

# THIRD SPRINT GROUP 15

- Petagna Mario
- Muro Lorenzo
- Riccardi Mario
- Lodato Gabriele

- SPRINT BACKLOG
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- SPRINT REVIEW
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- FINAL DESIGN OF THE PROJECT
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# SPRINT BACKLOG/DONE

**3° Sprint Backlog**

Module operation  
0/9 P 1 1 13 MP

Argument of a complex number  
0/9 P 1 1 MP

Power operation  
0/9 P 3 1 MR

Exponential operation  
0/9 P 3 1 LM

Sine operation  
0/9 P 3 1 GL

Cosine operation  
0/9 P 3 1 MP

Logarithm operation  
0/9 P 3 1 MP

Tangent operation  
0/9 P 3 1 GL

Save sets of variable values  
0/9 P 5 1 LM MR

Modify operation  
0/9 P 3 1 LM MR

Restore variables  
0/9 P 3 1 MR

Save variables  
0/9 P 3 1 LM

Delete user Operation  
0/9 P 3 1 GL MP

- All user stories have been completed.
- The GUI now is complete with all the functionalities that have been implemented.
- As the team finished the work early, all the other user stories were added to the sprint backlog.
- Estimated Velocity: 37 SP
- Effective Velocity: 62 SP

Solve parameterized expressions and equations  
6 dic - 9 dic 9/9 P 13 3 19 LM MR

Delete user Operation  
6 dic - 9 dic 9/9 P 3 1 GL MP

Exponential operation  
6 dic - 9 dic 9/9 P 3 1 LM

Module operation  
6 dic - 9 dic 9/9 P 1 1 MP

Sine operation  
6 dic - 9 dic 9/9 P 3 1 GL

Power operation  
6 dic - 9 dic 9/9 P 3 1 MR

Arc sine operation  
9/9 P 3 1 MP

Arc cosine operation  
9/9 P 3 1 MP

Save variables  
6 dic - 9 dic 9/9 P 3 1 LM

Argument of a complex number  
6 dic - 9 dic 9/9 P 1 1 MP

Cosine operation  
6 dic - 9 dic 9/9 P 3 1 MP

Logarithm operation  
6 dic - 9 dic 9/9 P 3 1 MP

Modify operation  
6 dic - 9 dic 9/9 P 3 1 LM MR

Define Operation  
8/8 P 3 3 LM

Restore variables  
6 dic - 9 dic 9/9 P 3 1 MR

Save sets of variable values  
6 dic - 9 dic 9/9 P 5 1 LM MR

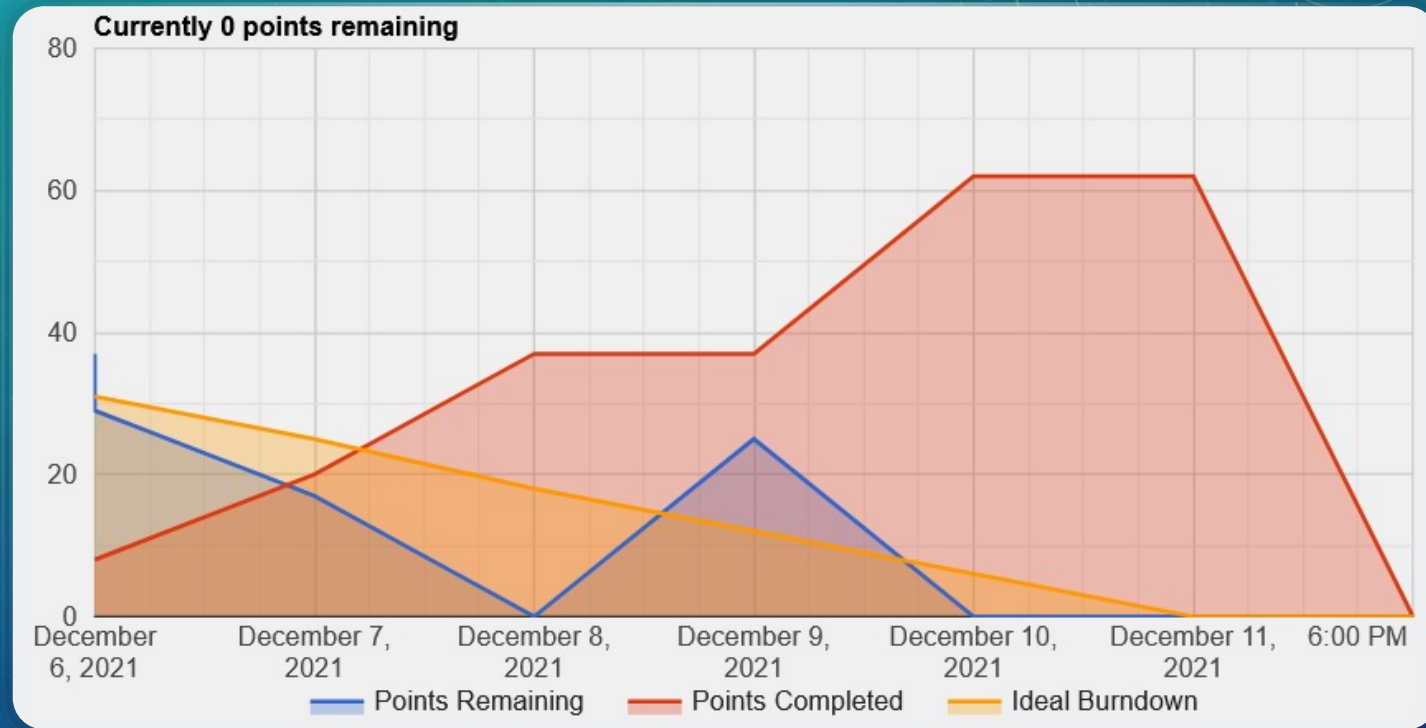
Tangent operation  
6 dic - 9 dic 9/9 P 3 1 GL

Arc tangent operation  
6 dic - 9 dic 9/9 P 3 1 MP



# THIRD SPRINT BURNDOWN CHART

- Burndown Chart Story Point / Days.
- The progress curve has always been under ideal.
- The team having finished earlier planned work, retrieved additional user stories from the product backlog, as shown by the spiky rise in the graph.
- The work was even finished two days before the end of the sprint, as the team wanted to focus on presenting the work.



# THIRD SPRINT RELEASE: FINAL GUI

File Paramerized Operations Exit

Example number:  $(a + bi)$  or  $(a - bi)$   
Example definition operation: operator operator operator ....

Clear Insert value

☐ Operation/Value

Execute Operation

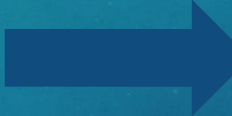
Name Operation

Insert Operation Retrieve Operation

Modify Operation Delete Operation

STACK					VAR		VALUE
Nessun contenuto nella tabella					Nessun contenuto nella tabella		

+	-	x	÷	√		
Clear	Duplicate	Drop	Swap	Over		
>x	<x	+x	-x	Inverse		
Mod	Arg	Exp	Log	Pow		
	Sin	Cos	Tan			
	Arcsin	Arccos	Arctan			

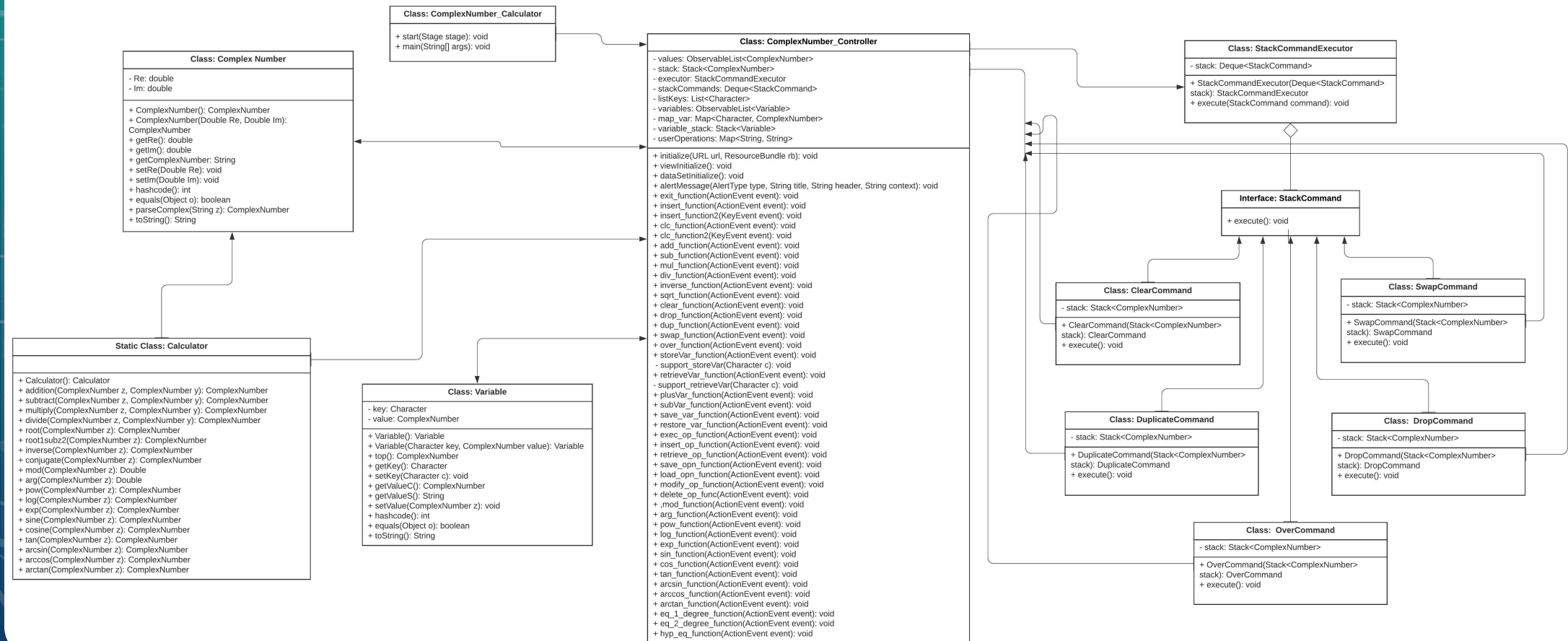
- 
- The sprint goal has been achieved as all tasks and more have been completed.
  - Since there are too many functionalities, the example will be shown in the following slides.



# FINAL DESIGN OF THE PROJECT

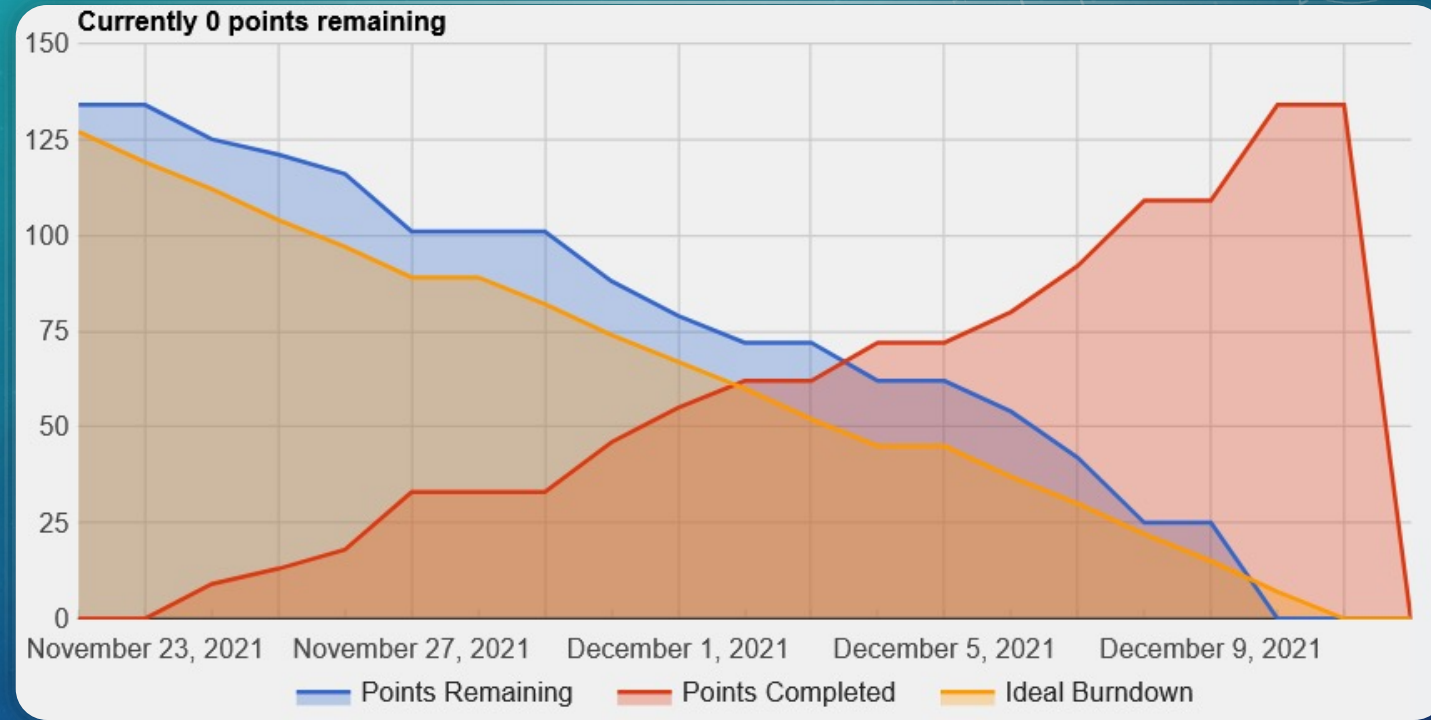
## UML DIAGRAM OF CLASSES

### UML DIAGRAM



# FINAL BURNDOWN CHART

- Burndown Chart Story Point / Days of the entire project.
- The progress curve, for the duration of the work, is a bit above ideal due to the accumulated delay in the first sprint.
- It wasn't until the last sprint that the team was able to get below the ideal curve, where the speed was greatest.
- As you can see from the graph, the work has been completely finished.
- Although all user stories were completed, the team did not have time to fix some bugs related to the GUI and optimize features related to user-defined operations. This work has not been quantified in terms of story points.





# APPLICATION EXECUTION EXAMPLE

- Here is an example of the use of calculator.

Complex Number Calculator

File Parameterized Operations Exit

Example number: (a + bi) or (a - bi)      Example definition operation: operator operator operator ....

Clear      Insert value

☐ Operation/Value      Name Operation

Execute Operation      Retrieve Operation

Insert Operation      Delete Operation

Modify Operation      Delete Operation

STACK

Nessun contenuto nella tabella

VAR	VALUE
a	0.0+0.0i
b	0.0+0.0i
c	0.0+0.0i
d	0.0+0.0i
e	0.0+0.0i
f	0.0+0.0i
g	0.0+0.0i
h	0.0+0.0i
i	0.0+0.0i
j	0.0+0.0i
k	0.0+0.0i
l	0.0+0.0i
m	0.0+0.0i
n	0.0+0.0i

+	-	x	÷	√
Clear	Duplicate	Drop	Swap	Over
>x	<x	+x	-x	Inverse
Mod	Arg	Exp	Log	Pow
	Sin	Cos	Tan	
	Arcsin	Arccos	Arctan	



*THANKS FOR THE ATTENTION!*