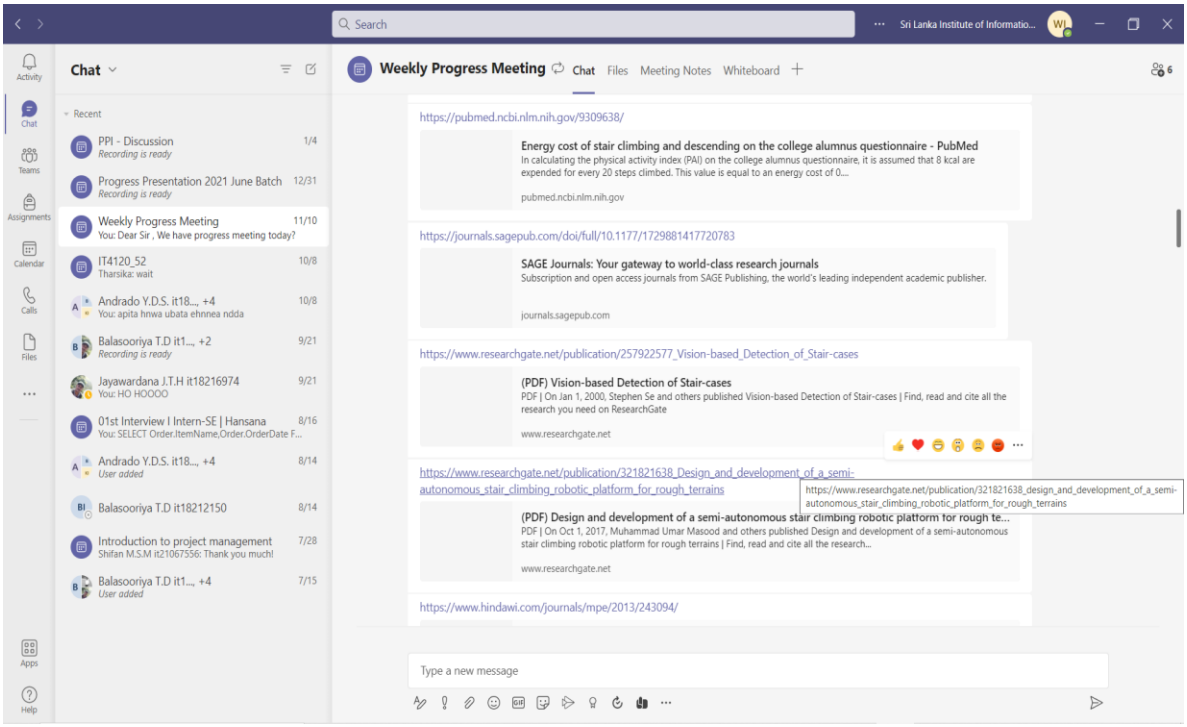
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https://pubmed.ncbi.nlm.nih.gov/9309638/
Energy cost of stair climbing and descending on the college alumnus questionnaire - PubMed
In calculating the physical activity index (PAI) on the college alumnus questionnaire, it is assumed that 8 kcal are expended for every 20 steps climbed. This value is equal to an energy cost of 0....
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Subscription and open access journals from SAGE Publishing, the world's leading independent academic publisher.
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https://www.researchgate.net/publication/257922577_Vision-based_Detection_of_Stair-cases
(PDF) Vision-based Detection of Stair-cases
PDF | On Jan 1, 2000, Stephen Se and others published Vision-based Detection of Stair-cases | Find, read and cite all the research you need on ResearchGate
www.researchgate.net
https://www.researchgate.net/publication/321821638_Design_and_development_of_a_semi-autonomous_stair_climbing_robotic_platform_for_rough_terrains
https://www.researchgate.net/publication/321821638_design_and_development_of_a_semi-autonomous_stair_climbing_robotic_platform_for_rough_terrains
(PDF) Design and development of a semi-autonomous stair climbing robotic platform for rough te...
PDF | On Oct 1, 2017, Muhammad Umar Masood and others published Design and development of a semi-autonomous stair climbing robotic platform for rough terrains | Find, read and cite all the research...
www.researchgate.net
https://www.hindawi.com/journals/mpe/2013/243094/
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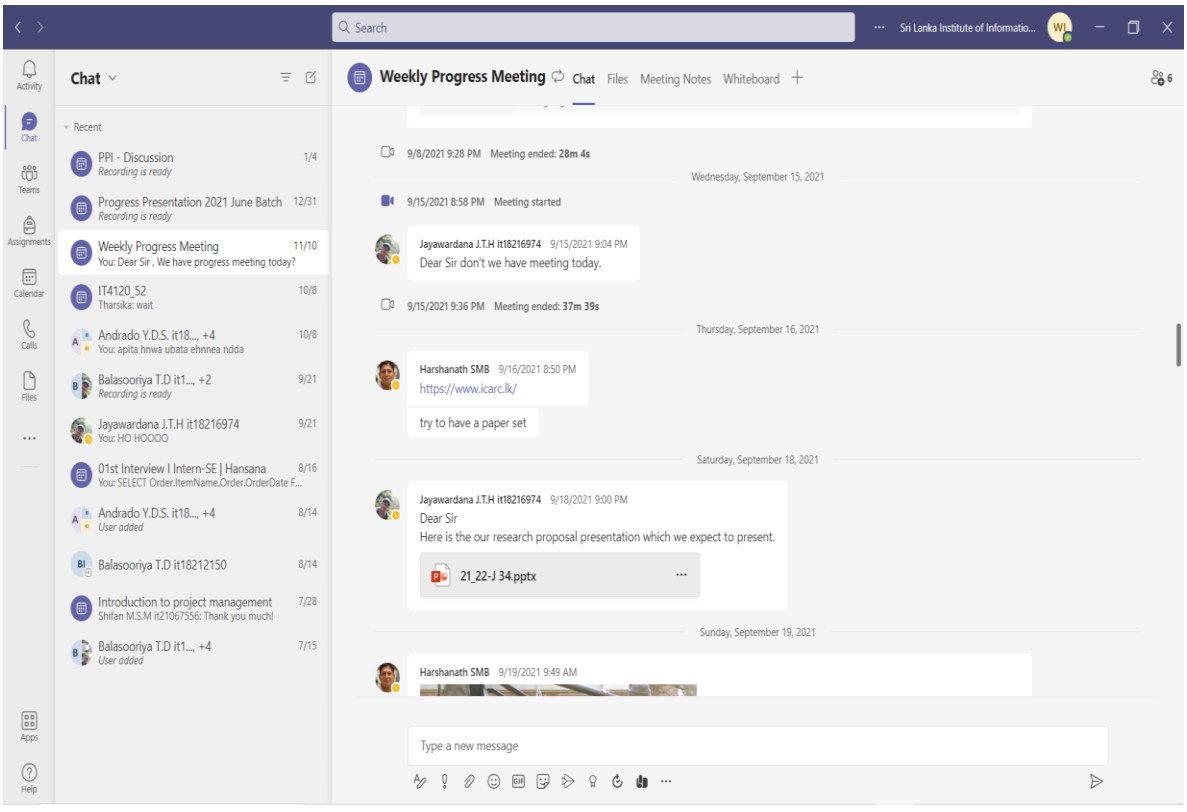
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Thursday, September 16, 2021
Harshanath SMB 9/16/2021 8:50 PM
https://www.icarc.lk/
try to have a paper set
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Dear Sir
Here is the our research proposal presentation which we expect to present.
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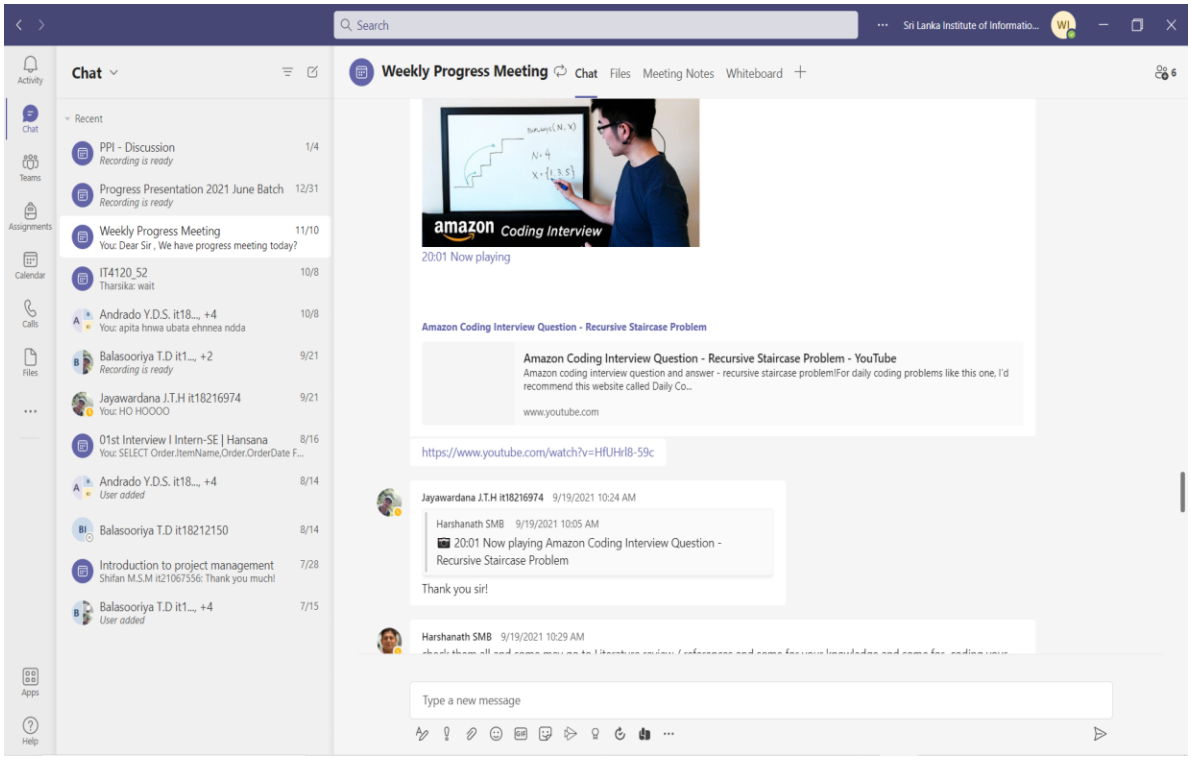
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amazon Coding Interview
20:01 Now playing
Amazon Coding Interview Question - Recursive Staircase Problem
Amazon Coding Interview Question - Recursive Staircase Problem - YouTube
Amazon coding interview question and answer - recursive staircase problem!For daily coding problems like this one, I'd recommend this website called Daily Co...
www.youtube.com
https://www.youtube.com/watch?v=HfUHrI8-59c
Jayawardana J.T.H it18216974 9/19/2021 10:24 AM
Harshanath SMB 9/19/2021 10:05 AM
20:01 Now playing Amazon Coding Interview Question - Recursive Staircase Problem
Thank you sir!
Harshanath SMB 9/19/2021 10:29 AM
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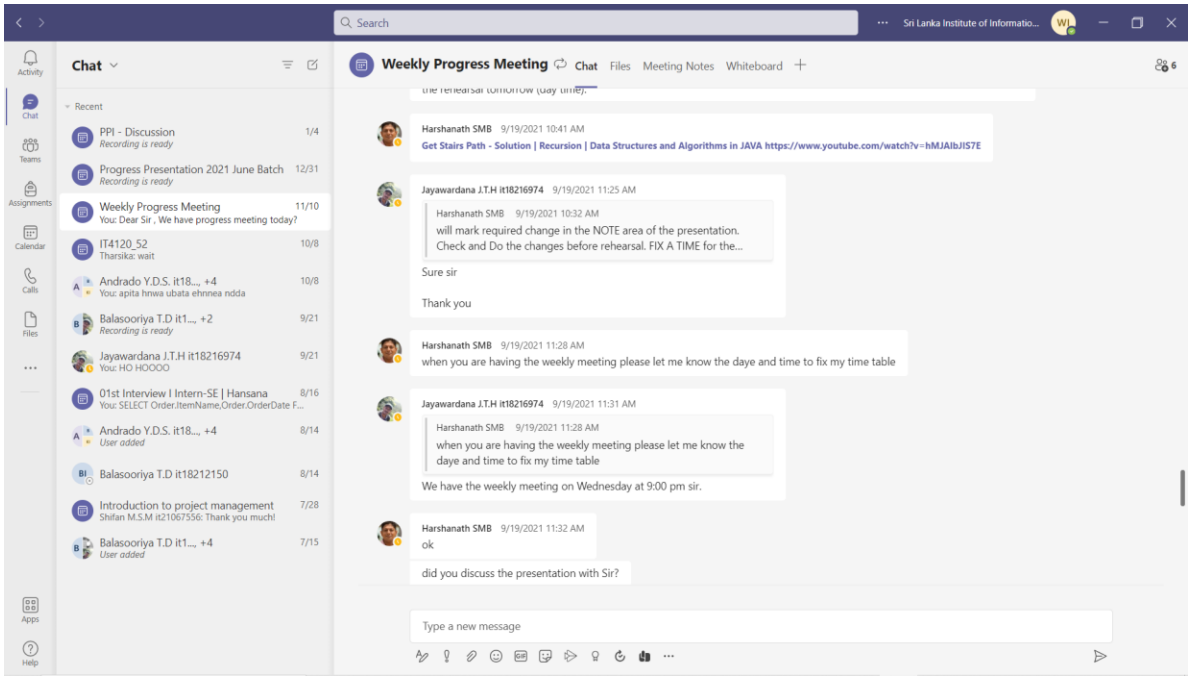
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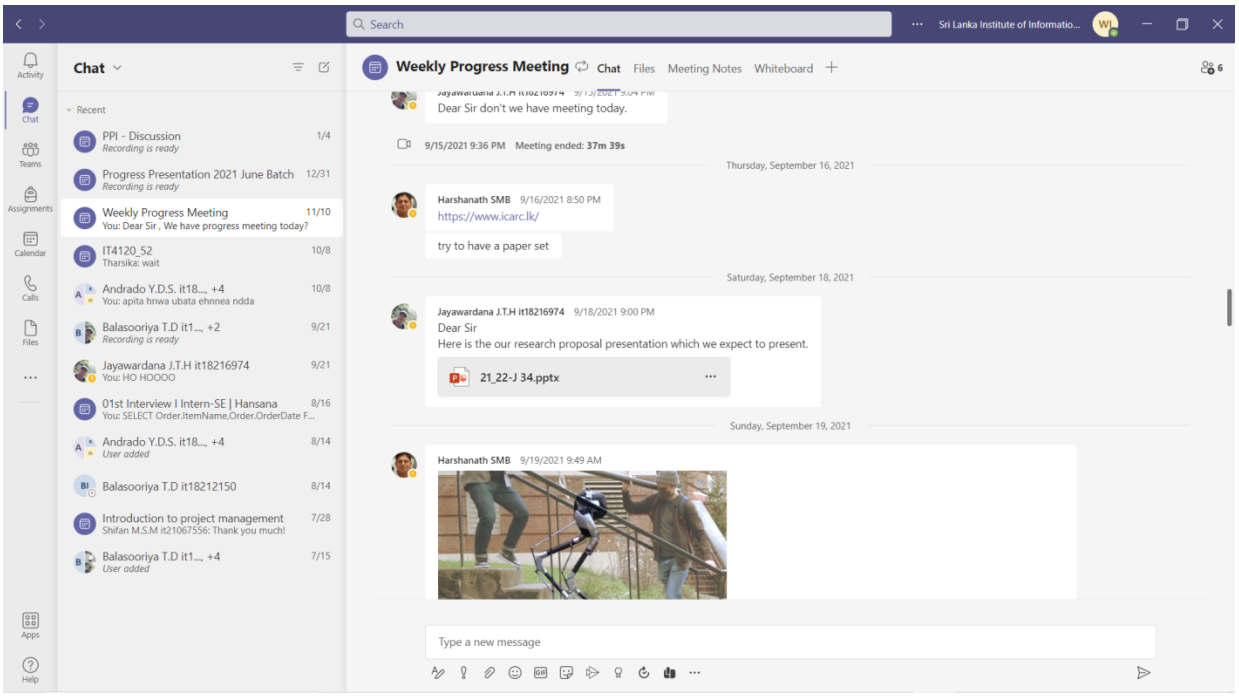
Harshanath SMB 9/19/2021 10:41 AM
Get Stairs Path - Solution | Recursion | Data Structures and Algorithms in JAVA https://www.youtube.com/watch?v=hMJAlbJIS7E
Jayawardana J.T.H it18216974 9/19/2021 11:25 AM
Harshanath SMB 9/19/2021 10:32 AM
will mark required change in the NOTE area of the presentation. Check and Do the changes before rehearsal. FIX A TIME for the...
Sure sir
Thank you
Harshanath SMB 9/19/2021 11:28 AM
when you are having the weekly meeting please let me know the daye and time to fix my time table
Jayawardana J.T.H it18216974 9/19/2021 11:31 AM
Harshanath SMB 9/19/2021 11:28 AM
when you are having the weekly meeting please let me know the daye and time to fix my time table
We have the weekly meeting on Wednesday at 9:00 pm sir.
Harshanath SMB 9/19/2021 11:32 AM
ok
did you discuss the presentation with Sir?
Type a new message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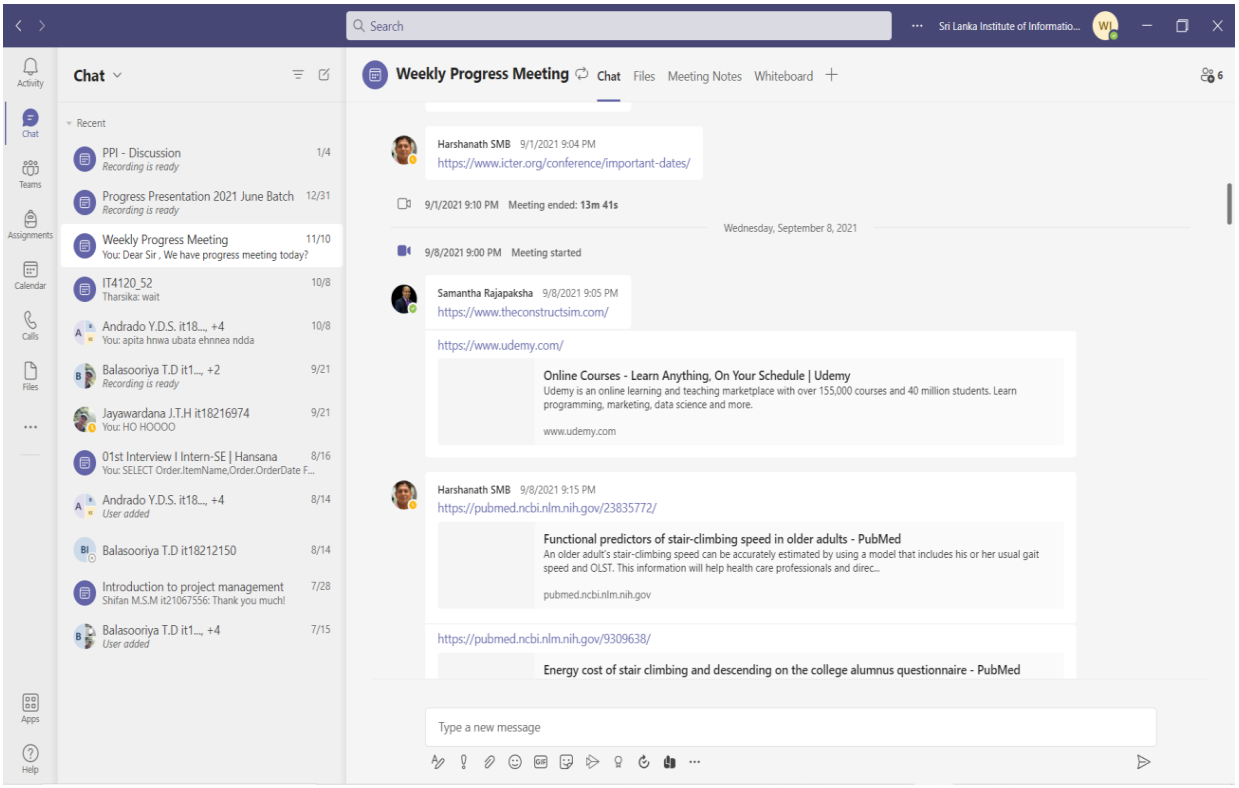
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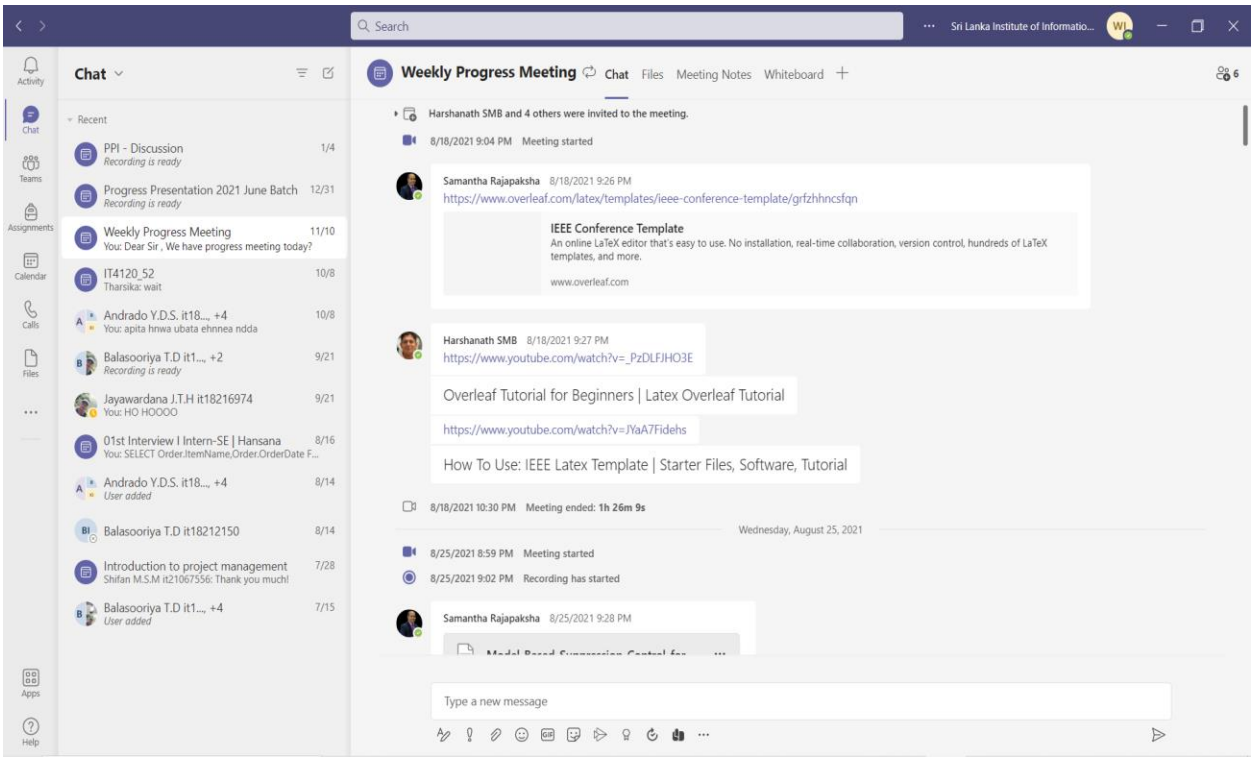
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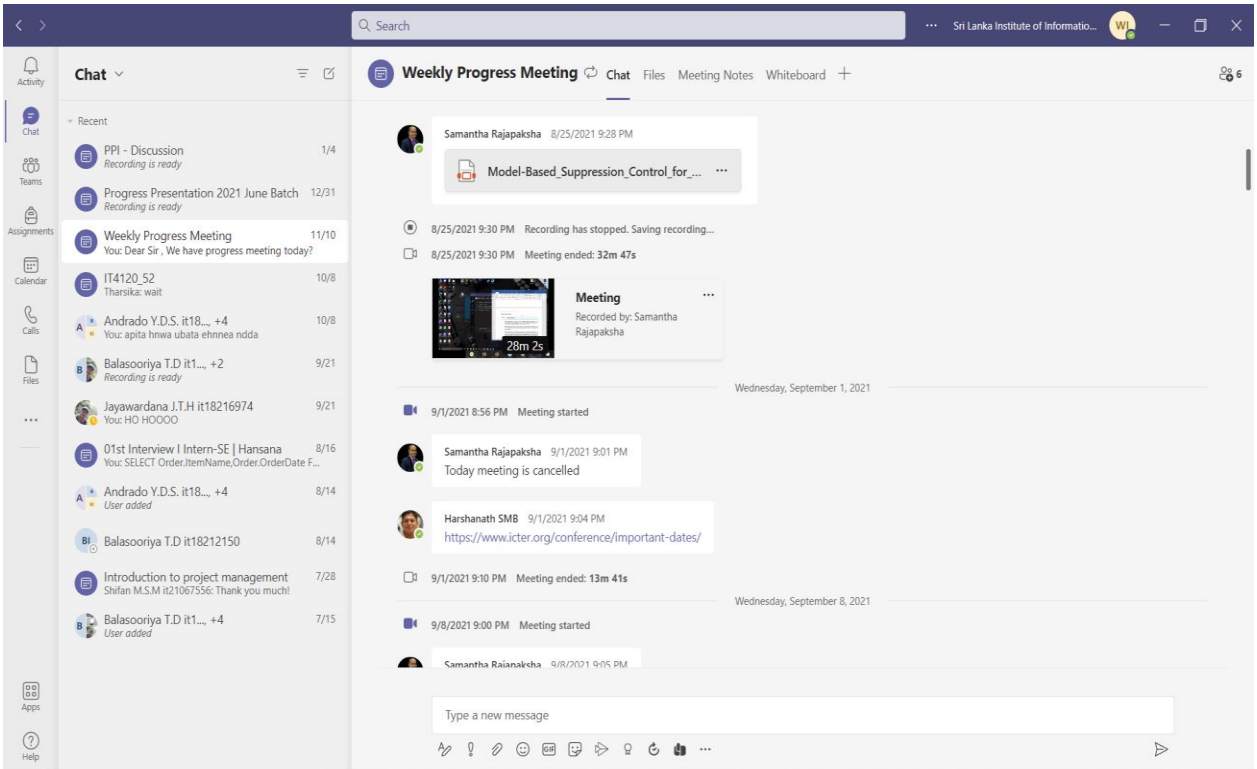
You: HO HOOOO
01st Interview I Intern-SE | Hansana
You: SELECT Order.ItemName,Order.OrderDate F...
Andrado Y.D.S. it18..., +4
User added
Balasooriya T.D it18212150
Introduction to project management
Shifan M.S.M it21067556: Thank you much!
Balasooriya T.D it1..., +4
User added
Harshanath SMB and 4 others were invited to the meeting.
8/18/2021 9:04 PM Meeting started
Samantha Rajapaksha 8/18/2021 9:26 PM
https://www.overleaf.com/latex/templates/ieee-conference-template/grfzhhncsfqn
IEEE Conference Template
An online LaTeX editor that's easy to use. No installation, real-time collaboration, version control, hundreds of LaTeX templates, and more.
www.overleaf.com
Harshanath SMB 8/18/2021 9:27 PM
https://www.youtube.com/watch?v=_PzDLFJHO3E
Overleaf Tutorial for Beginners | Latex Overleaf Tutorial
https://www.youtube.com/watch?v=JYaA7Fidehs
How To Use: IEEE Latex Template | Starter Files, Software, Tutorial
8/18/2021 10:30 PM Meeting ended: 1h 26m 9s
Wednesday, August 25, 2021
8/25/2021 8:59 PM Meeting started
8/25/2021 9:02 PM Recording has started
Samantha Rajapaksha 8/25/2021 9:28 PM
Type a new message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Whiteboard
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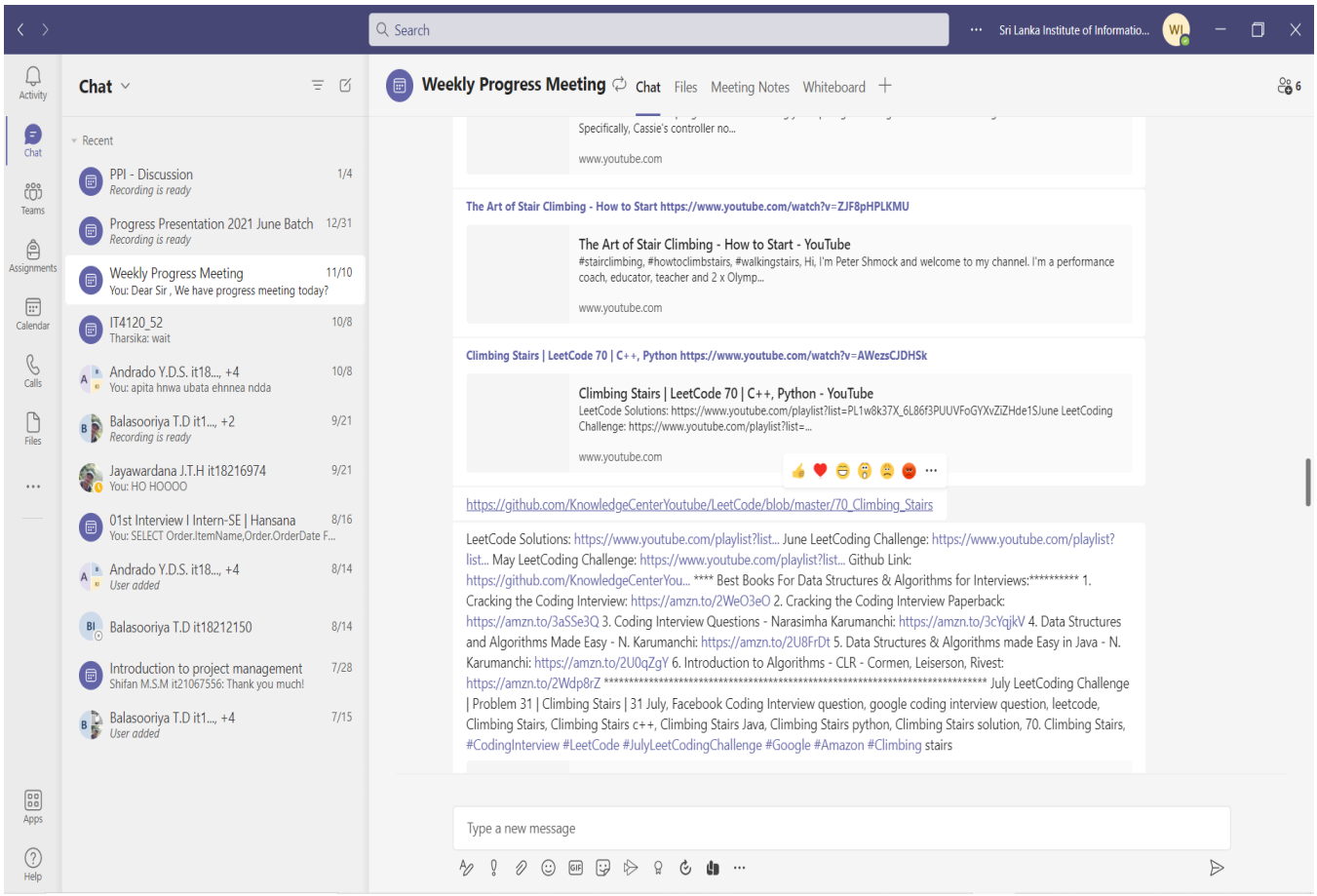
PPI - Discussion
Recording is ready
Progress Presentation 2021 June Batch
Recording is ready
Weekly Progress Meeting
You: Dear Sir , We have progress meeting today?
IT4120_52
Tharsika: wait
Andrado Y.D.S. it18..., +4
You: apita hnwa ubata ehnnea ndda
Balasooriya T.D it1..., +2
Recording is ready
Jayawardana J.T.H it18216974
You: HO HOOOO
01st Interview I Intern-SE | Hansana
You: SELECT Order.ItemName,Order.OrderDate F...
Andrado Y.D.S. it18..., +4
User added
Balasooriya T.D it18212150
Introduction to project management
Shifan M.S.M it21067556: Thank you much!
Balasooriya T.D it1..., +4
User added
Samantha Rajapaksha 8/25/2021 9:28 PM
Model-Based_Suppression_Control_for_...
8/25/2021 9:30 PM Recording has stopped. Saving recording...
8/25/2021 9:30 PM Meeting ended: 32m 47s
28m 2s
Meeting
Recorded by: Samantha Rajapaksha
Wednesday, September 1, 2021
9/1/2021 8:56 PM Meeting started
Samantha Rajapaksha 9/1/2021 9:01 PM
Today meeting is cancelled
Harshanath SMB 9/1/2021 9:04 PM
https://www.icter.org/conference/important-dates/
9/1/2021 9:10 PM Meeting ended: 13m 41s
Wednesday, September 8, 2021
9/8/2021 9:00 PM Meeting started
Type a new message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PPI - Discussion 1/4
Recording is ready
Progress Presentation 2021 June Batch 12/31
Recording is ready
Weekly Progress Meeting 11/10
You: Dear Sir , We have progress meeting today?
IT4120_52 10/8
Tharsika: wait
Andrado Y.D.S. it18..., +4 10/8
You: apita hnwa ubata ehnnea ndda
Balasooriya T.D it1..., +2 9/21
Recording is ready
Jayawardana J.T.H it18216974 9/21
You: HO HOOOO
01st Interview I Intern-SE | Hansana 8/16
You: SELECT Order.ItemName,Order.OrderDate F...
Andrado Y.D.S. it18..., +4 8/14
User added
Balasooriya T.D it18212150 8/14
Introduction to project management 7/28
Shifan M.S.M it21067556: Thank you much!
Balasooriya T.D it1..., +4 7/15
User added
Weekly Progress Meeting
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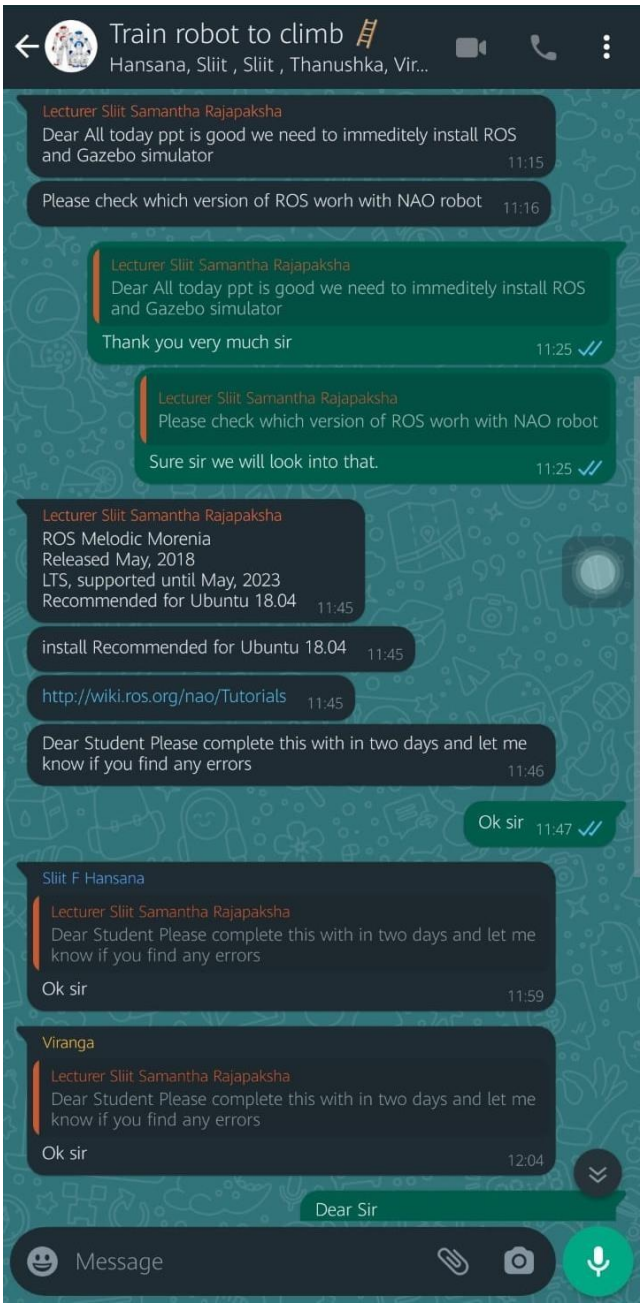
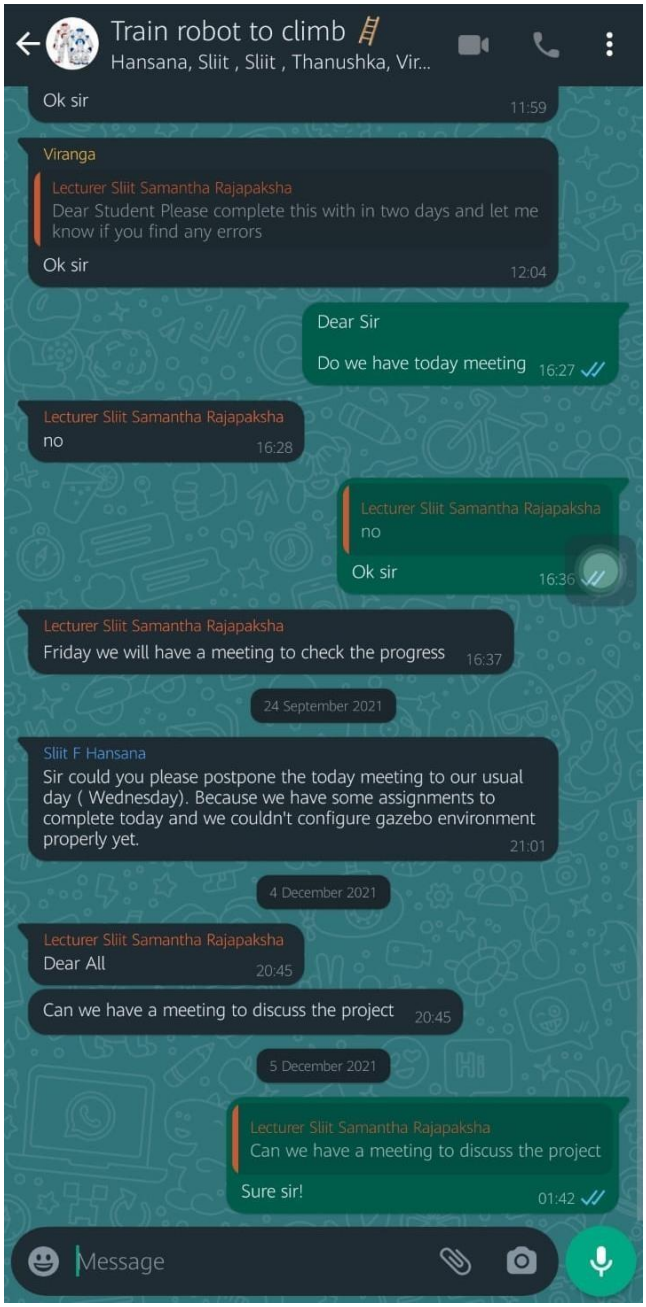
Files
Meeting Notes
Whiteboard
6
Specifically, Cassie's controller no...
www.youtube.com
The Art of Stair Climbing - How to Start https://www.youtube.com/watch?v=ZJF8pHPLKMU
The Art of Stair Climbing - How to Start - YouTube
#stairclimbing, #howtoclimbstairs, #walkingstairs, Hi, I'm Peter Shmock and welcome to my channel. I'm a performance coach, educator, teacher and 2 x Olymp...
www.youtube.com
Climbing Stairs | LeetCode 70 | C++, Python https://www.youtube.com/watch?v=AWezsCJDHSk
Climbing Stairs | LeetCode 70 | C++, Python - YouTube
LeetCode Solutions: https://www.youtube.com/playlist?list=PL1w8k37X_6L86f3PUUVFoGYXvZiZHde1SJune LeetCoding Challenge: https://www.youtube.com/playlist?list=...
www.youtube.com
https://github.com/KnowledgeCenterYoutube/LeetCode/blob/master/70_Climbing_Stairs
LeetCode Solutions: https://www.youtube.com/playlist?list... June LeetCoding Challenge: https://www.youtube.com/playlist?list... May LeetCoding Challenge: https://www.youtube.com/playlist?list... Github Link: https://github.com/KnowledgeCenterYou... **** Best Books For Data Structures & Algorithms for Interviews:********* 1. Cracking the Coding Interview: https://amzn.to/2WeO3eO 2. Cracking the Coding Interview Paperback: https://amzn.to/3aSSe3Q 3. Coding Interview Questions - Narasimha Karumanchi: https://amzn.to/3cYqjkV 4. Data Structures and Algorithms Made Easy - N. Karumanchi: https://amzn.to/2U8FrDt 5. Data Structures & Algorithms made Easy in Java - N. Karumanchi: https://amzn.to/2U0qZgY 6. Introduction to Algorithms - CLR - Cormen, Leiserson, Rivest: https://amzn.to/2Wdp8rZ ********** July LeetCoding Challenge | Problem 31 | Climbing Stairs | 31 July, Facebook Coding Interview question, google coding interview question, leetcode, Climbing Stairs, Climbing Stairs c++, Climbing Stairs Java, Climbing Stairs python, Climbing Stairs solution, 70. Climbing Stairs, #CodingInterview #LeetCode #JulyLeetCodingChallenge #Google #Amazon #Climbing stairs
Type a new message

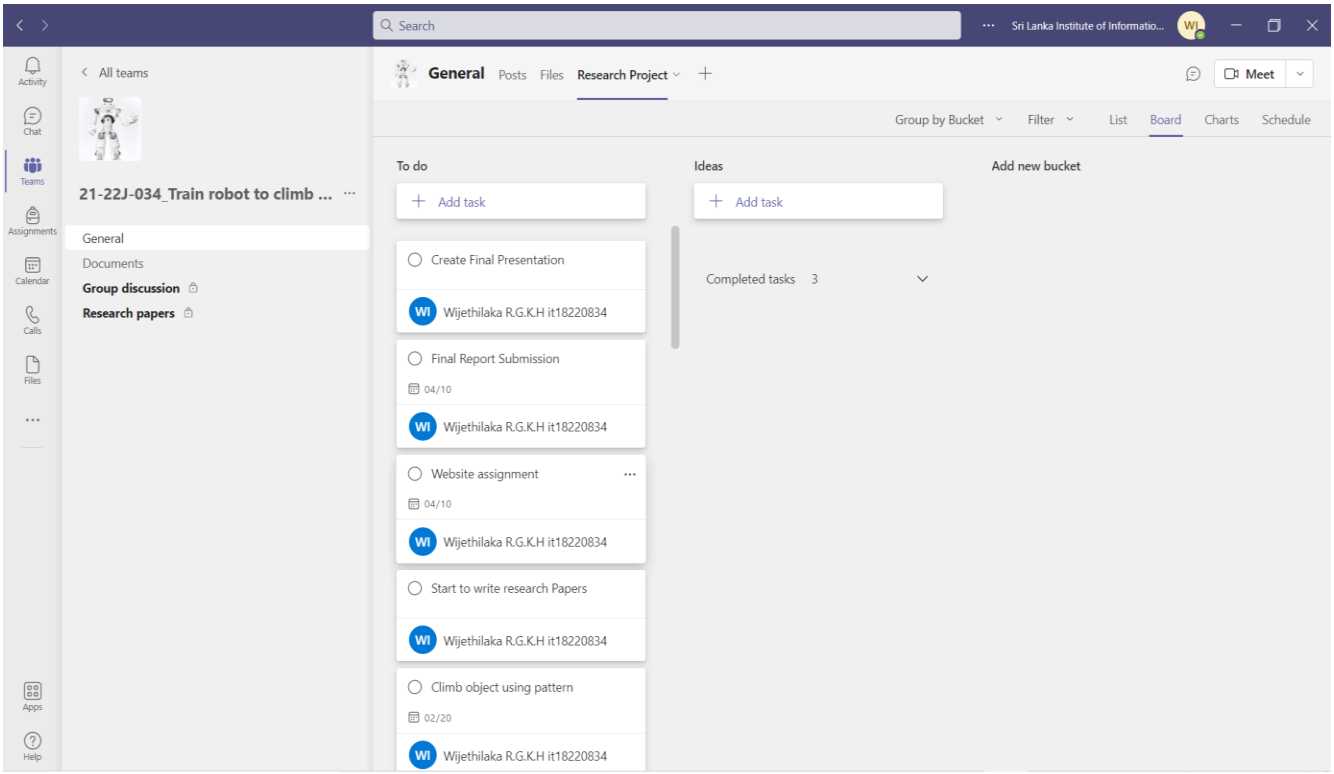
1.2 WhatsApp

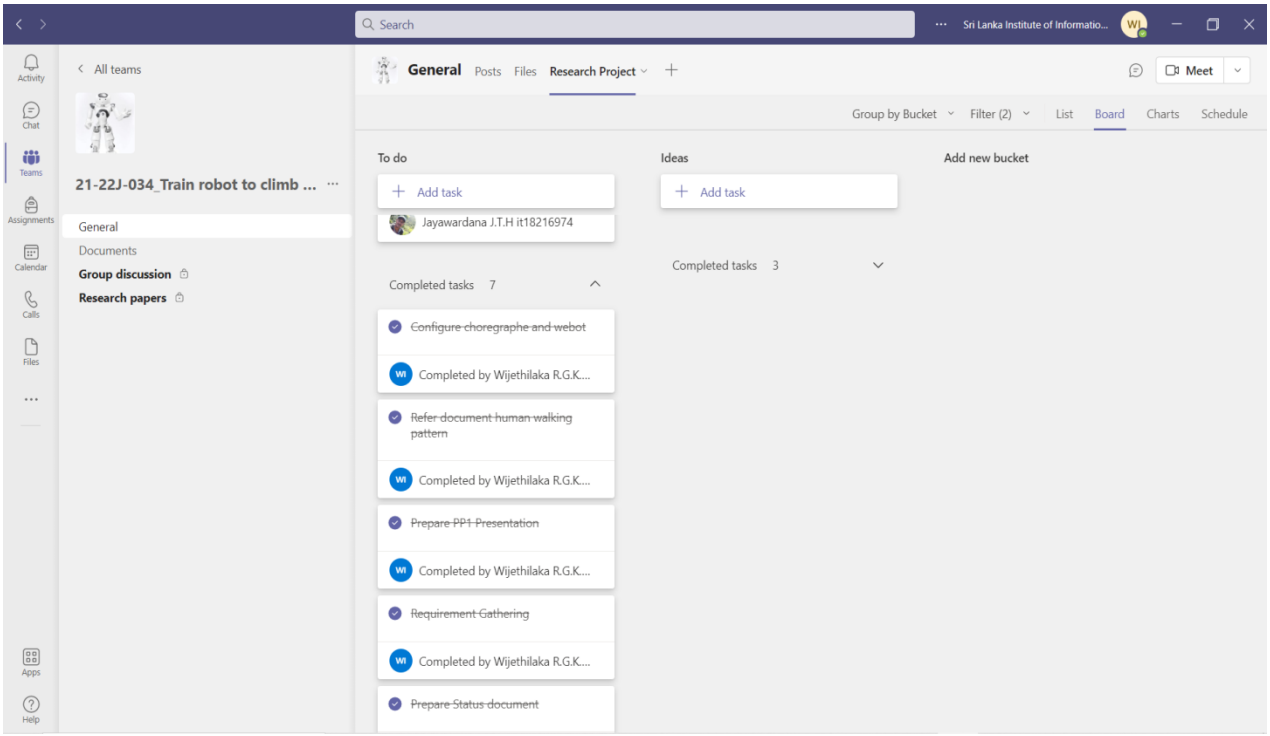

Train robot to climb
Hansana, Sliit , Sliit , Thanushka, Vir...
Lecturer Sliit Samantha Rajapaksha
Dear All today ppt is good we need to immeditely install ROS and Gazebo simulator 11:15
Please check which version of ROS worh with NAO robot 11:16
Lecturer Sliit Samantha Rajapaksha
Dear All today ppt is good we need to immeditely install ROS and Gazebo simulator
Thank you very much sir 11:25
Lecturer Sliit Samantha Rajapaksha
Please check which version of ROS worh with NAO robot
Sure sir we will look into that. 11:25
Lecturer Sliit Samantha Rajapaksha
ROS Melodic Morenia
Released May, 2018
LTS, supported until May, 2023
Recommended for Ubuntu 18.04 11:45
install Recommended for Ubuntu 18.04 11:45
http://wiki.ros.org/nao/Tutorials 11:45
Dear Student Please complete this with in two days and let me know if you find any errors 11:46
Ok sir 11:47
Sliit F Hansana
Lecturer Sliit Samantha Rajapaksha
Dear Student Please complete this with in two days and let me know if you find any errors
Ok sir 11:59
Viranga
Lecturer Sliit Samantha Rajapaksha
Dear Student Please complete this with in two days and let me know if you find any errors
Ok sir 12:04
Dear Sir
Message


Train robot to climb
Hansana, Sliit , Sliit , Thanushka, Vir...
Ok sir 11:59
Viranga
Lecturer Sliit Samantha Rajapaksha
Dear Student Please complete this with in two days and let me know if you find any errors
Ok sir 12:04
Dear Sir
Do we have today meeting 16:27
Lecturer Sliit Samantha Rajapaksha
no 16:28
Lecturer Sliit Samantha Rajapaksha
no
Ok sir 16:36
Lecturer Sliit Samantha Rajapaksha
Friday we will have a meeting to check the progress 16:37
24 September 2021
Sliit F Hansana
Sir could you please postpone the today meeting to our usual day (Wednesday). Because we have some assignments to complete today and we couldn't configure gazebo environment properly yet. 21:01
4 December 2021
Lecturer Sliit Samantha Rajapaksha
Dear All 20:45
Can we have a meeting to discuss the project 20:45
5 December 2021
Lecturer Sliit Samantha Rajapaksha
Can we have a meeting to discuss the project
Sure sir! 01:42
Message

2 Project View/Gantt Chart

1. Work Breakdown Structure




Search
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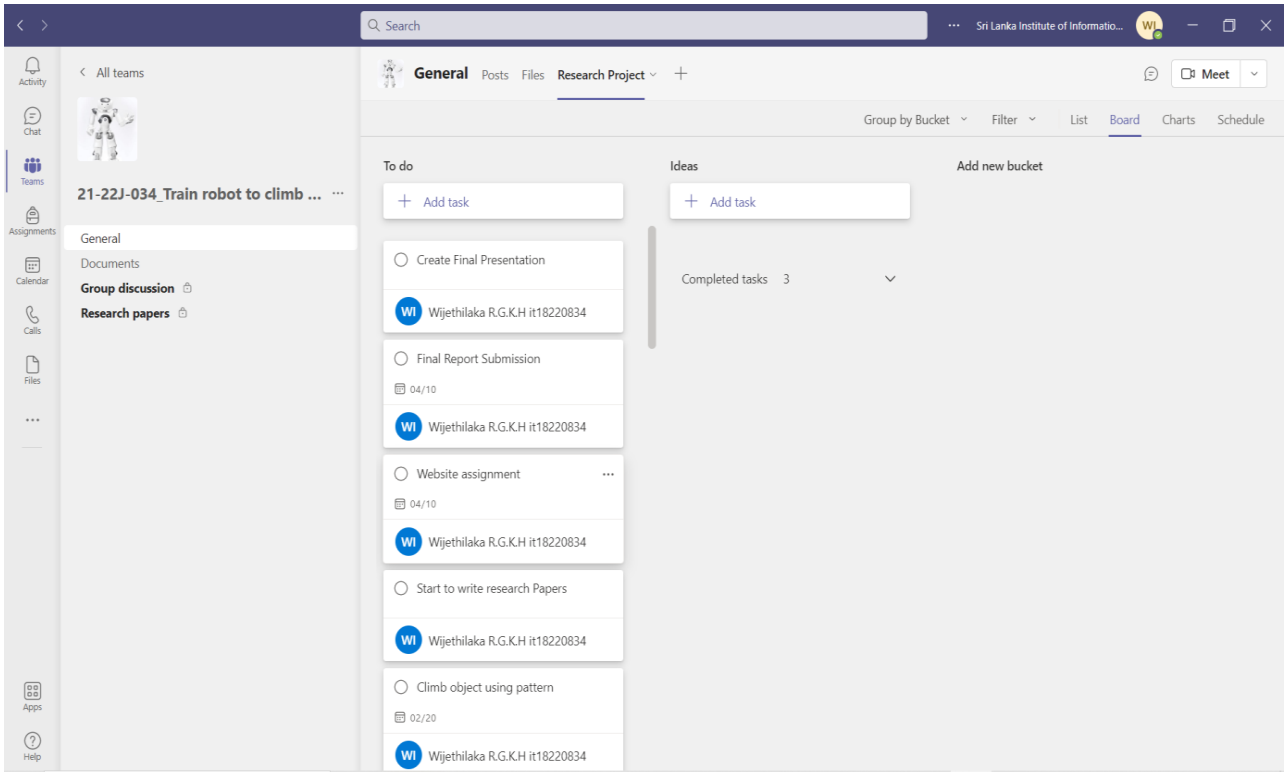
Help
All teams
21-22J-034_Train robot to climb ...
General
Documents
Group discussion
Research papers
General
Posts
Files
Research Project
Meet
Group by Bucket
Filter (2)
List
Board
Charts
Schedule
To do
Add task
Jayawardana J.T.H it18216974
Completed tasks 7
Configure choregraphe and webot
Completed by Wijethilaka R.G.K....
Refer document human walking pattern
Completed by Wijethilaka R.G.K....
Prepare PP1 Presentation
Completed by Wijethilaka R.G.K....
Requirement Gathering
Completed by Wijethilaka R.G.K....
Prepare Status document
Ideas
Add task
Completed tasks 3
Add new bucket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Assignments
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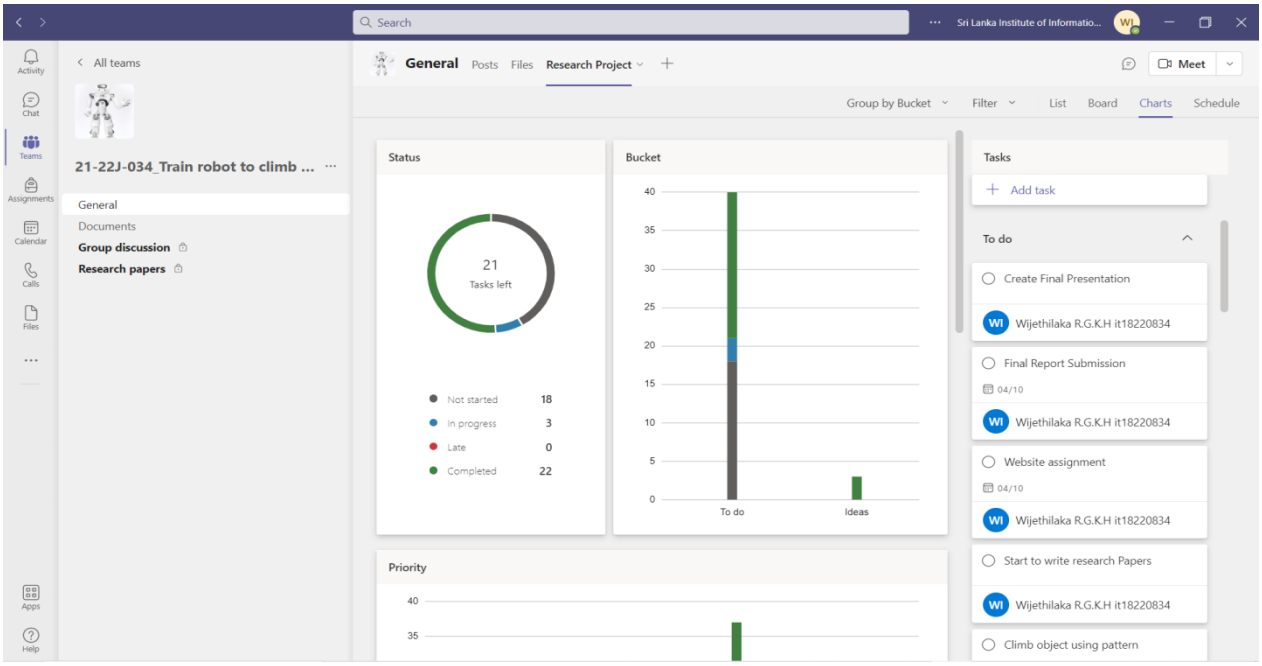
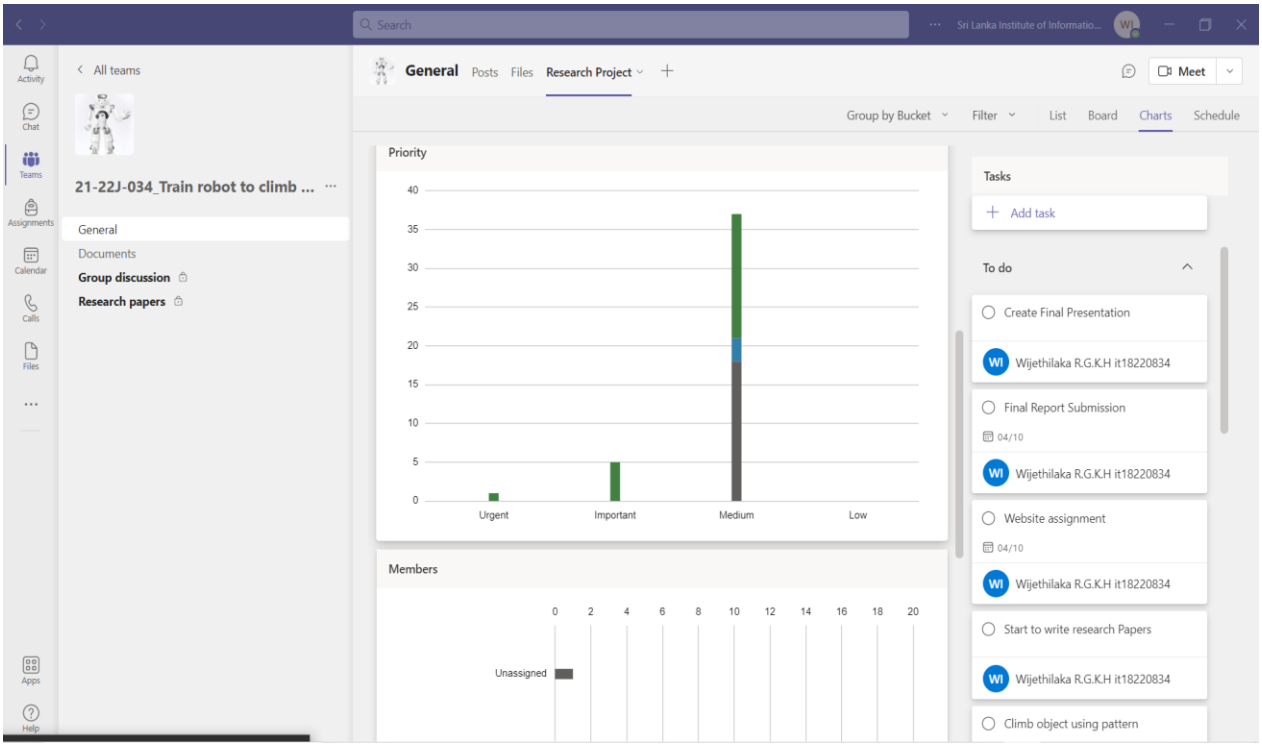
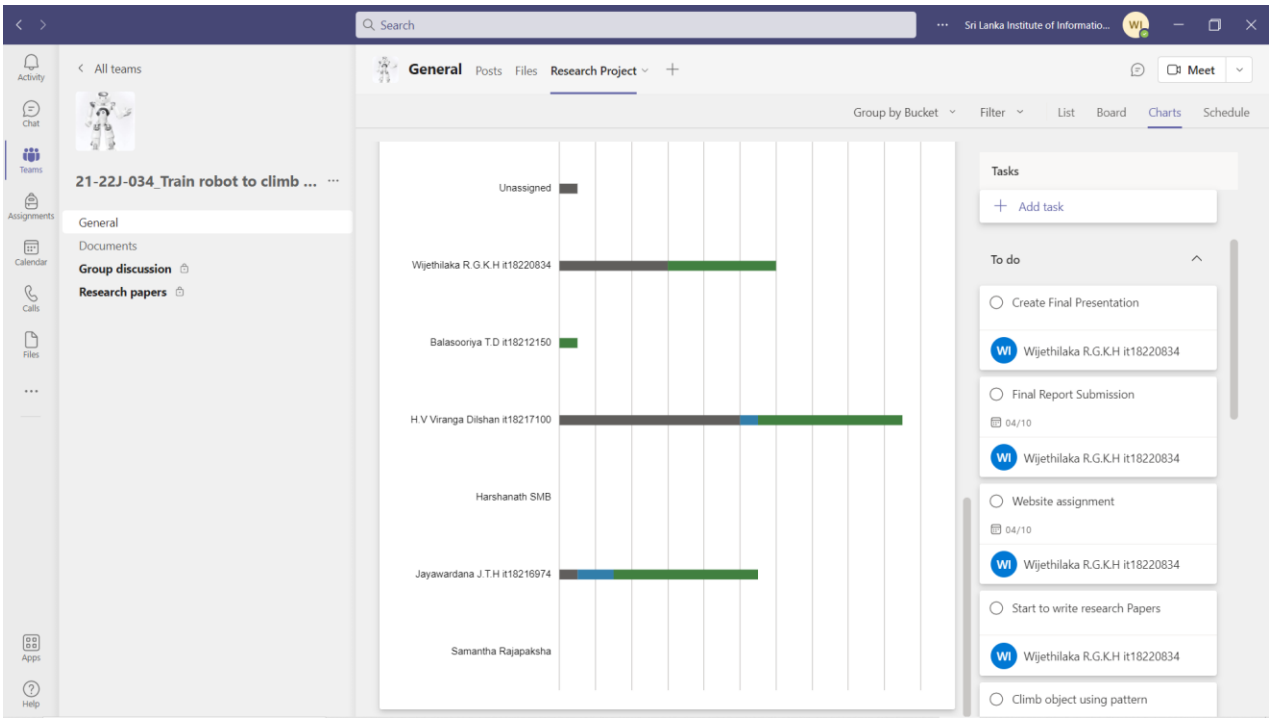
Calls
Files
Apps
Help
All teams
21-22J-034_Train robot to climb ...
General
Documents
Group discussion
Research papers
General
Posts
Files
Research Project
Meet
Group by Bucket
Filter
List
Board
Charts
Schedule
To do
Add task
Create Final Presentation
Wijethilaka R.G.K.H it18220834
Final Report Submission
04/10
Wijethilaka R.G.K.H it18220834
Website assignment
04/10
Wijethilaka R.G.K.H it18220834
Start to write research Papers
Wijethilaka R.G.K.H it18220834
Climb object using pattern
02/20
Wijethilaka R.G.K.H it18220834
Ideas
Add task
Completed tasks 3
Add new bucket

2.2 MS Teams Generate Report






Search
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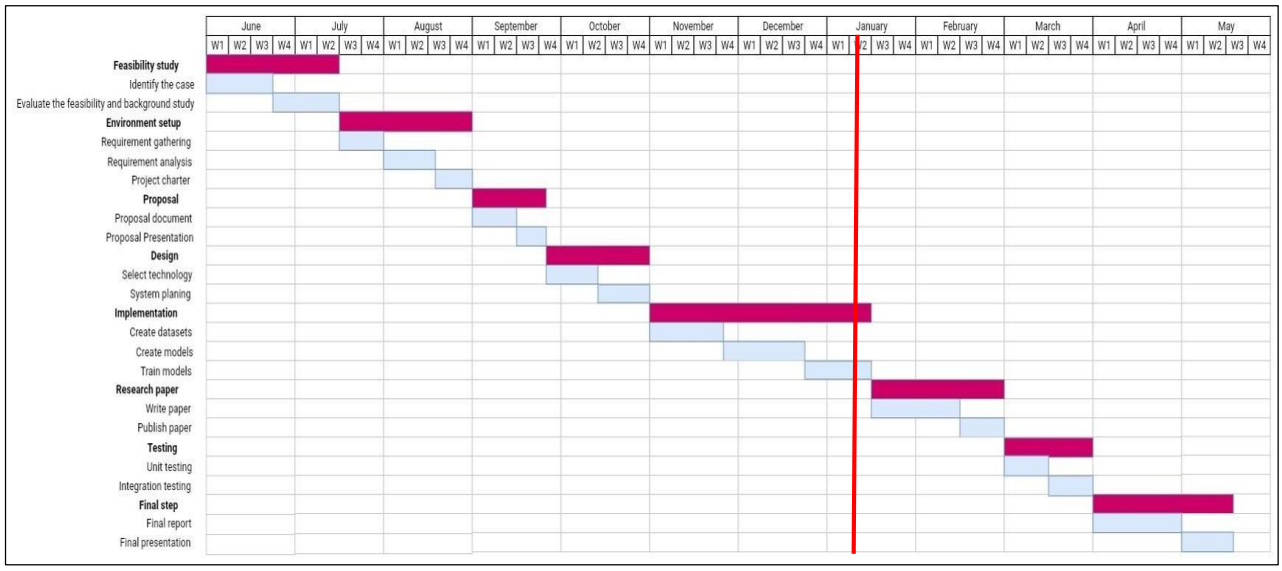
All teams
21-22J-034_Train robot to climb ...
General
Documents
Group discussion
Research papers
General
Posts
Files
Research Project
Meet
Group by Bucket
Filter
List
Board
Charts
Schedule
Unassigned
Wijethilaka R.G.K.H it18220834
Balasooriya T.D it18212150
H.V Viranga Dilshan it18217100
Harshanath SMB
Jayawardana J.T.H it18216974
Samantha Rajapaksha
Tasks
Add task
To do
Create Final Presentation
Wijethilaka R.G.K.H it18220834
Final Report Submission
04/10
Wijethilaka R.G.K.H it18220834
Website assignment
04/10
Wijethilaka R.G.K.H it18220834
Start to write research Papers
Wijethilaka R.G.K.H it18220834
Climb object using pattern

2.3 Gantt Chart