CS2101 Effective
Communication for
Computing Professionals

Presentations



Product Demos & Pitches



Brilliant code isn't enough until:

- People understand what you're doing
- People become interested in what you're doing
- 3. People **become excited** about what you're doing

Learn to pitch your ideas and demo your product, AND YOURSELF, to your lecturers, supervisors, mentors, colleagues, bosses, clients and investors.

Product demo skills are in demand

Database/Software Engineer

IoTalents Pte Ltd - Singapore \$3,500 - \$5,000 a month - Full-time, Permanent

Job Description:

Includes product demo

- Provide pre-sales and post-sales support for software products
- Work closely with sales team to provide technical solutions
- Involve in technical clarifications
- · Perform technical presentation on products and solutions
- Subject matter expert and well verse in database products portfolio
- Conduct technical/solution presentation, demo, proof of concept to customer

Job Requirements:

- Possess a minimum qualification of a Diploma or Degree in Computer
 Engineering/ Information Technology/ Computer Science or related discipline
- · Candidates with a minimum of 2 years' experience in similar capacity preferred
- Experience in performing database migration and clustering
- Knowledge in Linux and virtualization technology will be added advantage.
- Candidates with OCA/OCP in Oracle Database will be added advantage
- Excellent communicator, self-motivated, quick learner & good working attitude
- Ability to complete assigned work in a timely & independent manner

Job Types: Full-time, Permanent

Salary: \$3,500.00 to \$5,000.00 /month



Software Engineering Team Leader

Key Requirements

- · Minimum Bachelor's degree in a concentration in software engineering
- 5+ years' experience in commercial software application development
- 2 to 5 years' experience as a technical team leader or technical lead
- Experience in software engineering principles and commercial software product development processes and methods
- Through prior work experience, has demonstrated leadership qualities and abilities
- · Project management skills a must with a strong attention to detail and follow through
- Strong verbal and written communications skills
- Strong presentation and product demonstration skills
- · Excellent understanding of the Java and Javascript programming languages
- · Experience with Spring, Hibernate, Dojo, CSS, HTML, PostgreSQL, and Oracle Database 11g
- Knowledge of database design and BI; experience with Oracle a plus
- · Proficient in SQL, with some knowledge of PL/SQL preferred
- · Some experience with tools/platforms such as Maven, Git, Bamboo, Tomcat, and Linux
- · Familiar and comfortable with the agile development methodology called Scrum



Software Engineer - Malmö, Sweden

Knowledge, Skills & Experience Preferred:

- Degree or equivalent in Computer Science, Engineering or numerate subject
- At least 2 years' experience of developing professional software applications using C++ and C#
 in the Windows .NET Environment
- Knowledge and experience of object oriented design and development
- · Logical and numerate, with complex problem-solving skills
- · Team worker with proactive approach
- · Good verbal and written communication skills
- Skilled in use of Visual Studio development Environment
- Knowledge of Windows architecture, including WPF and WCF
- Knowledge of complete software development lifecycle, preferably agile development methodology (e.g. Scrum)
- Experience of developing 3D graphical applications in OpenGL / DirectX
- · Knowledge of computational geometry and programming design pattern fundamentals
- Experience of task based, multi-site configuration management, e.g. TFS
- · User Interface and User Experience design skills
- · Presentation and product demonstration skills

Learning outcomes

By the end of the lesson, you will be able to:

- Understand what a product demo and a product pitch looks like
- Tailor your product demo and pitch to the different context, audience and purpose of your presentation
- Anticipate and prepare for questions in the Q&A session

Activity 1:

• What's the difference between a Product Demo and a Product Pitch?

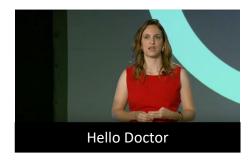
Activity 2:

• Go through the following videos/slides and discuss if it is a Product Demo or a Pitch.









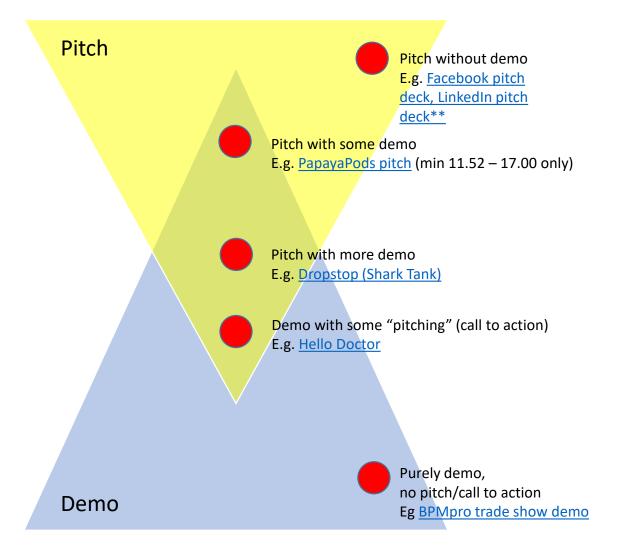


Discuss:

- What is the slide deck/ video about?
 - Is it a product pitch or a demo?
- What rhetorical appeal did it go for?



Is this a product demo or a pitch?



** NOTE:

"A pitch deck is usually a 10-20 slide presentation designed to give a short summary of your company, your business plan and your startup vision. It also serves very different purposes, from trying to get a meeting with a new investor, to presenting in front of a stage, and each one of them should follow a different structure."

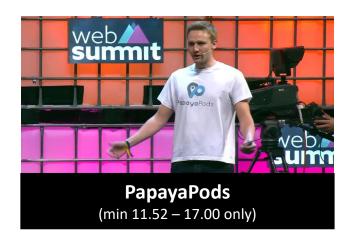
Source:

https://slidebean.com/blog/startups
-pitch-deck-examples

Activity 3:

What goes into a Product Demo and Pitch?

Let's read the transcripts for PapayaPods and Hello Doctor.









Discuss

- A. What do you think is the purpose of this presentation?
- B. Who is/are their target audience?
- C. Which elements in the Motivated Sequence Pattern are there?

Motivated Sequence pattern (MSP)

1. Attention

• e.g. a compelling story, an interesting question, a shocking statistic

2. Need

• Show how the problem affects them, demonstrate how urgent the problem is

3. Satisfaction

• Propose a solution to the problem.

4. Visualization

• Demonstrate the solution or share inspirational success stories

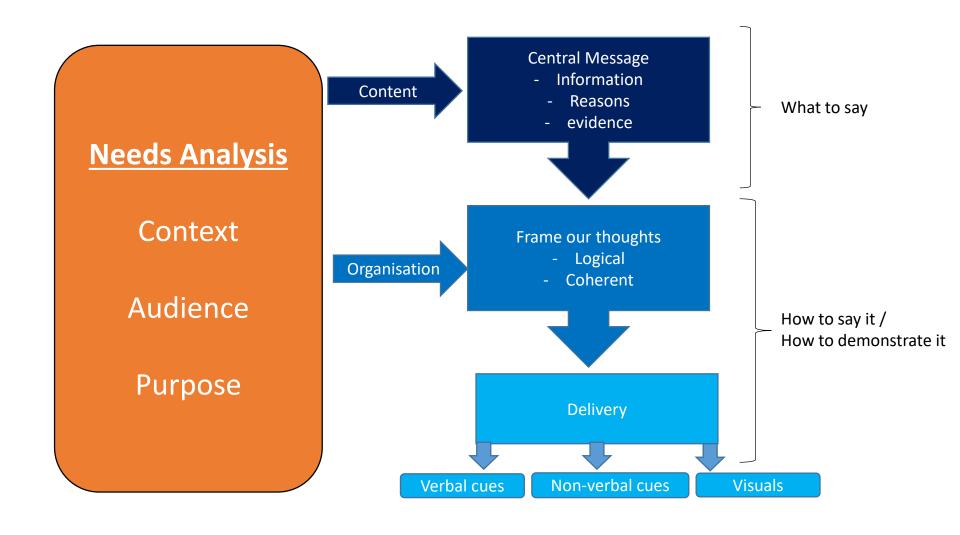
5. Action

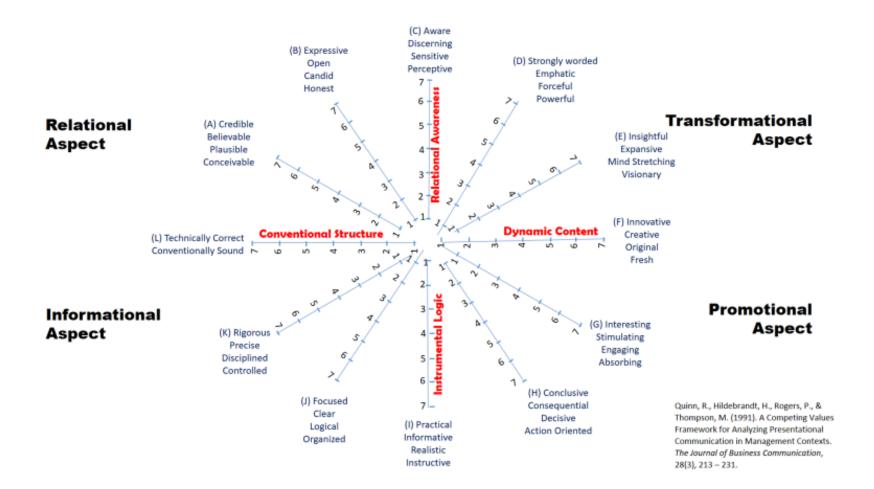
• Give a specific and tangible call to action

Activity 4

In groups, discuss what you need to do for OP2 by:

- Choosing Scenario A or B for the Product Demo
- Considering the Scenario for the Product Pitch
- Conducting a Needs Analysis for the Product Demo and Product Pitch
- Deciding on the type of content that you would like to include for each presentation





Scenario A: OP2

Product Demo

(week 12 session 1)

If your product is meant for businesses, organisations, or professionals, roleplay this scenario:

- Katrina Lee, whom you have recently met at an IT event, has called you to say that she has told her boss about your group's project, and her boss has expressed interest in your software. Katrina has asked if you would be willing to do a product demo for her boss and perhaps other supervisors at her organization. This is a small set-up that is looking to upgrade their labour-intensive administrative processes but has a very limited budget, so they are very open to student projects (trials) that fit their needs.
- Your team is excited about this opportunity to test your product with real users.

Scenario B: OP2

Product¹ Demo

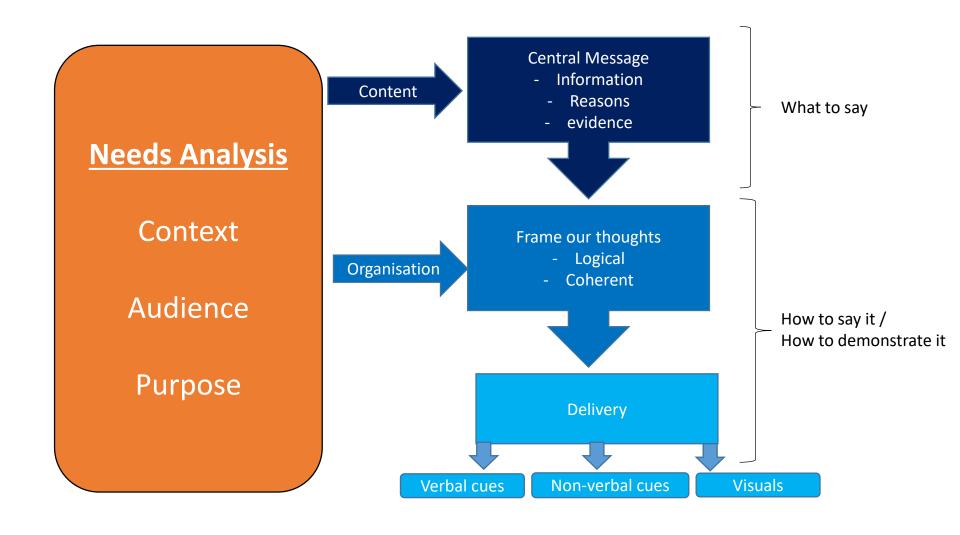
(week 12 session 1)

If your product is for students, roleplay this scenario:

- You have developed a product to address a challenge that students face. You are eager to test your product with real users. One of you either lives in a residential college or knows someone who does, and you have been given a slot to speak about your product.
- Your aim is to get the NUS community (starting with these students) to use your product.

week 12 session 2

• Your team is taking part in *Pitch It! 2021*, a student project pitching competition in NUS. Winners will be awarded with the opportunity to be mentored by NUS Enterprise to further develop, evolve, and upscale their product. Prepare a pitch to sell your idea and product to potential mentors.



ETHOS Credibility



PATHOS *Emotion*



LOGOS Logic

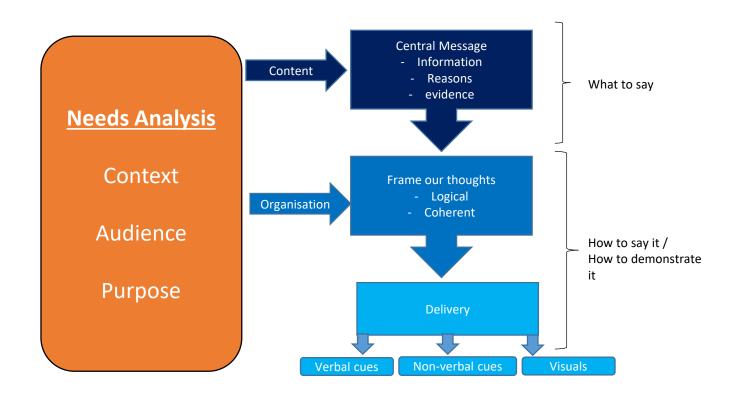


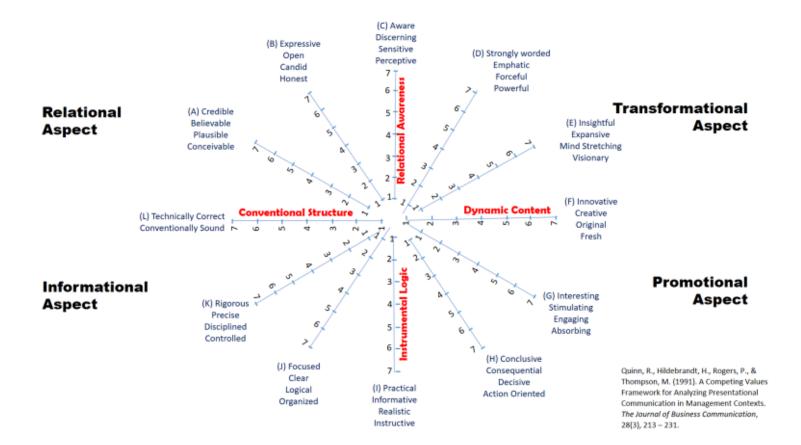
Activity 5:

Based on your group discussion,

- What do you think goes into the Product Demo?
- What do you think goes into the Product Pitch?

	Demo for potential Users	Pitching to Mentors
Purpose	To show what product has to offer. May aim to get users to try out/purchase product.	To get guidance/resources for developing a specific aspect of the product, marketing, etc.
Aim	To show what the product can do for the user, how the product improves the user's life/work and solves the user's problems	 To show the return-on-investment potential of the product. This includes info about the product's value and potential, the team, and the market opportunities. To show how the mentors can guide you in the developing or marketing of your product.
What your audience cares about	 Can your software solve my problem? Can it provide a higher return on investment (ROI) than my other options? Can it provide a higher ROI than what I'm doing now? 	 The value of your product – The pain point you're trying to solve and the broader implications of not solving the problem. The long-term potential of your product/team/business and how competitive you will be in the market. The team and the skills you have, how committed and determined you are towards the business, how quickly you can learn, make improvements and grow.





Possible Structure of a Demo

1. Introduction

- Capture attention (eg story, question, etc.)
- What is the purpose of your presentation?

2. The problem

- What is the problem/opportunity you're addressing?
- Include statistics, quotations for more persuasive power

3. The solution

- How does your product solve the problem/fill the gap?
- Demo 2-3 core features. Focus on how they <u>solve problems/bring value</u> to the user.

4. The ask/call to action

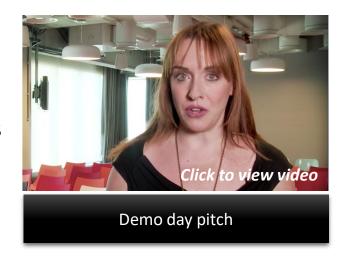
• What do you want your audience to do after viewing your demo? Eg Sign up for a free trial, purchase the product, give you feedback on how you may tailor the product better to their needs, etc.

6. Conclusion

- Reiterate main ideas and state ask/call to action
- Invite questions

Content of a Demo day Pitch

- 1. Introduce yourself
- 2. Problem
- 3. Solution
- 4. Demo
- 5. Differentiation
- 6. Monetization/Business model
- 7. Opportunity
- 8. The team
- 9. The ask
- 10. Inspiring ending



 $\underline{More\ info: https://medium.com/the-mission/the-ultimate-cheat-sheet-for-a-winning-demo-day-competition-pitch-ee3cc3f6e529}$

So how can you appeal to your audience?

ETHOS Credibility

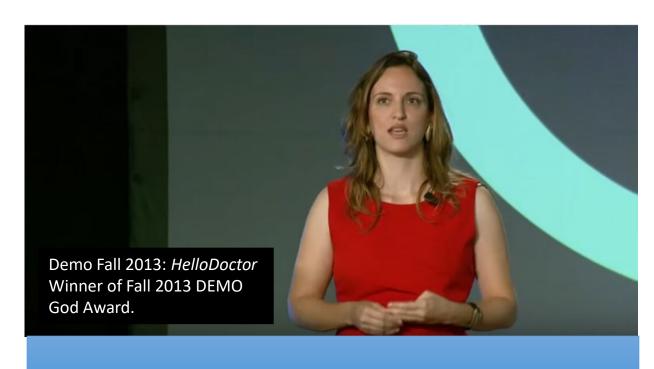


PATHOS *Emotion*

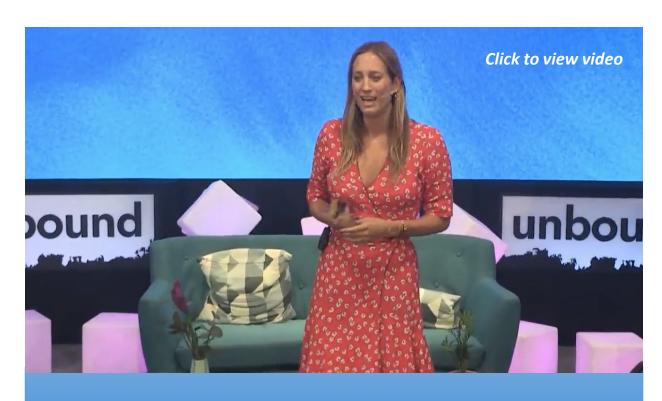


LOGOS Logic





Demo with personal stories

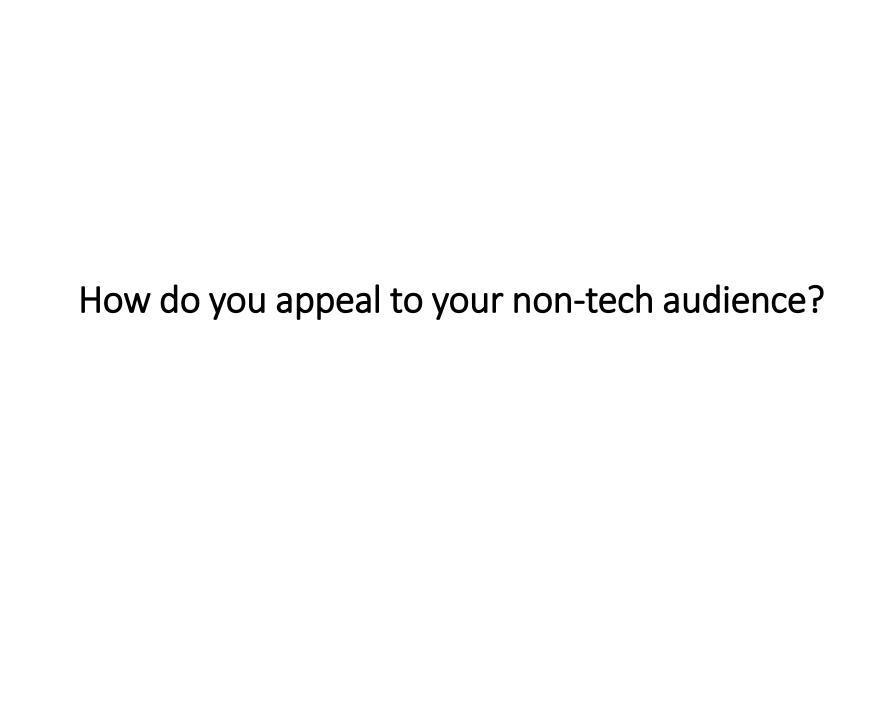


Pitch with personal story (min 11:12 to 15:30)



Demo with the help of personas





How to give a kick-a** demo



Learning points

Focus on the "why"

• and not just the "how" (i.e. all the details/ features of the product)

Understand your audience

address their specific needs

Help them understand what you are doing

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Analogies

What's Next?

1	eek 8 ssion	7- 8 Mar	Product Demos and Pitches Briefing for CA3 (20%): OP2	
	eek 8 ssion	10- 11 Mar Conveying technical information to non-technical audience		
	ssion	14- 15 Mar	Writing Progress Reports	progress report
	eek 9 ssion	17- 18 Mar	OP2 Consultations Any 2 teams @ 40-45 mins/team	

Find out more about product demos

9 Ways People Screw Up Their Product Demos

https://ryanleask.wordpress.com/2013/07/28/9-ways-people-screw-up-their-product-demos/

Create a Software Demo Presentation That Wows Prospects: 5 Mistakes to Avoid

https://www.marketingsherpa.com/article/how-to/5-mistakes-to-avoid

How to give product demos that sell

http://blog.close.io/how-to-give-product-demos-that-sell

Your Product Demo Sucks Because It's Focused on Your Product

 http://firstround.com/review/Your-Product-Demos-Suck-Because-Theyre-Focused-on-Your-Product/

How to give product demos that sell

https://www.youtube.com/watch?v= Mm q0X-R1c

Find out more about investor pitches

• The 3 most important slides in your pitch deck https://www.forbes.com/sites/alejandrocremades/2018/07/12/the-3-most-important-slides-in-your-pitch-deck/#17d2f534ddfd

• 10 Steps to Perfect Your Startup Pitch https://www.gsb.stanford.edu/insights/10-steps-perfect-your-startup-pitch

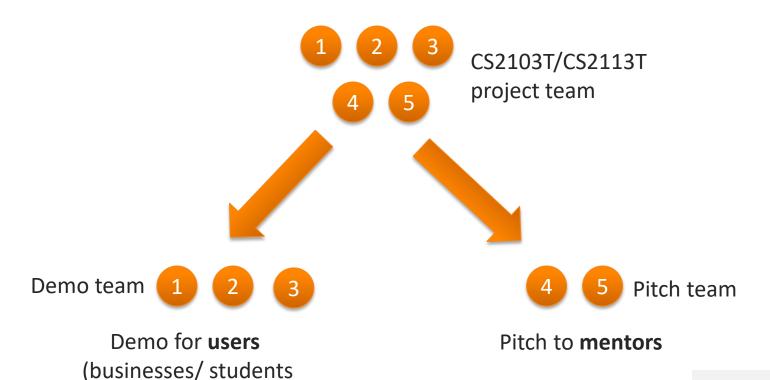
• The Difference Between Pitching an Idea vs. Pitching a Product https://www.startupgrind.com/blog/the-difference-between-pitching-an-idea-vs-pitching-a-product/

An Investor Deck Isn't a Pitch
 https://startupyard.com/investor-deck-pitch/

Demo Day: how to deliver a startup pitch deck
 https://www.youtube.com/watch?v=IO11PLB2UV8

Your CS2101 OP2 Challenge

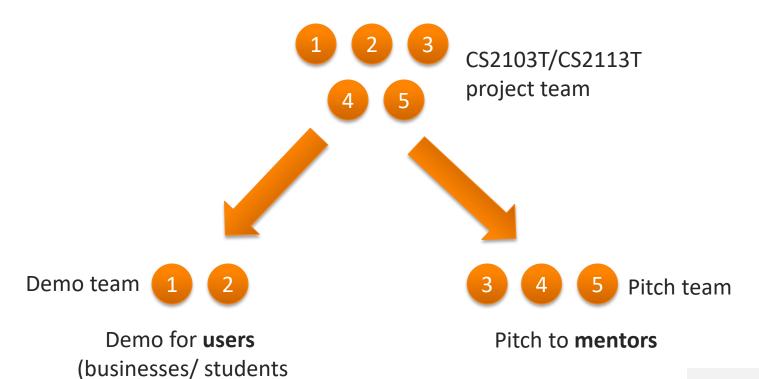
Refer to the document *OP2 Info Pack* on LumiNUS.



3 mins per pax 5-10 mins Q&A

Your CS2101 OP2 Challenge

Refer to the document *OP2 Info Pack* on LumiNUS.



3 mins per pax 5-10 mins Q&A

Your CS2103T/ CS2113T Demo

https://nus-cs2103-ay2021s2.github.io/website/schedule/week13/project.html

https://nus-cs2113-ay2021s2.github.io/website/schedule/week13/project.html

4 👺 Submit the demo video



Admin → TP → Deliverables → Demo ★★★



- Record a demo of all the product features, in a reasonable order.
 - You may choose to screen record each feature and tie it up (see the "Suggested tools" below for options), OR
 - o Schedule + record a zoom meeting within the team, where you share your screens and do the demo.
- The quality of the demo will not affect marks as long as it serves the purpose (i.e., demonstrates the product features). Hence, don't waste too much time on creating the video.
- Audio explanations are strongly encouraged (but not compulsory) -- alternatively, you can switch between slides and
 the app to give additional explanations.
- Annotations and other enhancements to the video are optional (those will not earn any extra marks).
- All members taking part in the demo video is encouraged but not compulsory.
- **File name:** [TEAM_ID][product Name].mp4 e.g.[CS2103-T09-2][Contacts Plus].mp4 (other video formats are acceptable but use a format that works on all major OS'es).
- File size: Recommended to keep below 200MB. You can use a low resolution as long as the video is in usable quality.
- Submission: Submit to LumiNUS (different folder).
- Deadline: 2 days after the main deadline
- Suggested tools:
 - Ink2Go: You can use this to record your screen and annotate if necessary. Here are some instructions from NUS
 CIT to help you get started.
 - o Handbrake: A free/open-source tool to help convert videos to MP4.



• Strictly 18 minutes for a 5-person team, 15 minutes for a 4-person team, 21 minutes for a 6-person team.

Demo Target audience

Assume you are giving a demo to a higher-level manager of your company, to brief him/her on the current
capabilities of the product. This is the first time they are seeing the new product you developed. The actual audience
are the evaluators (the team supervisor and another tutor).

Delilo Scope

- Start by giving an overview of the product so that the evaluators get a sense of the full picture early. Include the following:
 - What is it? e.g., FooBar is a product to ensure the user takes frequent standing-breaks while working.
 - Who is it for? e.g., It is for someone who works at a PC, prefers typing, and wants to avoid prolonged periods of sitting.
 - How does it help? Give an overview of how the product's features help to solve the target problem for the target user

Here is an example:

Hi, welcome to the demo of our product FooBar. It is a product to ensure the user takes frequent standing-breaks while working.

It is for someone who works at a PC, prefers typing, and wants to avoid prolonged periods of sitting.

The user first sets the parameters such as frequency and targets, and then enters a command to record the start of the sitting time, ... The app shows the length of the sitting periods, and alerts the user if ...

- There is no need to introduce team members or explain who did what. Reason: to save time.
- Present the features in a reasonable order: Organize the demo to present a cohesive picture of the product as a
 whole, presented in a logical order.
- No need to cover design/implementation details as the manager is not interested in those details.

Demo Structure

- Demo the product using the same executable you submitted
- Use a sufficient amount of <u>realistic</u> demo data. e.g at least 20 data items. Trying to demo a product using just 1-2

 sample data greater a had impression.

Demo Tips

Plan the demo to be in sync with the impression you want to create. For example, if you are trying to convince
that the product is easy to use, show the easiest way to perform a task before you show the full command with all the
bells and whistles.

1 Unacceptable Aspect 6 Exemplary 5 Accomplished 4 Proficient 3 Developing 2 Emerging Content is extremely Content is very Content is persuasive, Content is somewhat Content 20% persuasive, engaging, persuasive, engaging, engaging, and credible. engaging and credible; Content is somewhat Content is not and credible. The and credible. The The speaker displays it attempts to be engaging but is not persuasive, engaging, speaker uses an some understanding of persuasive by using and credible. speaker uses a highly persuasive and effective mix of effective mix of one/some rhetorical credible. rhetorical appeals rhetorical appeals rhetorical appeals (ethos, pathos, and appeals (ethos, pathos, (ethos, pathos, and (ethos, pathos, and logos) to achieve its and logos). logos) to achieve its logos) to achieve its purpose. purpose. purpose. The presenters The presenters The presenters The presenters The presenters The presenters demonstrate no demonstrate very demonstrate strong demonstrate some demonstrate some demonstrate little strong audience audience awareness audience awareness audience awareness audience awareness audience awareness. awareness and and addresses and addresses but does not address and does not address addresses audience's audience's audience's audience's audience's expectations, concerns expectations, concerns expectations, concerns expectations, concerns expectations, concerns and biases expertly. and biases well. and biases and biases sufficiently. and biases sufficiently. There are fresh or There are relevant There are attempts at There is little attempt There are some fresh insights with There are some deep insights into the or useful insights into providing some at providing relevant appropriate examples, topic. There are wellthe topic. There are relevant examples, examples, appropriate examples, explanations, support, chosen examples, well-chosen examples, explanations, support, explanations, support, explanations, support, explanations, support, or elaborations. or elaborations. or elaborations. or elaborations. explanations, support, or elaborations. or elaborations. The presentation is The presentation is The presentation is not The presentation is not Structure 10% The presentation is The presentation is organised to achieve organised to achieve organised to achieve its somewhat organised organised to achieve organised to achieve its its purpose very purpose effectively. its purpose. to achieve its purpose. its purpose well. purpose. effectively. The organisation is The organisation is not The organisation is not somewhat coherent coherent or logical coherent and logical. It is extremely It is very coherent and It is coherent and and logical. though transitions are coherent and logical. logical. logical. used between ideas. There are no attempts There are clear and There are clear and There are transitions There are some at transitions between successful transitions successful transitions transitions between between ideas. ideas. between ideas. between ideas. ideas.

Question and Answer 20%	The speaker addresses audience concerns or biases expertly. The responses demonstrate full knowledge and understanding of the topic. The responses are very clear, concise, complete and courteous.	The speaker addresses audience concerns or biases well. The responses demonstrate knowledge and understanding of the topic. The responses are clear, concise, complete and courteous.	The speaker addresses some audience concerns or biases. The responses demonstrate some knowledge and understanding of the topic. The responses are somewhat clear, concise, complete and/or courteous	The speaker attempts to address audience concerns or biases but may not have understood them well. The responses demonstrate some knowledge and understanding of the topic. The responses are not always clear, concise, complete and/or courteous.	The speaker does not attempt to address audience concerns or biases. The responses do not demonstrate much knowledge and understanding of the topic. The responses are not clear, concise, complete and/or courteous	The speaker does not address audience concerns or biases. The responses do not demonstrate knowledge and understanding of the topic. The responses are not clear, concise complete and courteous.
Delivery Voice 20%	The speaker is always natural and fluent, and does not hesitate or use pauses, or fillers excessively. The voice is varied and used to engage and sustain the audience's interest throughout very effectively. The speaker pronounces and enunciates clearly all the time. The speaker always uses language and style appropriate for the context, audience and purpose.	The speaker is generally natural and fluent, and does not hesitate or use pauses, or fillers excessively. The voice is quite varied and used to engage and sustain the audience's interest (e.g., stress, pauses). The speaker pronounces and enunciates clearly in most instances. The speaker generally uses language and style appropriate for the context, audience and purpose.	The speaker is mostly natural and fluent, and does not hesitate or use pauses, or fillers excessively. The voice is somewhat varied and used to engage and sustain the audience's interest (e.g., stress, pauses). The speaker pronounces and enunciates clearly in some instances. The speaker mostly uses language and style appropriate for the context, audience and purpose.	The speaker is sometimes natural and fluent but may hesitate or use pauses, or fillers. The voice is not often varied and does not always engage and sustain the audience's interest (e.g., stress, pauses). The speaker may have some pronunciation or enunciation issues. The speaker does not use language and style appropriate for the context, audience and purpose.	The speaker is not natural or fluent, and may hesitate or use pauses, or fillers. The voice is not varied and does not engage and sustain the audience's interest (e.g., stress, pauses). The speaker has some pronunciation or enunciation issues. The speaker does not use language and style appropriate for the context, audience and purpose.	The speaker is not natural and fluent, and hesitates or use pauses, or fillers. The voice is not varied and does not engage and sustain the audience's interest (e.g., stress, pauses). The speaker has some pronunciation or enunciation issues. The speaker does not use language and style appropriate for the context, audience and purpose.

Delivery Non-verbal communication 10%	Non-verbal cues always complement and enhance the presentation very effectively. They are natural and used meaningfully to persuade and engage the audience throughout the presentation (e.g. facial expressions, eye contact, posture, gestures). The speaker is dressed appropriately.	Non-verbal cues generally complement and enhance the presentation well. They are natural and used meaningfully to persuade and engage the audience for most parts of the presentation (e.g. facial expressions, eye contact, posture, gestures) The speaker is dressed appropriately.	Non-verbal cues mostly complement the presentation but may not enhance it. They are somewhat natural but may not aid in engaging or persuading the audience (e.g. facial expressions, eye contact, posture, gestures). The speaker is dressed appropriately.	Non-verbal cues complement parts of the presentation but does not enhance it. There are some unnatural cues (e.g. facial expressions, eye contact, posture, gestures) The speaker is dressed appropriately.	Non-verbal cues do not complement the presentation. They are mostly unnatural but there is little attempt to engage the audience during the presentation (e.g. facial expressions, eye contact, posture, gestures) The speaker is not dressed appropriately.	Non-verbal cues do not complement the presentation. They are unnatural and there is no attempt to engage the audience during the presentation (e.g. facial expressions, eye contact, posture, gestures) The speaker is not dressed appropriately.
Delivery Visual aids 10%	Visual aids complement and enhance the presentation very effectively. The visuals are relevant, clear, precise and of high quality.	Visual aids complement and enhance the presentation well. The visuals are appropriate, clear, error-free and of good quality.	Visual aids complement the presentation but does not enhance it. The visuals are appropriate, clear, and of sound quality.	Visual aids complement parts of the presentation but does not enhance it. The visuals are appropriate and clear but there may be some errors.	Visual aids do not complement the presentation. The visuals are not always appropriate and clear. There may be multiple errors.	Visual aids do not complement the presentation. The visuals are not appropriate or have many errors.

Teamwork 10%	The presentation is extremely unified and coordinated (i.e., content, structure, delivery – visuals, attire, and presentation style).	The presentation is very unified and coordinated (i.e., content, structure, delivery – visuals, attire, and presentation style).	The presentation is unified and coordinated (i.e., content, structure, delivery – visuals, attire, and presentation style).	The presentation is somewhat unified and coordinated (i.e., content, structure, delivery – visuals, attire, and presentation style).	The presentation is not unified and has little coordination (i.e., content, structure, delivery – visuals, attire, and presentation style).	The presentation is not unified and has no coordination (i.e., content, structure, delivery – visuals, attire, and presentation style).
	The team has clearly rehearsed together and demonstrates very smooth transitions during the presentation.	The team has clearly rehearsed together and demonstrates mostly smooth transitions.	The team has rehearsed together and demonstrates some smooth transitions.	The team may have rehearsed together but the transitions are not always smooth. The speaker shows	The team does not demonstrate that they have rehearsed together, and most transitions are not smooth.	The team does not have any smooth transitions.
	The speaker handles the Q&A very well as a team by supporting one another and presenting a united front.	The speaker handles the Q&A well as a team by supporting each other and presenting a united front.	The speaker handles the Q&A as a team with some support for each other and mostly presents a united front.	little consideration for the team during the Q&A (e.g., dominates, withdraws) and does not present a united front.	The speaker shows no consideration for the team during the Q&A (e.g., dominates, withdraws) and does not present a united front.	The speaker shows no consideration for the team during the Q&A (e.g., dominates, withdraws) and does not present a united front.