

# SPRINT D LAPR4 PROJECT

Client presentation

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# Presentation content

- ◆ Results achieved
- ◆ Critical analysis of results and teamwork
- ◆ Evidence of applying the software engineering /development process
- ◆ Deployment scenario of the solution
- ◆ Quality of the final product
- ◆ Suggestions of improvement
- ◆ Students' self-assessments
- ◆ Other theoretical aspects

# Results achieved



All requested features  
implemented and functional



Extra features also  
implemented

# Critical analysis of results and teamwork

## Strengths

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Documentation

Communication  
between team  
members

Project structure

**S**

## Weaknesses

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Inline code  
documentation

**W**

## Opportunities

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Acquisition of  
knowledge

Great demand for  
products of this  
type

**O**

## Threats

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Prices inflation  
caused by products  
scarcity

**T**

# Evidence of applying the software engineering /development process

Creating User Stories  
in Jira

Using bitbucket

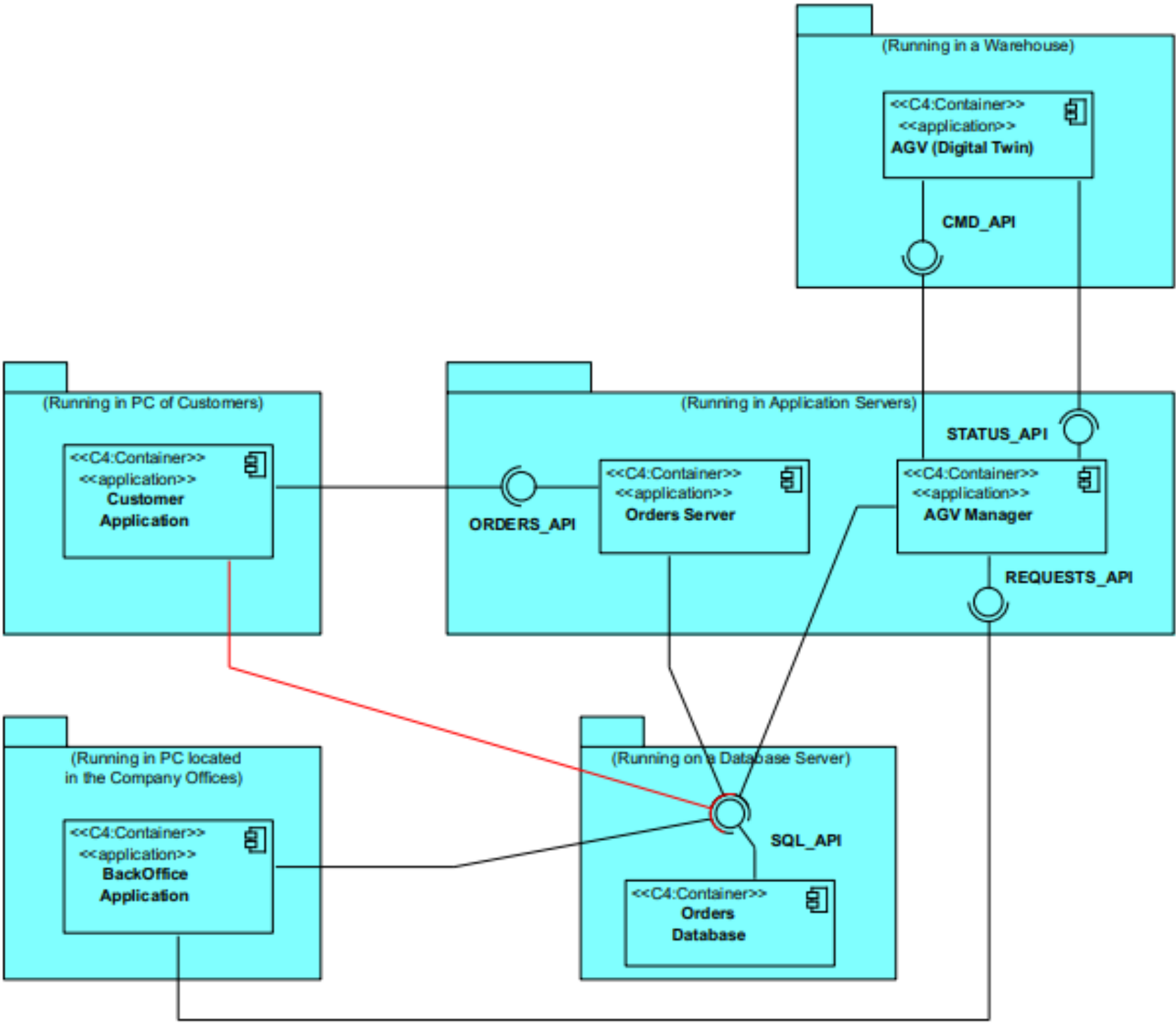
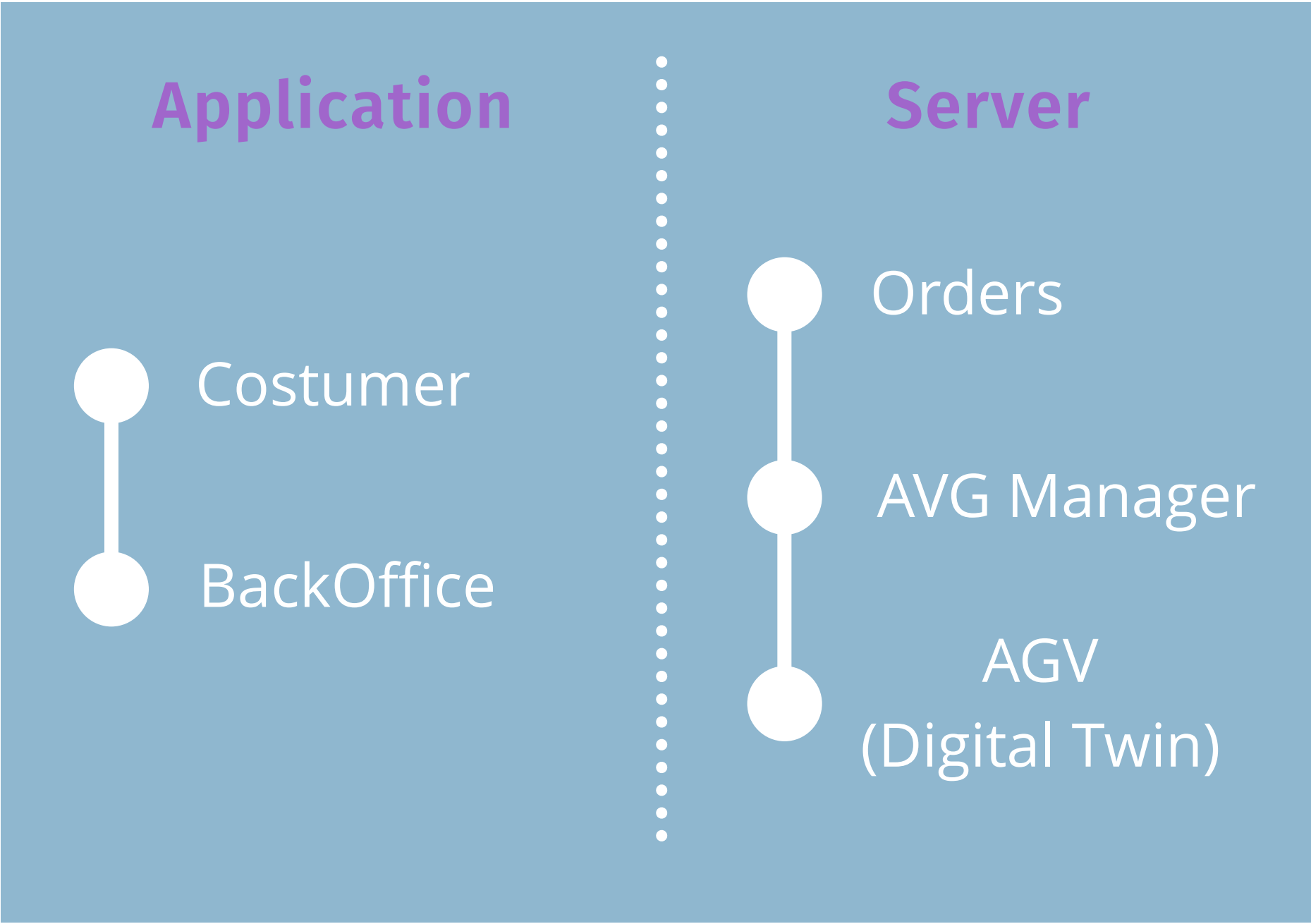
Unitary  
commits

User Stories  
documentation

# Evidence of applying the software engineering /development process

Title ▾	T	P	Status	Votes	Assignee
#40: Adding new features to shopping cart	⬆	⬆	CLOSED		Pedro Fernandes
#39: Certificates	✓	⬆	CLOSED		Tiago Gonçalves
#38: 1902: I want the communications made through the SPOMS2022 protocol to be secured/protected.	✓	⬇	CLOSED		Tiago Gonçalves
#37: 1502: As Customer, I want to view/check the status of my open orders.	✓	⬇	CLOSED		Pedro Maia Marti
#36: 2006: I want the communications made through the SPOMS2022 protocol to be secured/protected.	✓	⬇	CLOSED		Eduardo Moreira
#35: 1006: I want to access a list of orders that had been dispatched for customer delivery and be able to update some of those orders (delivered).	✓	⬇	CLOSED		Pedro Fernandes
#34: 9002: I want the team (software supplier) to prepare a presentation.	✓	⬆	CLOSED		Pedro Maia Marti
#33: 5100: I want that the team to develop and integrate the others components/parts of the AGV digital twin.	✓	⬆	CLOSED		Eduardo Moreira
#32: 5004: I want the output communications made through the SPOMS2022 protocol to be secured/protected.	✓	⬆	CLOSED		Tiago Gonçalves
#31: 5003: I want the input communication made through the SPOMS2022 protocol to be secured/protected.	✓	⬆	CLOSED		Eduardo Moreira
#30: 4003: I want the communications made through the SPOMS2022 protocol to be secured/protected.	✓	⬆	CLOSED		Tiago Gonçalves
#29: 3501: I want to get the list of questionnaires that the system is asking me to answer and be able to answer any of those questionnaires.	✓	⬆	CLOSED		Pedro Maia Marti
#28: 3002: I want to get a statistical report regarding a previously set up questionnaire	✓	⬆	CLOSED		Pedro Fernandes
#10: 1900: System being initialized (bootstrap) with some information	✓	⬆	CLOSED		Eduardo Moreira
#2: Planning	✓	⬆	CLOSED		Pedro Maia Marti

# Deployment scenario of the solution



# Quality of the final product





# Suggestions of improvement

## Graphical UI

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**Although not in the project requirements, we thought it would be a good improvement to develop a graphical interface.**

## Inline commentaries

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**As mentioned before, we think that one of the aspects that we could improve would be the inline comments of the code.**

# Students' self-assessment

## Technical skills

		ANTLR	Java	Servers communication	JPA	Documentation	Tests
Tiago Marques	Before	1	4	1	1	4	4
	After	4	4	5	5	4	5
Eduardo Silva	Before	1	4	1	1	4	4
	After	4	4	5	5	4	5
Pedro Alves	Before	1	4	1	1	4	4
	After	5	4	4	5	4	5
Pedro Fernandes	Before	1	4	1	1	4	4
	After	4	4	4	5	5	5

# Students' self-assessment

## Behavioral skills

		Team work	Conflict management	Leadership	Autonomy	Self-criticism
Tiago Marques	Before	4	4	3	4	4
	After	5	5	4	5	4
Eduardo Silva	Before	4	4	3	4	4
	After	5	5	4	5	4
Pedro Alves	Before	4	4	3	3	4
	After	5	5	4	5	4
Pedro Fernandes	Before	4	4	3	3	4
	After	5	5	4	5	4

# LAPR4 *skills*



## Rotative leadership

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**Each sprint (from 3 to 3 weeks),  
we changed our leader. We  
adopted this method so each  
member of the team could  
improve his leadership skills.**

# Leadership focus



## Transformational

Personal attention to each member of the team

Encourages pride, earns respect and confidence in team members

Raises team expectations



Transactional



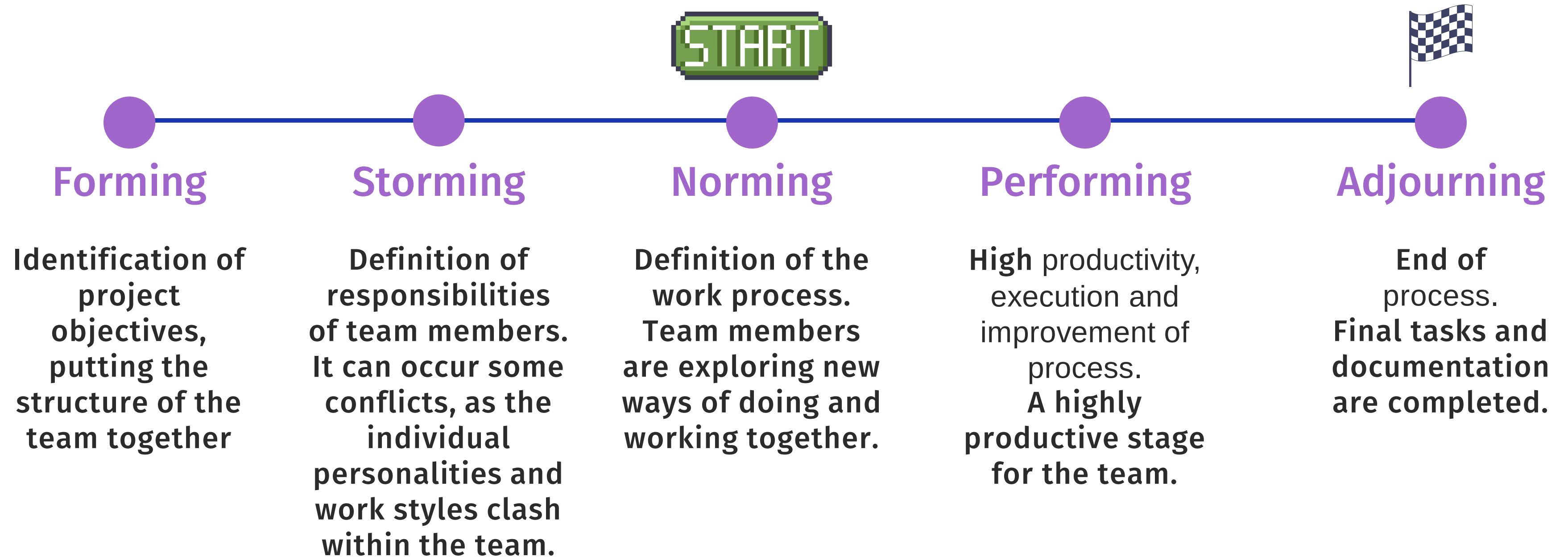
Liberal

# Leadership style

**Democratic leadership encourages employees to participate and to give suggestions and opinions. In addition, the democratic leader helps the team develop solutions, is very participative, listens, and offers tips and ideas when necessary. He is concerned with the execution of the work and the quality of life and satisfaction of the team.**


**Democratic leadership**

# Tuckman stages of team development





# Reflection



With this project, we were all able to develop teamwork skills, and we were all able to acquire knowledge of software development and new technologies.

# Thank you!

The end

