Train Robot to Climb Stairs: Maintain Stability of Robot

21_22-J 34

Status Document 1

Balasooriya T.D

IT18212150

Supervisor – Mr. Samantha Rajapakshe Co-Supervisor –
Mr.S.M.B. Harshanath

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

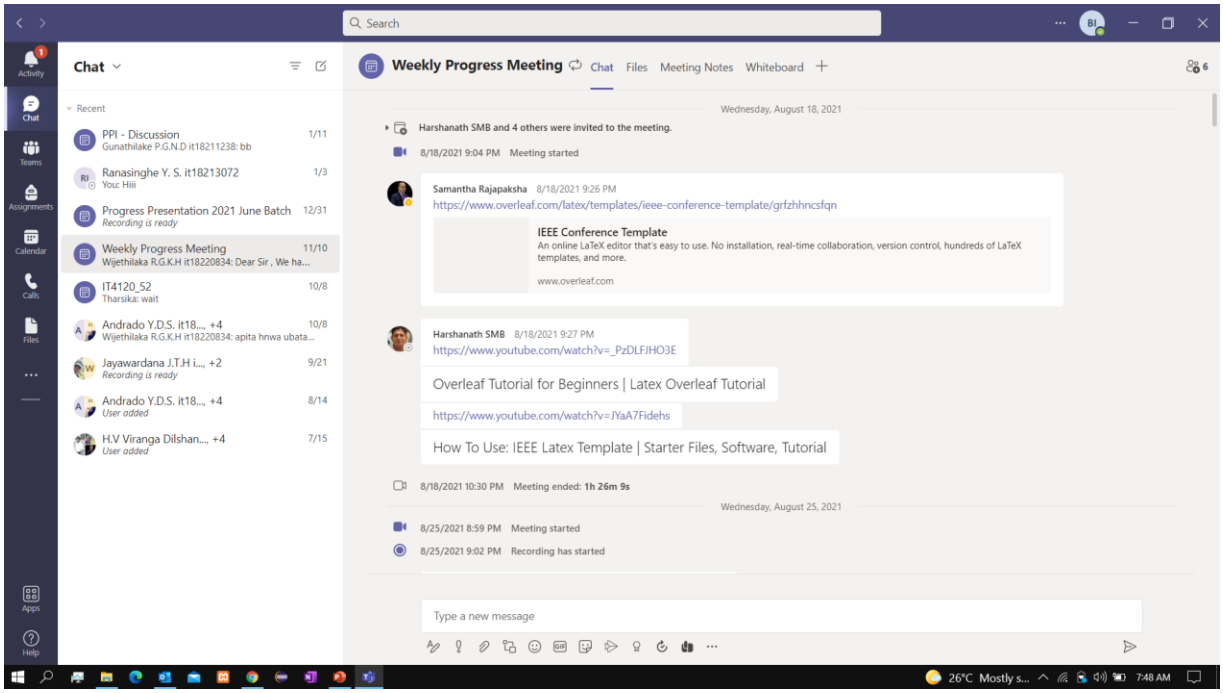
Department of Information Technology

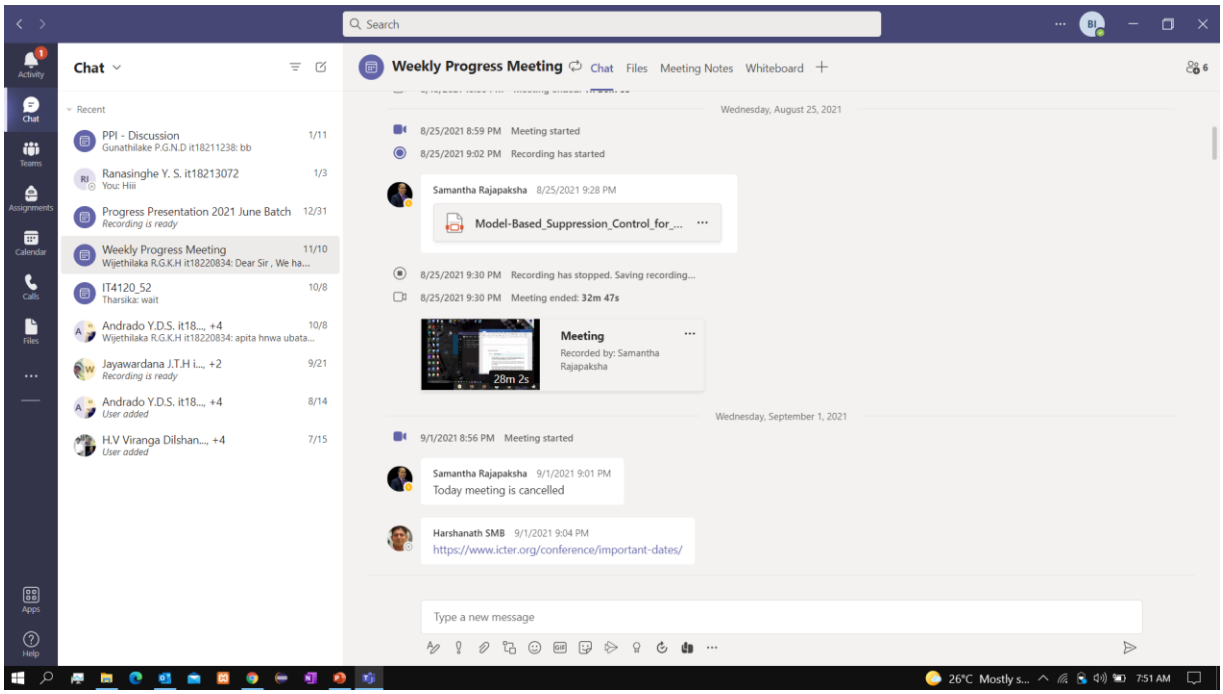
Sri Lanka Institute of Information Technology
Sri Lanka

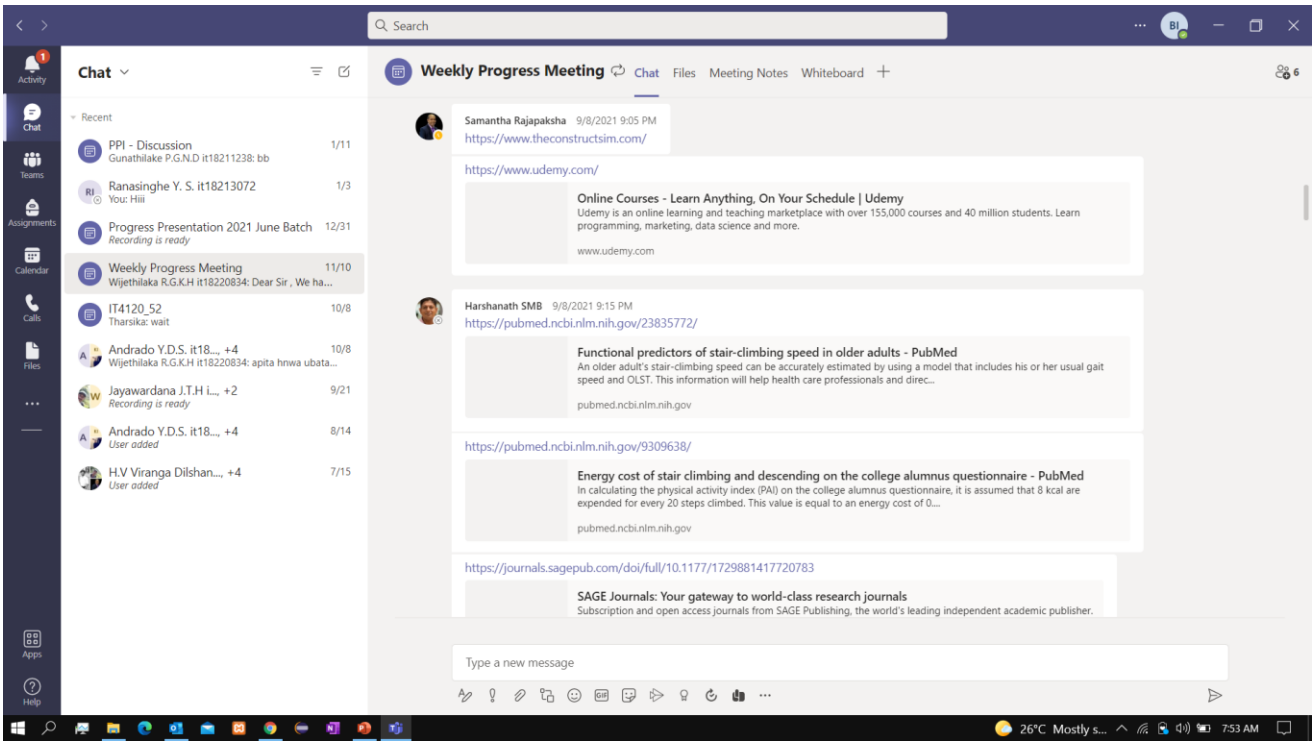
January 2022

1) Screenshots of chats and calls with supervisors

    1. MS Teams



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Gunathilake P.G.N.D it18211238: bb
Ranasinghe Y. S. it18213072 1/3
You: Hiii
Progress Presentation 2021 June Batch 12/31
Recording is ready
Weekly Progress Meeting 11/10
Wijethilaka R.G.K.H it18220834: Dear Sir , We ha...
IT4120_52 10/8
Tharsika: wait
Andrado Y.D.S. it18..., +4 10/8
Wijethilaka R.G.K.H it18220834: apita hnwa ubata...
Jayawardana J.T.H i..., +2 9/21
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User added
H.V Viranga Dilshan..., +4 7/15
User added
Samantha Rajapaksha 9/8/2021 9:05 PM
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https://www.udemy.com/
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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
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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
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....
pubmed.ncbi.nlm.nih.gov
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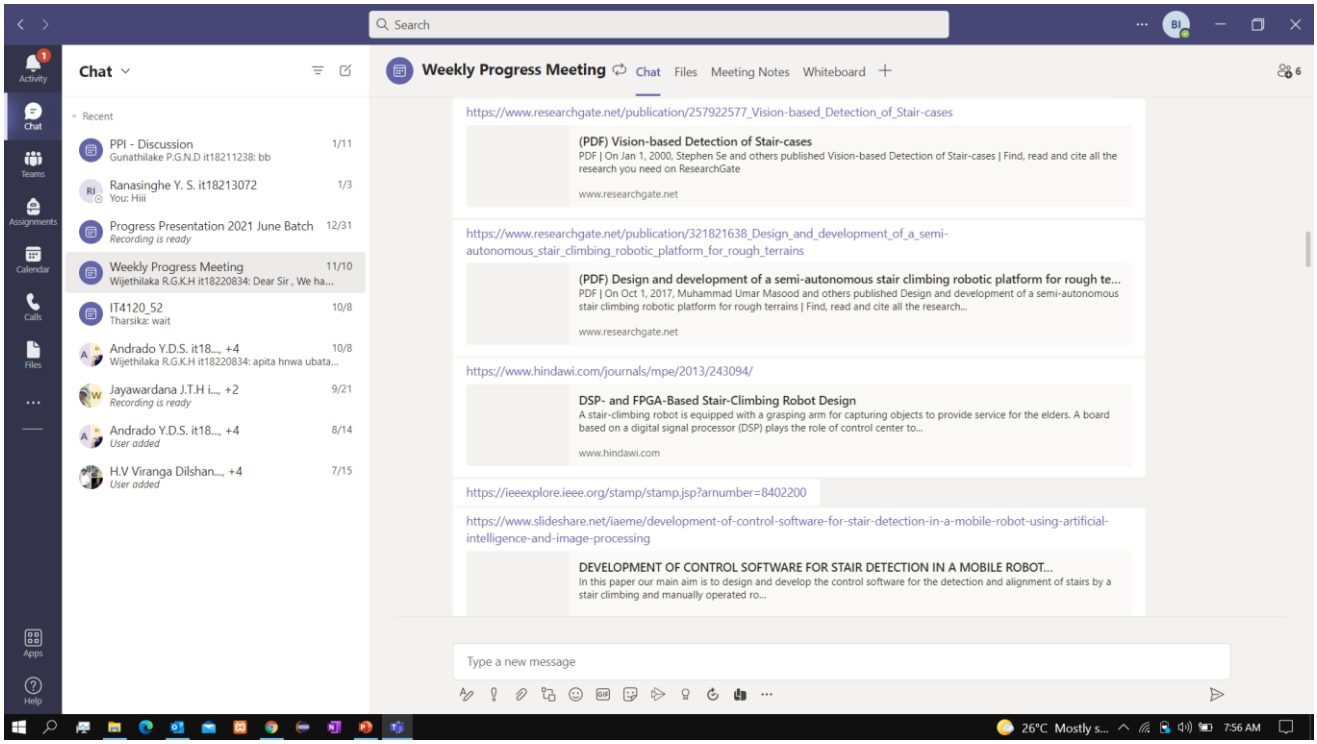
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User added
https://www.researchgate.net/publication/257922577_Vision-based_Detection_of_Stair-cases
(PDF) Vision-based Detection of Stair-cases
PDF | On Jan 1, 2000, Stephen Se and others published Vision-based Detection of Stair-cases | Find, read 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
(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/
DSP- and FPGA-Based Stair-Climbing Robot Design
A stair-climbing robot is equipped with a grasping arm for capturing objects to provide service for the elders. A board based on a digital signal processor (DSP) plays the role of control center to...
www.hindawi.com
https://ieeexplore.ieee.org/stamp/stamp.jsp?arnumber=8402200
https://www.slideshare.net/iaeme/development-of-control-software-for-stair-detection-in-a-mobile-robot-using-artificial-intelligence-and-image-processing
DEVELOPMENT OF CONTROL SOFTWARE FOR STAIR DETECTION IN A MOBILE ROBOT...
In this paper our main aim is to design and develop the control software for the detection and alignment of stairs by a stair climbing and manually operated ro...
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User added

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User added

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9/8/2021 9:28 PM **Meeting ended: 28m 4s**

Wednesday, September 15, 2021

9/15/2021 8:58 PM Meeting started

Jayawardana J.T.H it18216974 9/15/2021 9:04 PM
Dear Sir don't we have meeting today.

9/15/2021 9:36 PM **Meeting ended: 37m 39s**

Thursday, September 16, 2021

Harshanath SMB 9/16/2021 8:50 PM
https://www.icarc.lk/

try to have a paper set

Saturday, September 18, 2021

Jayawardana J.T.H it18216974 9/18/2021 9:00 PM
Dear Sir
Here is the our research proposal presentation which we expect to present.

21_22-J 34.pptx

Sunday, September 19, 2021

Harshanath SMB 9/19/2021 9:49 AM

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User added

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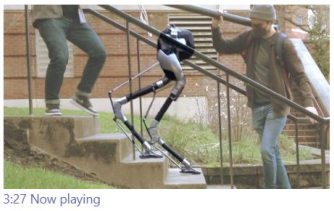
User added

Weekly Progress Meeting Chat Files Meeting Notes Whiteboard

Sunday, September 19, 2021

Harshanath SMB 9/19/2021 9:49 AM



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...

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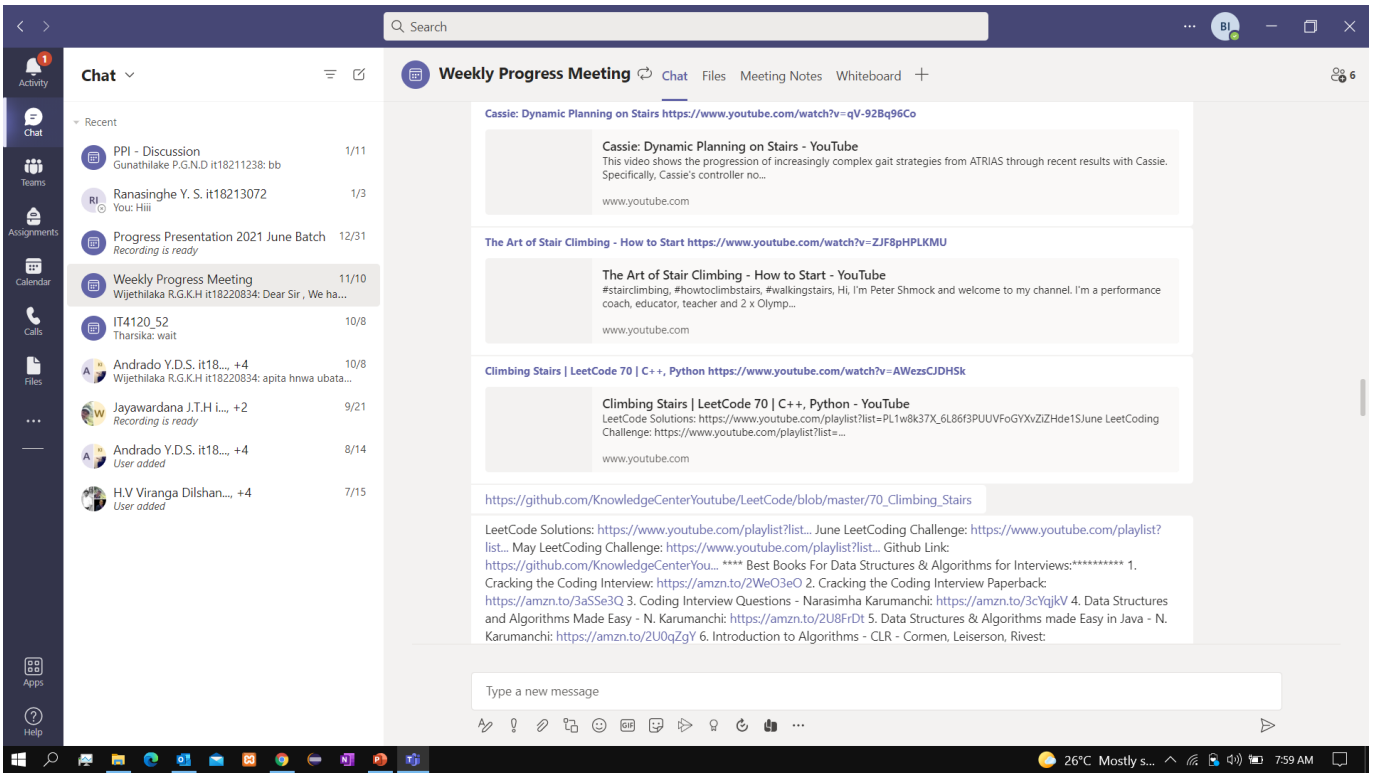
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Cassie: Dynamic Planning on Stairs https://www.youtube.com/watch?v=qV-92Bq96Co
Cassie: Dynamic Planning on Stairs - YouTube
This video shows the progression of increasingly complex gait strategies from ATRIAS through recent results with Cassie. Specifically, Cassie's controller no...
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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
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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:
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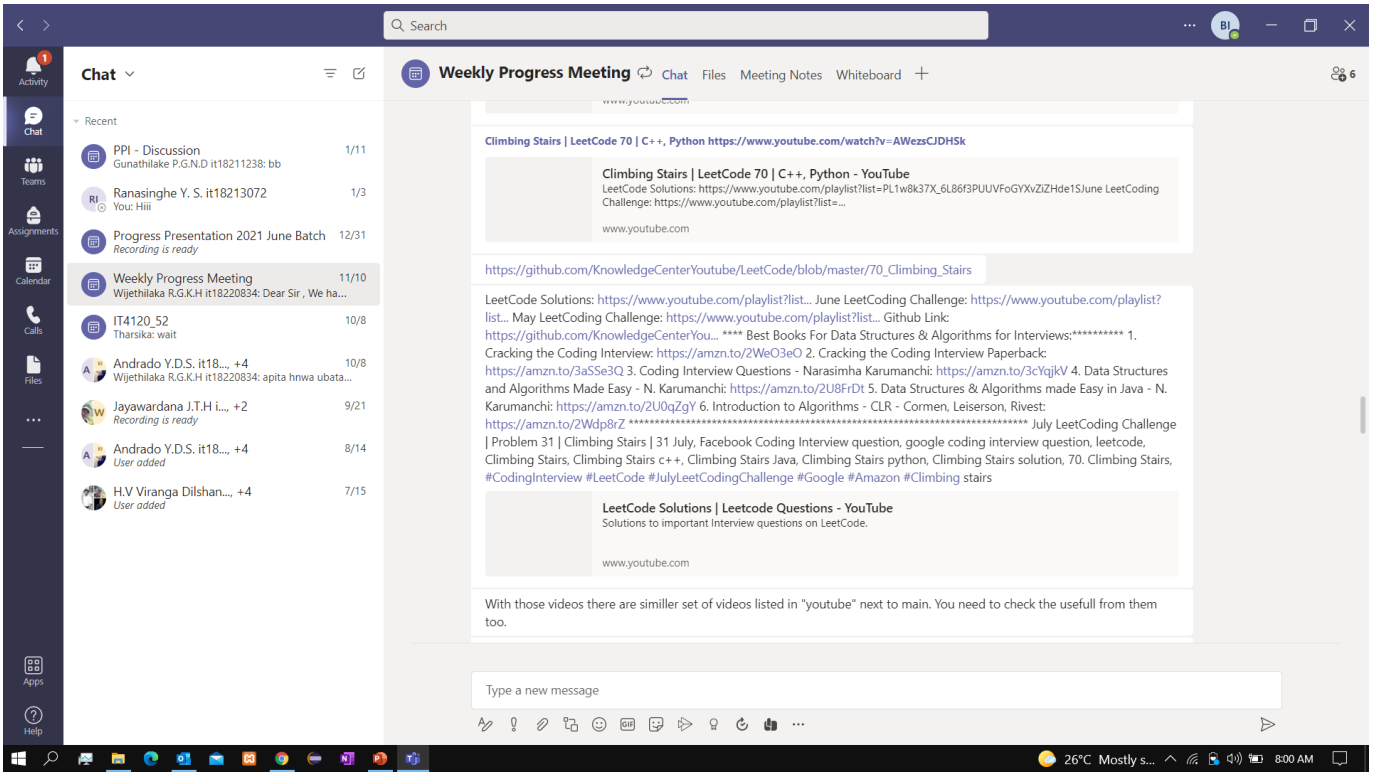
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User added
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LeetCode Solutions: https://www.youtube.com/playlist?list=PL1w8k37X_6L86f3PUUVFoGYXvZiZHde1SJune LeetCoding Challenge: https://www.youtube.com/playlist?list=...
www.youtube.com
https://github.com/KnowledgeCenterYoutube/LeetCode/blob/master/70_Climbing_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
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Solutions to important Interview questions on LeetCode.
www.youtube.com
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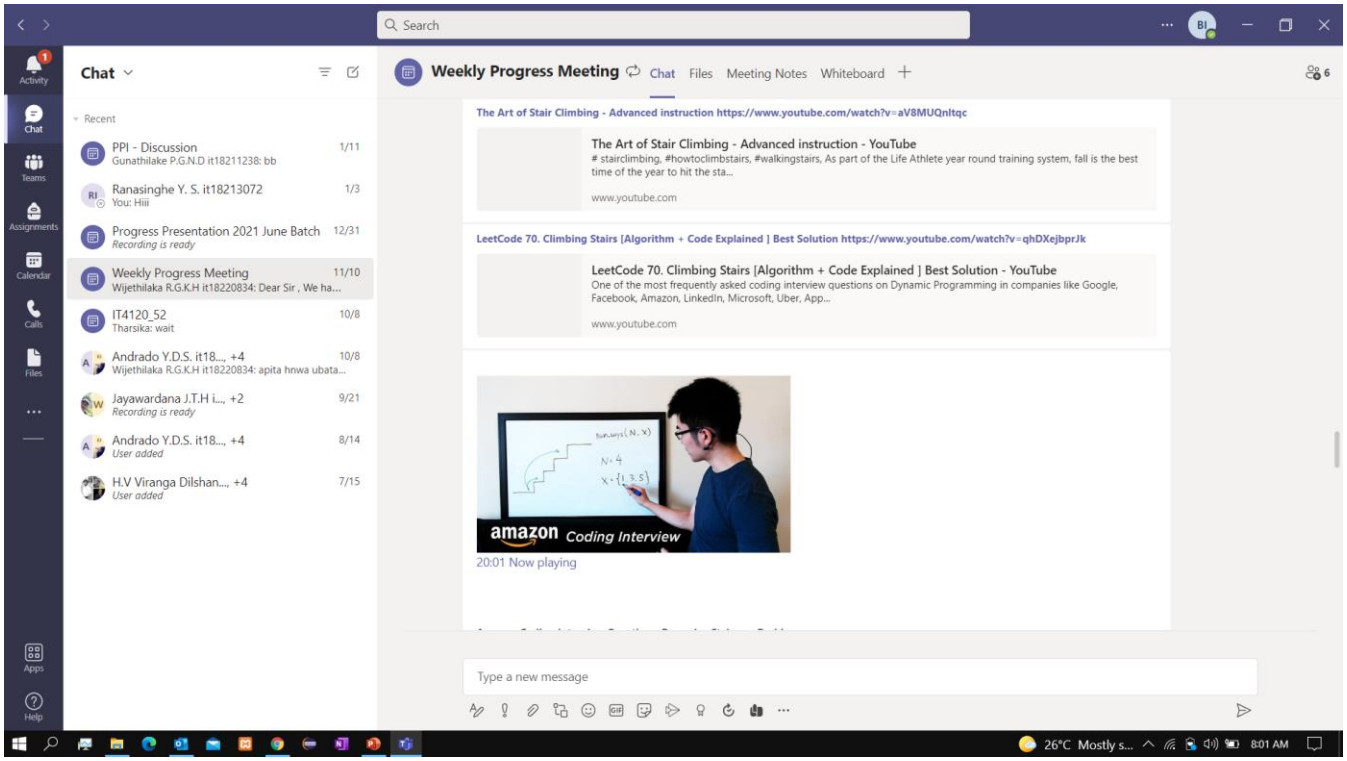
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The Art of Stair Climbing - Advanced instruction - YouTube
stairclimbing, #howtoclimbstairs, #walkingstairs, As part of the Life Athlete year round training system, fall is the best time of the year to hit the sta...
www.youtube.com
LeetCode 70. Climbing Stairs [Algorithm + Code Explained] Best Solution https://www.youtube.com/watch?v=qhDXejbprJk
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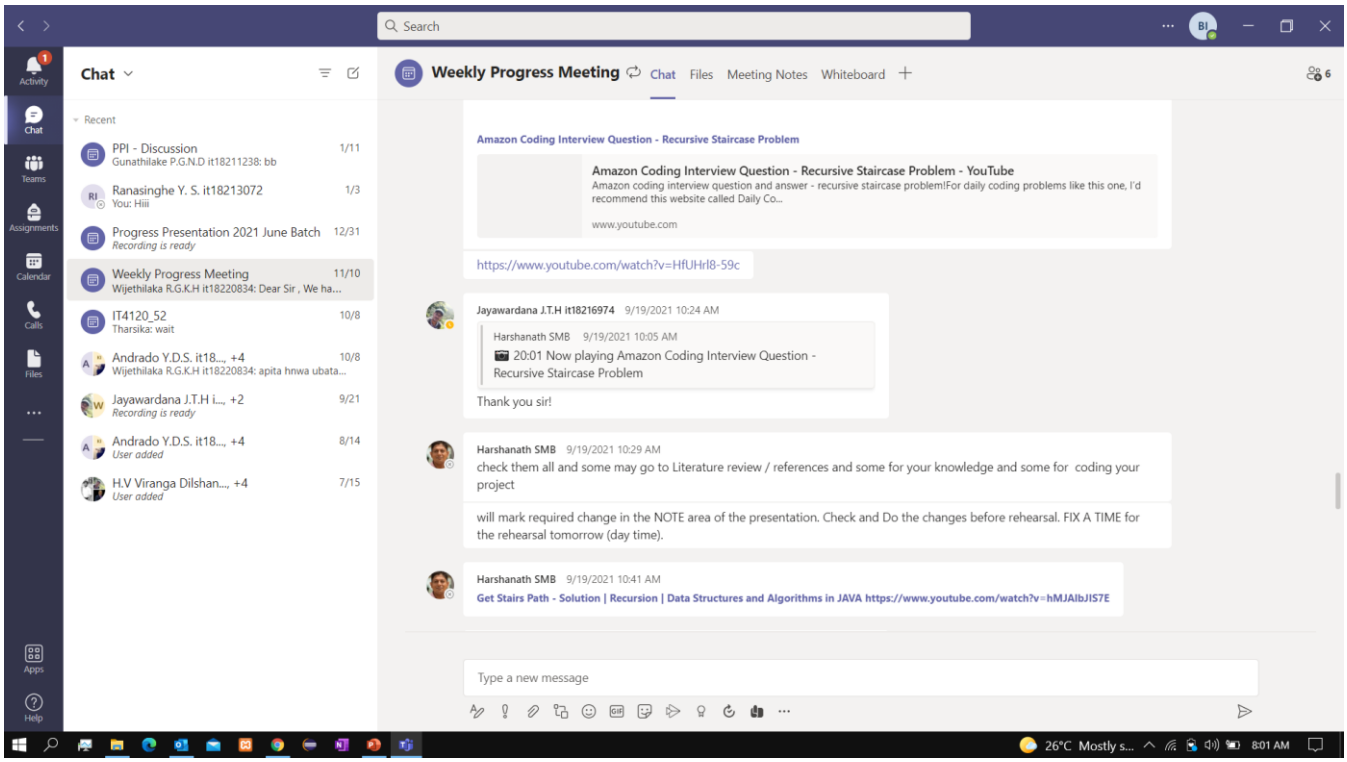
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Amazon Coding Interview Question - Recursive Staircase Problem
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Amazon coding interview question and answer - recursive staircase problem!For daily coding problems like this one, I'd recommend this website called Daily Co...
www.youtube.com
https://www.youtube.com/watch?v=HfUHrl8-59c
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
check them all and some may go to Literature review / references and some for your knowledge and some for coding your project
will mark required change in the NOTE area of the presentation. Check and Do the changes before rehearsal. FIX A TIME for the rehearsal tomorrow (day time).
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
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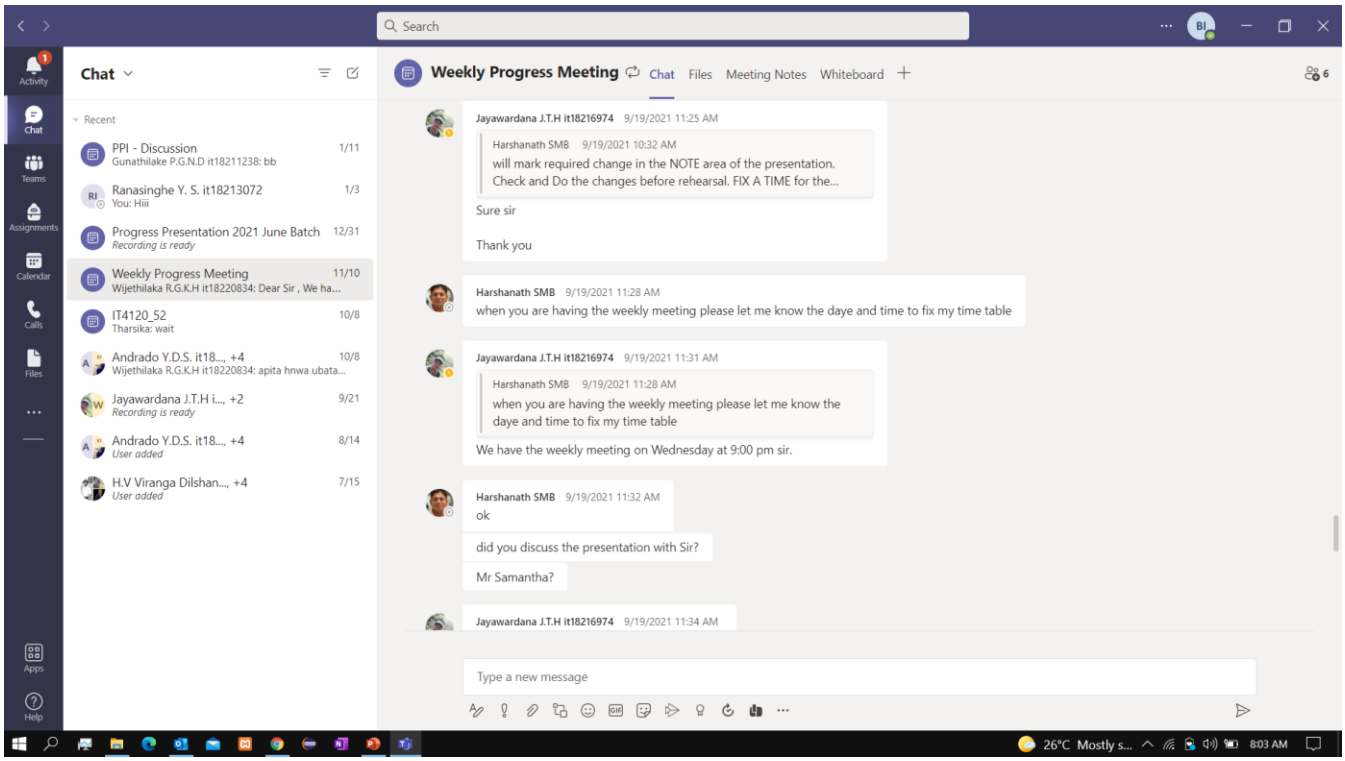
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Jayawardana J.T.H it18216974 9/19/2021 11:25 AM
Harshanath SMB 9/19/2021 10:32 AM
will mark required change in the NOTE area of the presentation. Check and Do the changes before rehearsal. FIX A TIME for the...
Sure sir
Thank you
Harshanath SMB 9/19/2021 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?
Mr Samantha?
Jayawardana J.T.H it18216974 9/19/2021 11:34 AM
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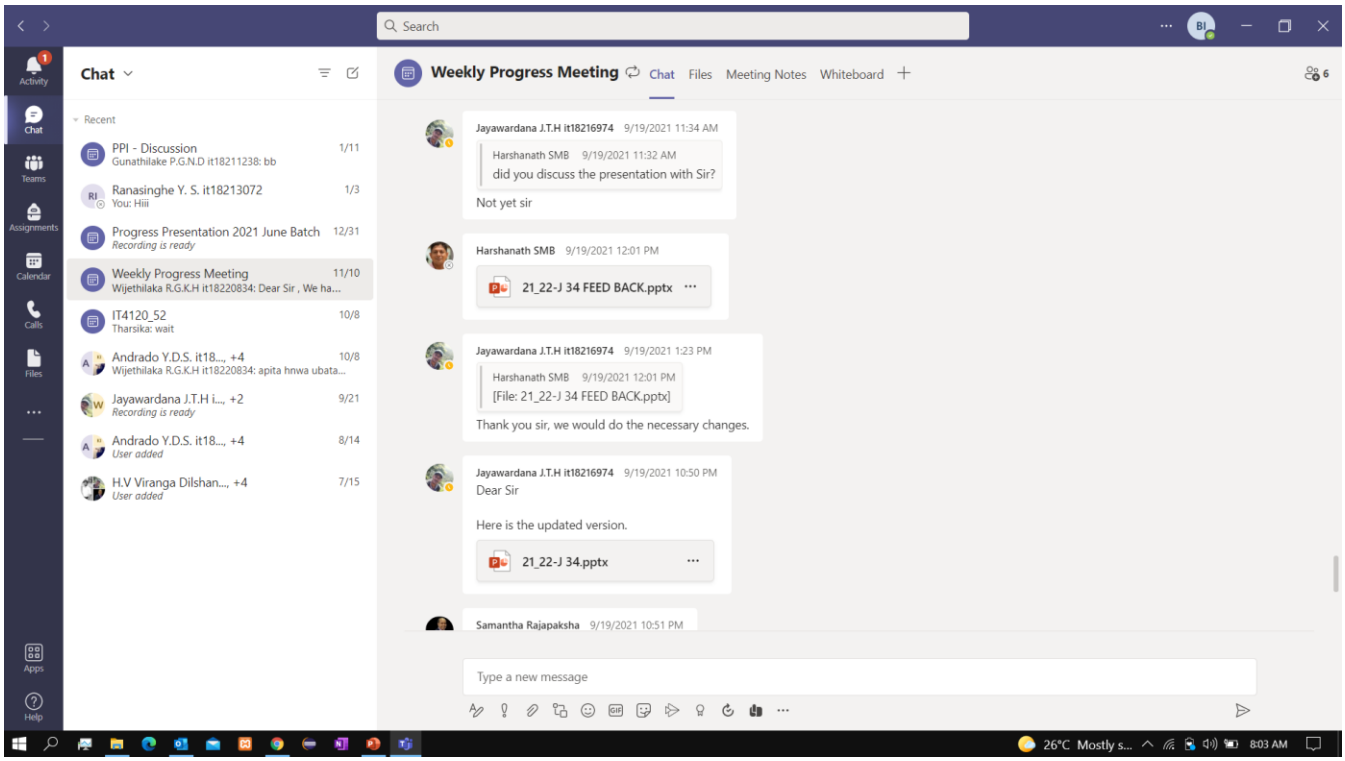
8:03 AM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Jayawardana J.T.H it18216974 9/19/2021 11:34 AM
Harshanath SMB 9/19/2021 11:32 AM
did you discuss the presentation with Sir?
Not yet sir
Harshanath SMB 9/19/2021 12:01 PM
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Harshanath SMB 9/19/2021 12:01 PM
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Thank you sir, we would do the necessary changes.
Jayawardana J.T.H it18216974 9/19/2021 10:50 PM
Dear Sir
Here is the updated version.
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Samantha Rajapaksha 9/19/2021 10:51 PM
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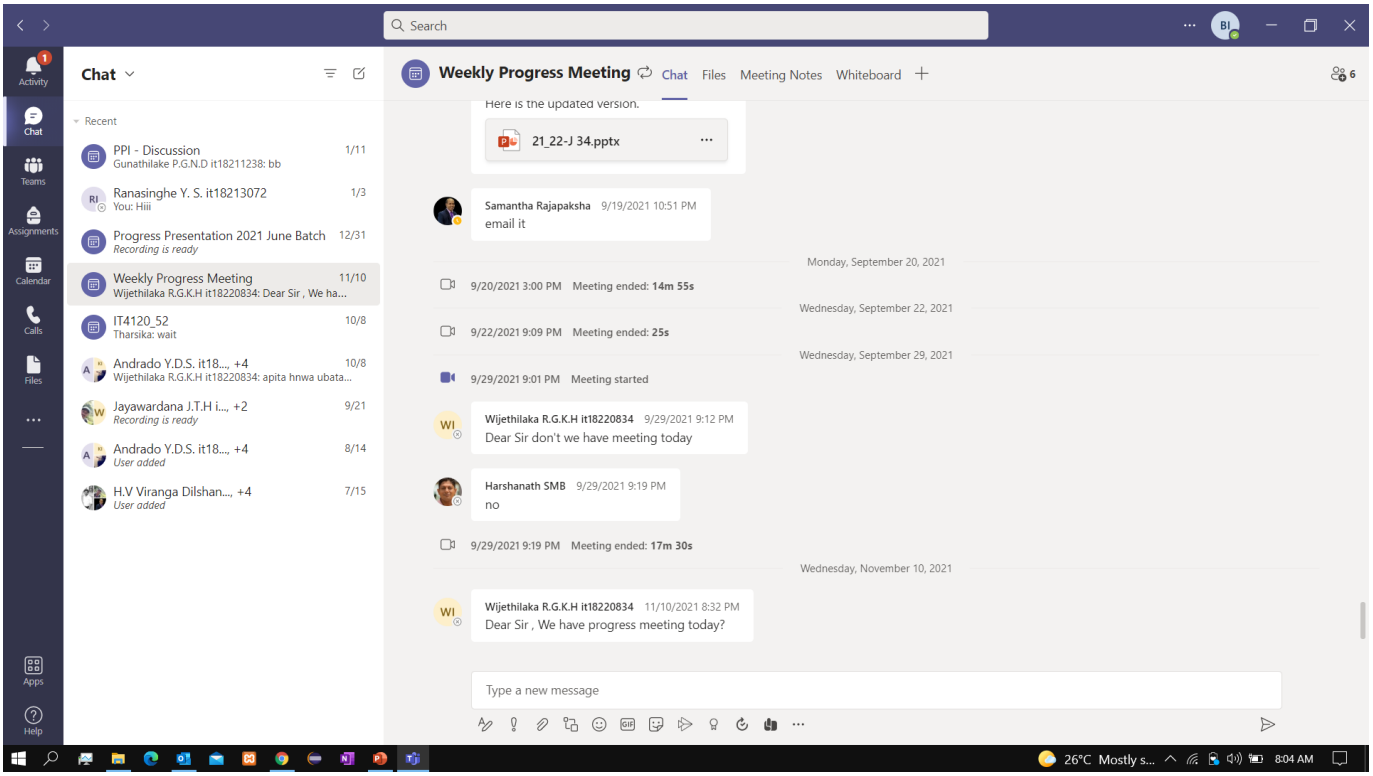
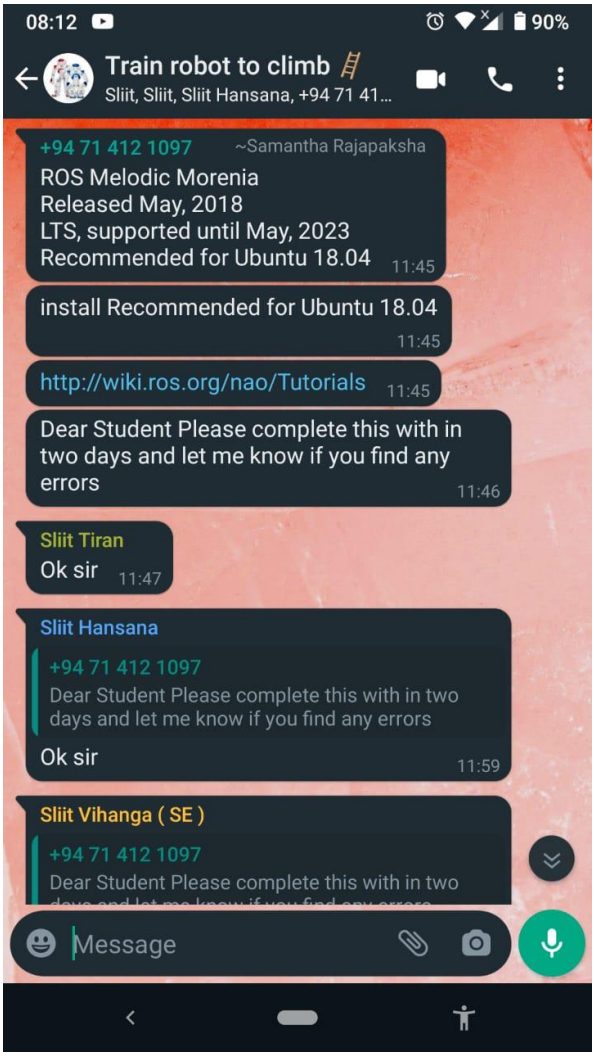
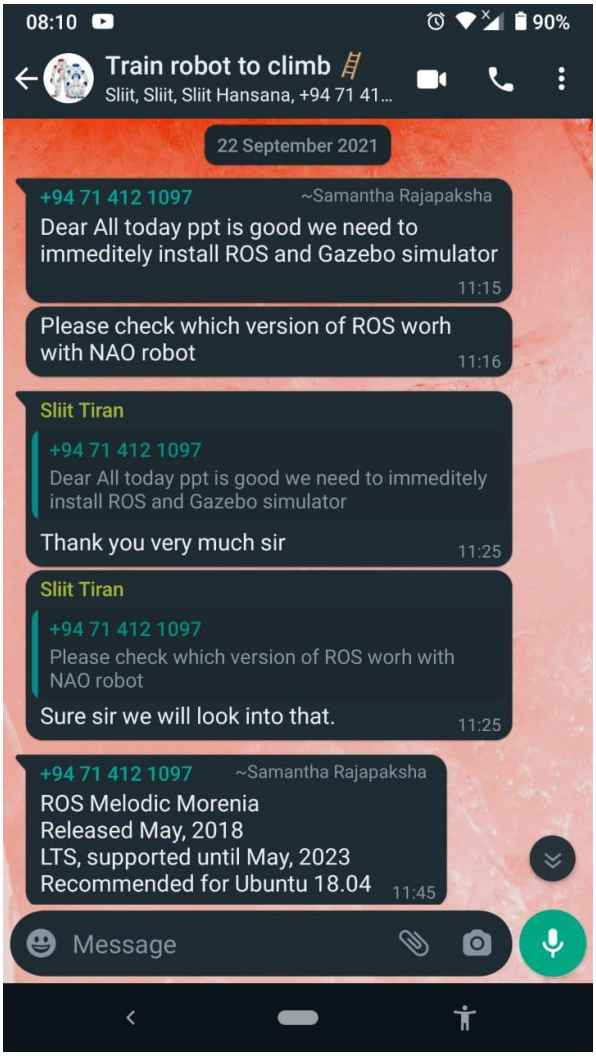
26°C Mostly s...
8:03 AM


Search
Activity
Chat
Teams
Assignments
Calendar
Calls
Files
Apps
Help
Chat
Recent
PPI - Discussion 1/11
Gunathilake P.G.N.D it18211238: bb
Ranasinghe Y. S. it18213072 1/3
You: Hiii
Progress Presentation 2021 June Batch 12/31
Recording is ready
Weekly Progress Meeting 11/10
Wijethilaka R.G.K.H it18220834: Dear Sir , We ha...
IT4120_52 10/8
Tharsika: wait
Andrado Y.D.S. it18..., +4 10/8
Wijethilaka R.G.K.H it18220834: apita hnwa ubata...
Jayawardana J.T.H i..., +2 9/21
Recording is ready
Andrado Y.D.S. it18..., +4 8/14
User added
H.V Viranga Dilshan..., +4 7/15
User added
Weekly Progress Meeting
Chat
Files
Meeting Notes
Whiteboard
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
Wijethilaka R.G.K.H it18220834 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
Wednesday, November 10, 2021
Wijethilaka R.G.K.H it18220834 11/10/2021 8:32 PM
Dear Sir , We have progress meeting today?
Type a new message
26°C Mostly s...
8:04 AM

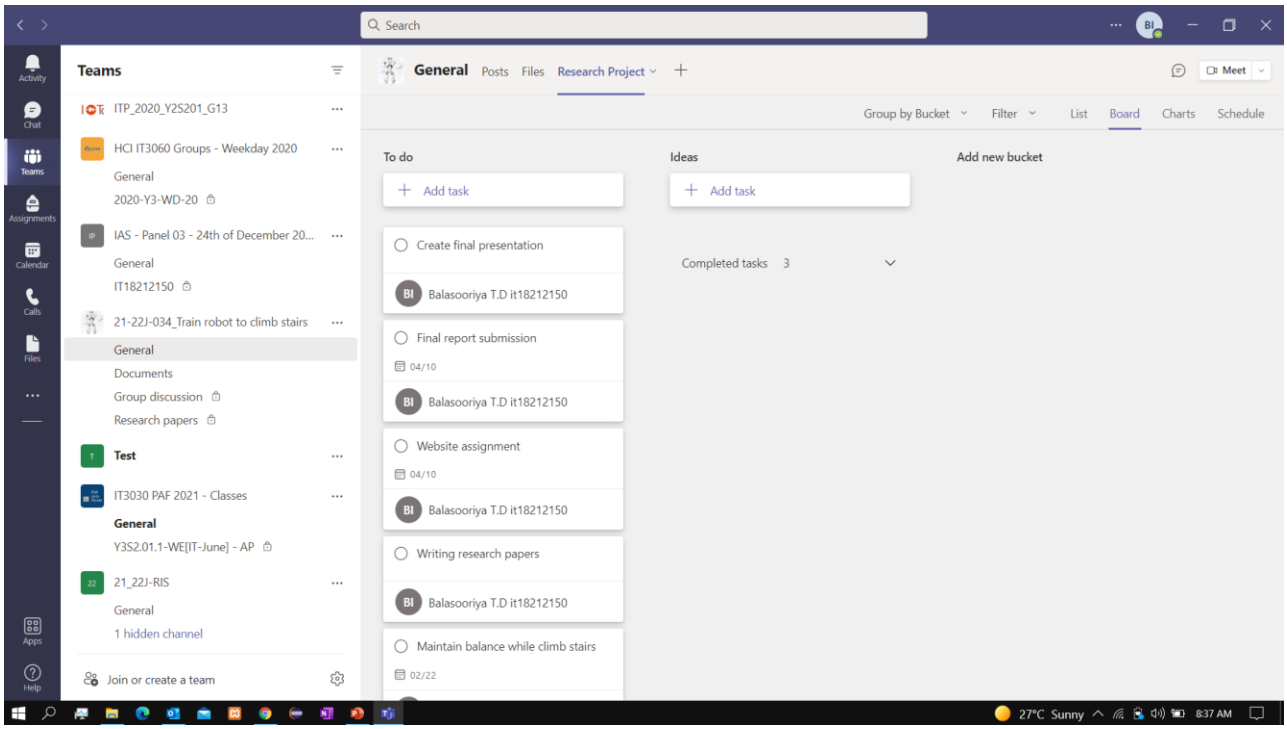
1.2 WhatsApp

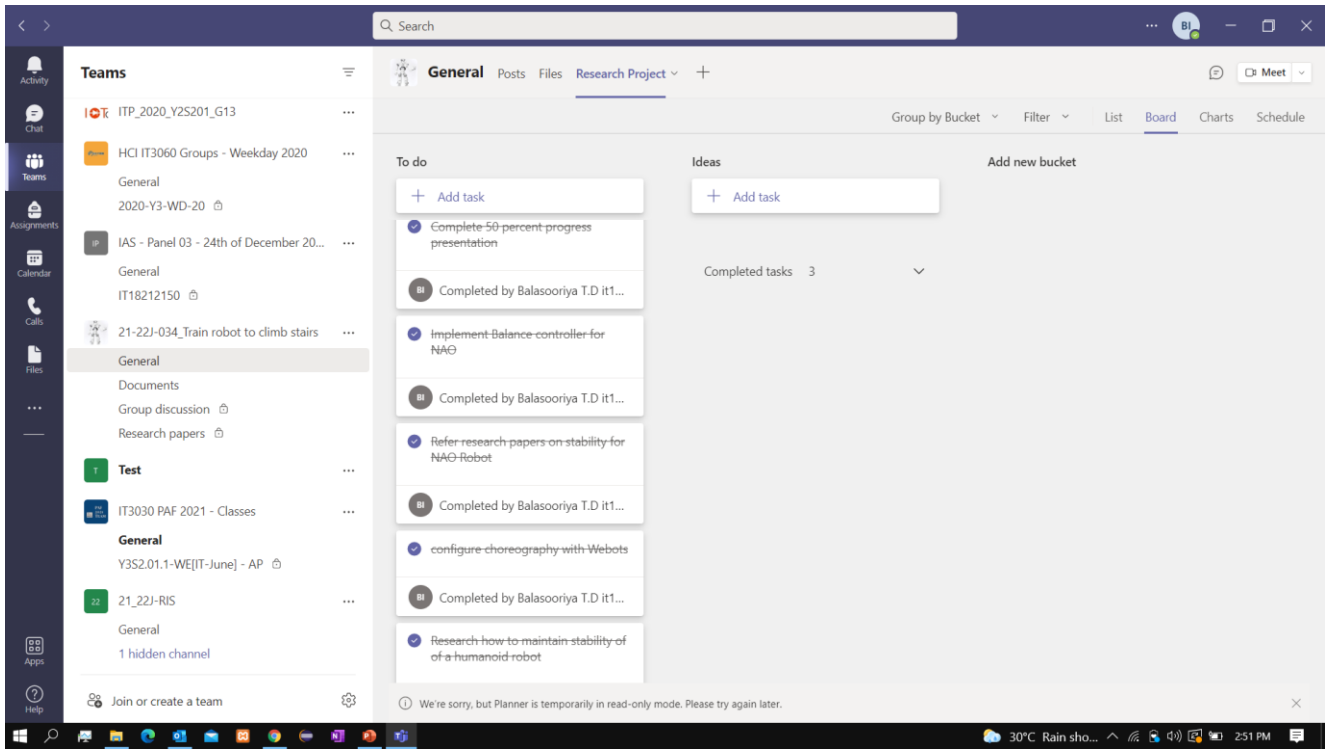

08:12
90%
Train robot to climb
Sliit, Sliit, Sliit Hansana, +94 71 41...
+94 71 412 1097 ~Samantha Rajapaksha
ROS Melodic Morenia
Released May, 2018
LTS, supported until May, 2023
Recommended for Ubuntu 18.04
11:45
install Recommended for Ubuntu 18.04
11:45
http://wiki.ros.org/nao/Tutorials
11:45
Dear Student Please complete this with in two days and let me know if you find any errors
11:46
Sliit Tiran
Ok sir
11:47
Sliit Hansana
+94 71 412 1097
Dear Student Please complete this with in two days and let me know if you find any errors
Ok sir
11:59
Sliit Vihanga (SE)
+94 71 412 1097
Dear Student Please complete this with in two
Message


08:10
90%
Train robot to climb
Sliit, Sliit, Sliit Hansana, +94 71 41...
22 September 2021
+94 71 412 1097 ~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
Sliit Tiran
+94 71 412 1097
Dear All today ppt is good we need to immeditely install ROS and Gazebo simulator
Thank you very much sir
11:25
Sliit Tiran
+94 71 412 1097
Please check which version of ROS worh with NAO robot
Sure sir we will look into that.
11:25
+94 71 412 1097 ~Samantha Rajapaksha
ROS Melodic Morenia
Released May, 2018
LTS, supported until May, 2023
Recommended for Ubuntu 18.04
11:45
Message

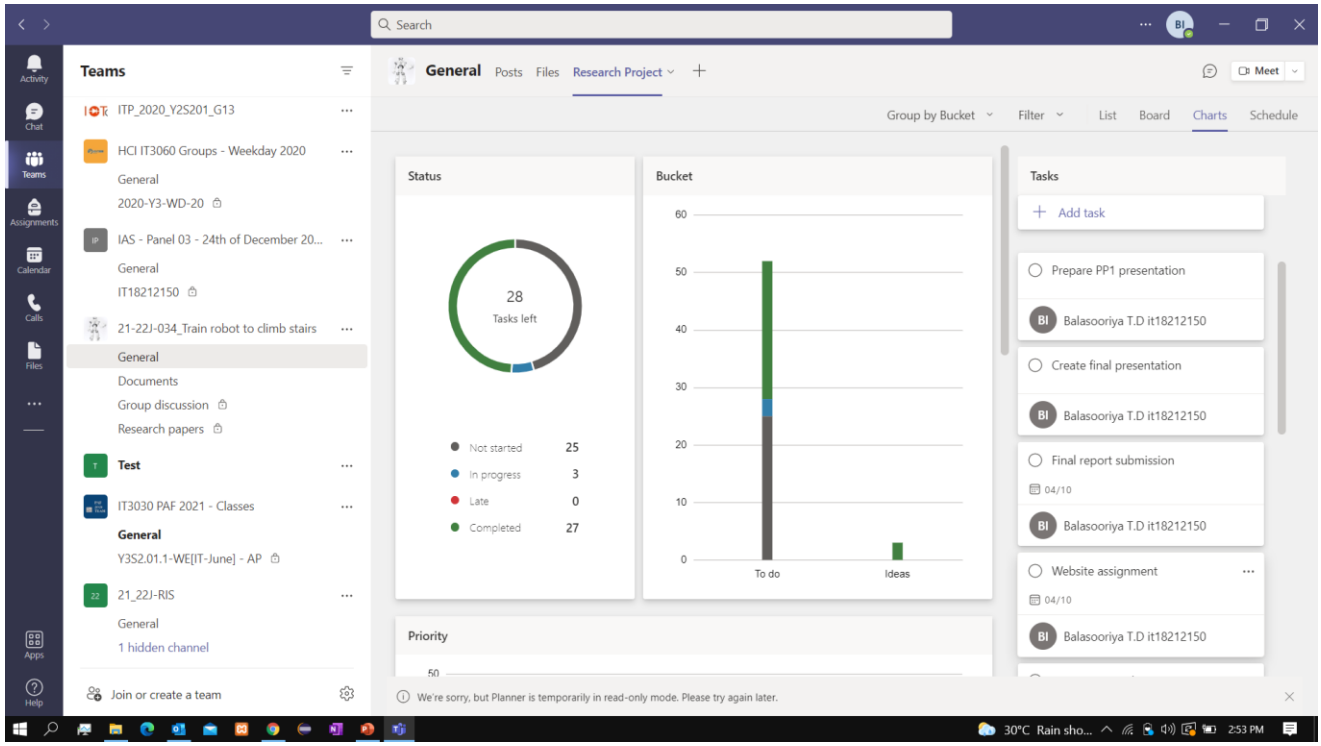
2 Project View/Gantt Chart

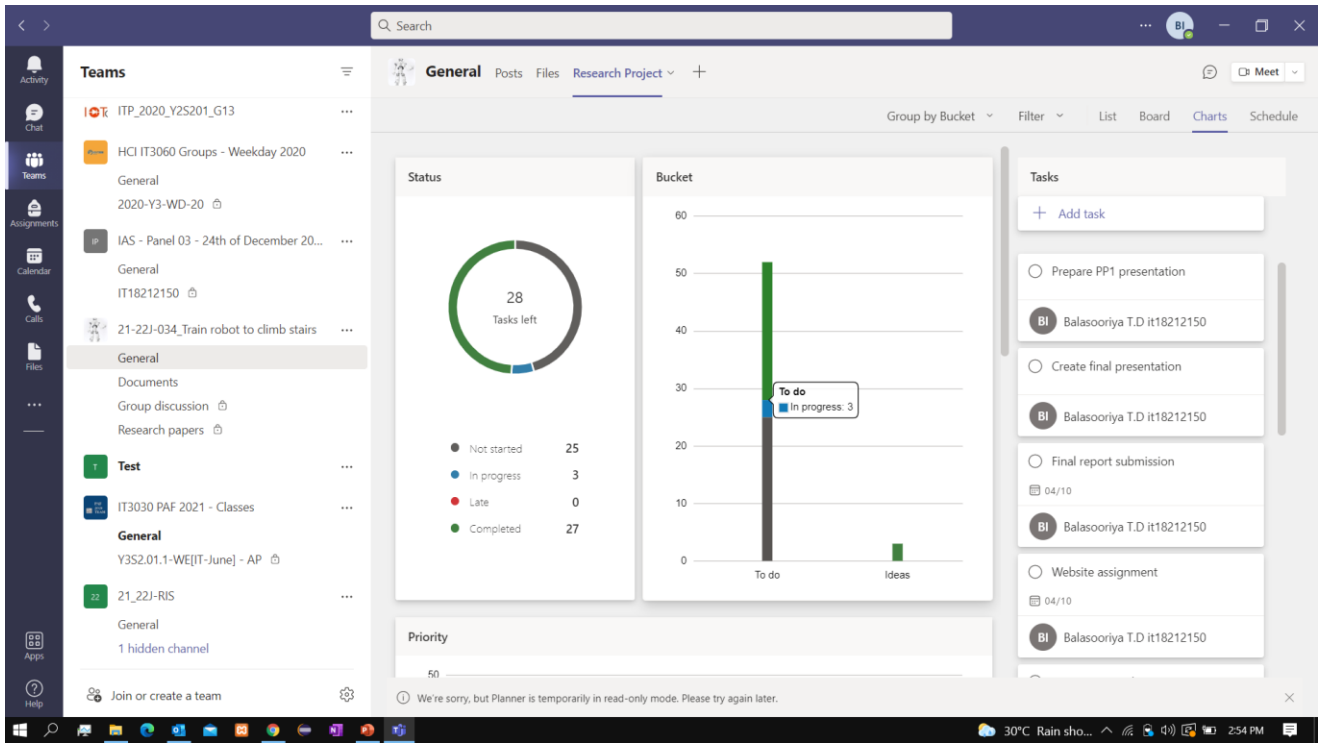
1. Work Breakdown Structure



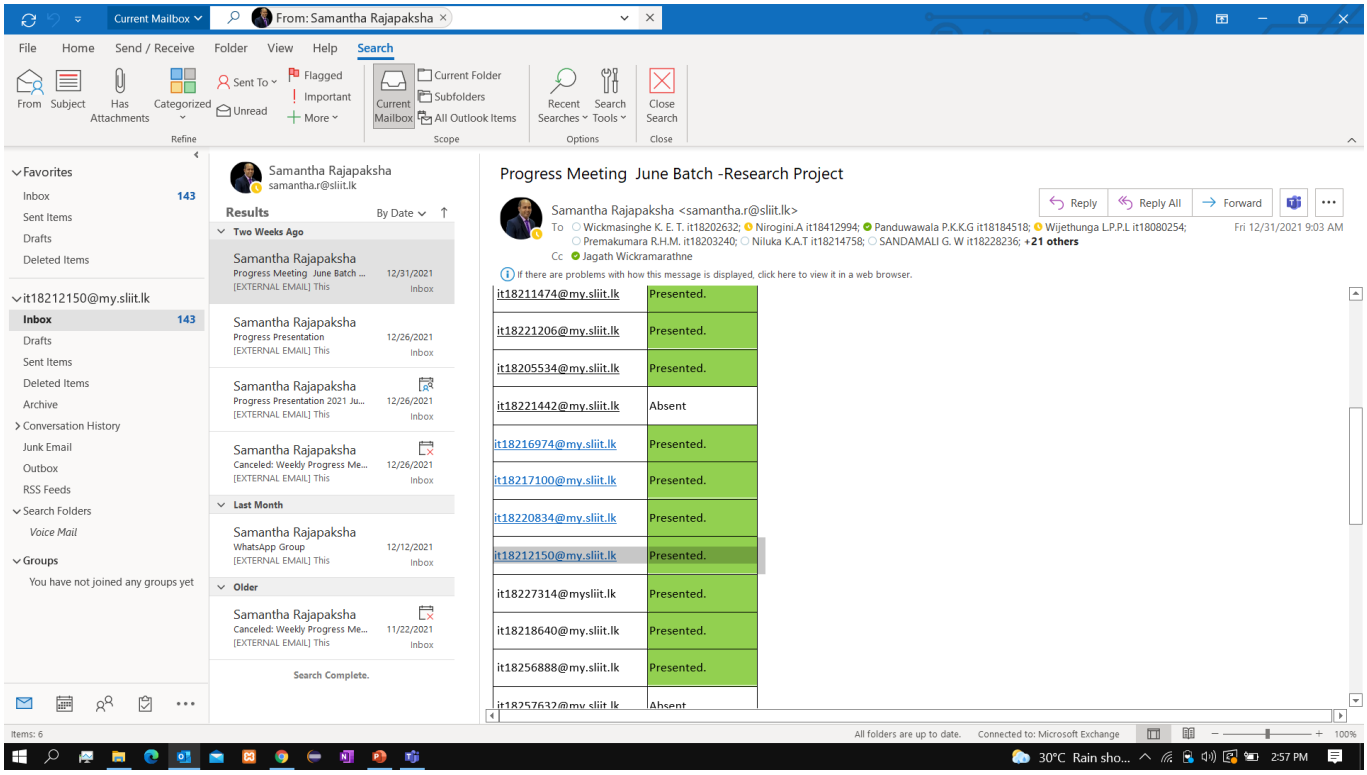

Search
Activity
Chat
Teams
Assignments
Calendar
Calls
Files
Apps
Help
Teams
ITP_2020_Y2S201_G13
HCI IT3060 Groups - Weekday 2020
General
2020-Y3-WD-20
IAS - Panel 03 - 24th of December 20...
General
IT18212150
21-22J-034_Train robot to climb stairs
General
Documents
Group discussion
Research papers
Test
IT3030 PAF 2021 - Classes
General
Y3S2.01.1-WE[IT-June] - AP
21_22J-RIS
General
1 hidden channel
Join or create a team
General
Posts
Files
Research Project
Meet
Group by Bucket
Filter
List
Board
Charts
Schedule
To do
Add task
Complete 50 percent progress presentation
Completed by Balasooriya T.D it1...
Implement Balance controller for NAO
Completed by Balasooriya T.D it1...
Refer research papers on stability for NAO Robot
Completed by Balasooriya T.D it1...
configure choreography with Webots
Completed by Balasooriya T.D it1...
Research how to maintain stability of a humanoid robot
Ideas
Add task
Completed tasks 3
Add new bucket
We're sorry, but Planner is temporarily in read-only mode. Please try again later.
30°C Rain sho...
2:51 PM

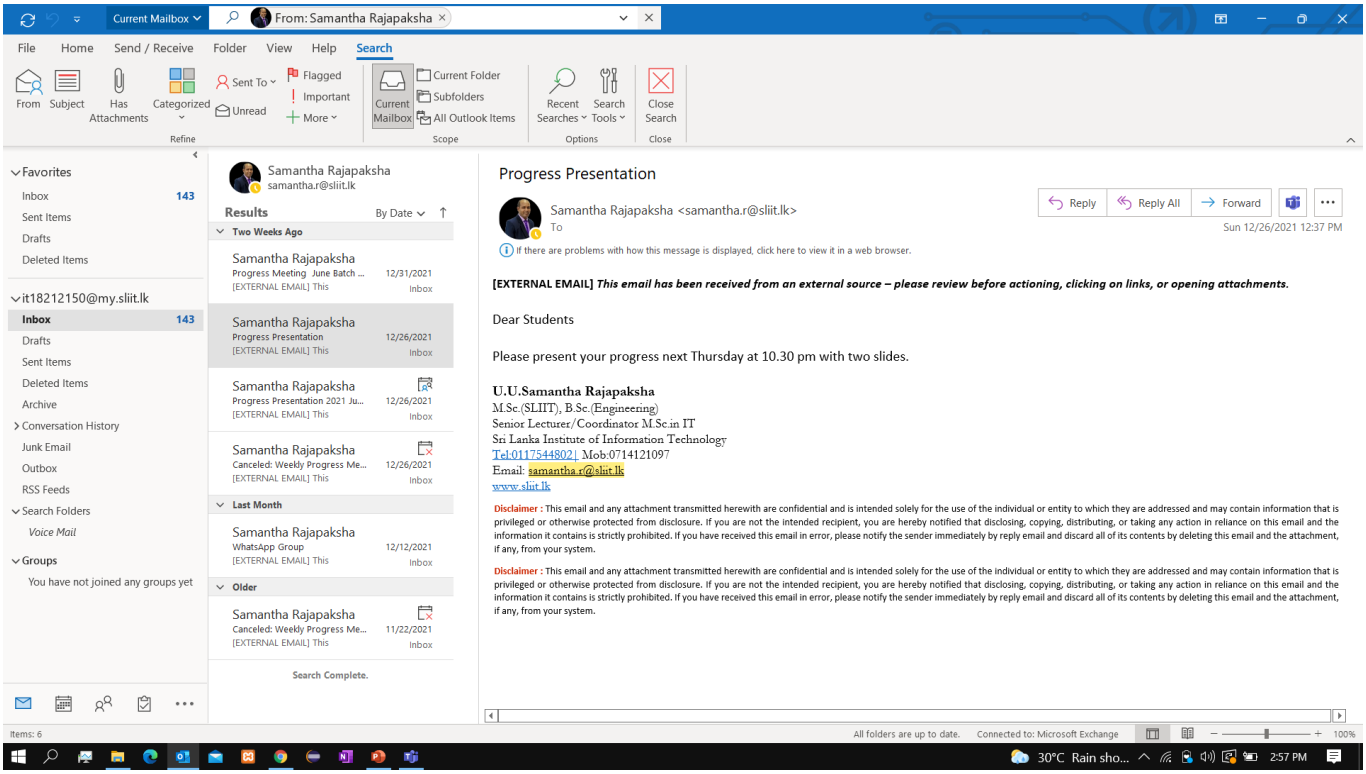
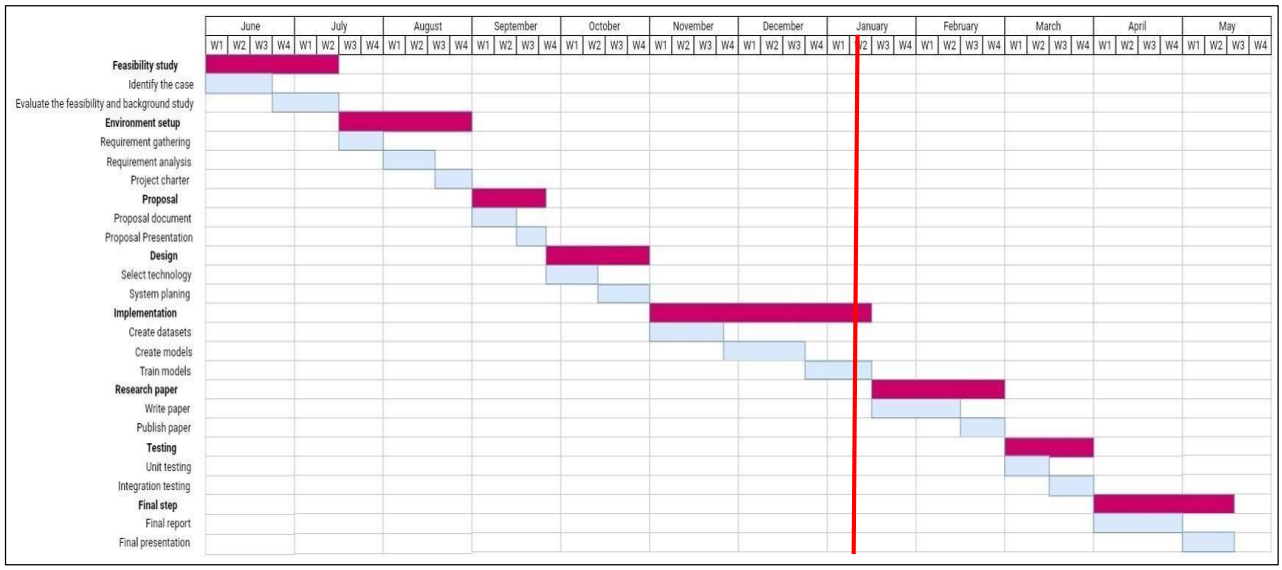
2.2 MS Teams Generate Report





2.3 Supervisor's general Progress presentation





2.3 Gantt Chart