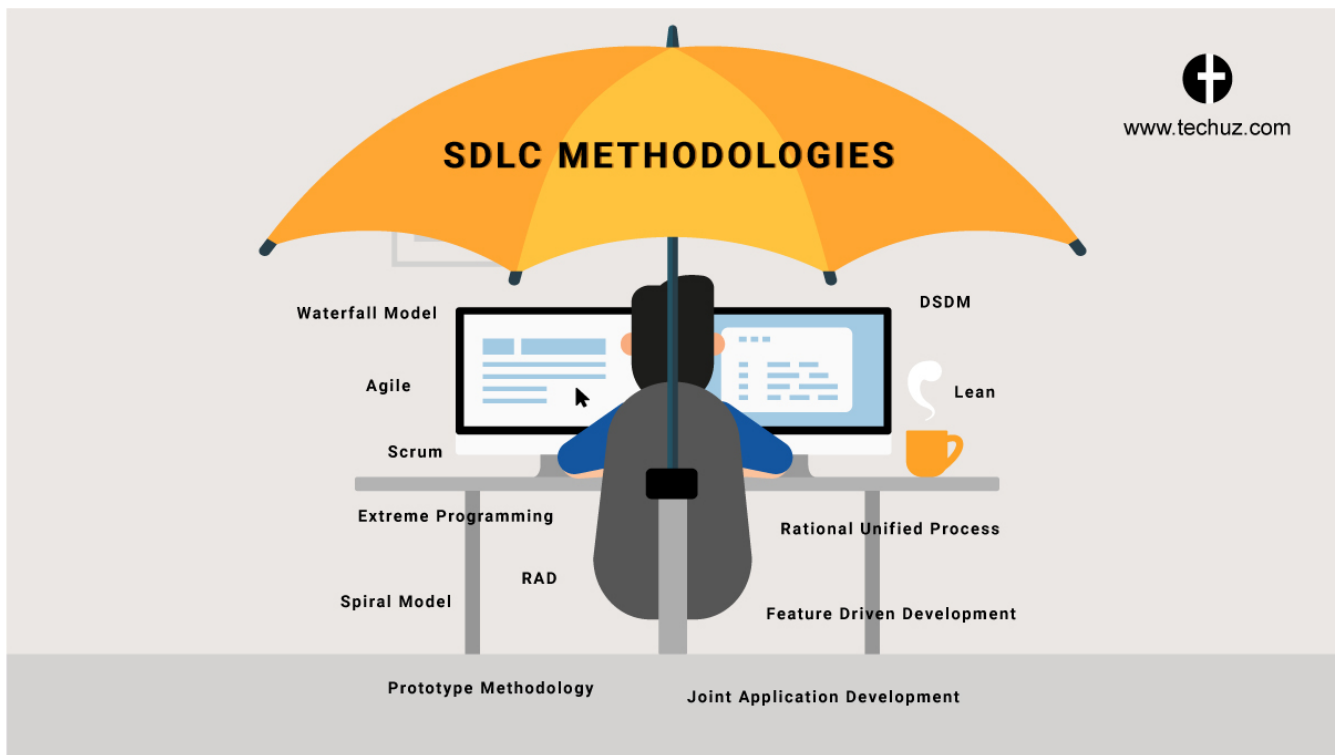# Methodologies. Pros and Cons

Task 1

Description

Homework:

Learn about Waterfall and what are the main advantages and disadvantages of it.

Create a table of pros and cons of each of the studied software development methodologies on your own.

Waterfall

Advantages:

1. Adapt to shifting teams
2. Forces structure organisation
3. Allows for early design changes
4. Suited for milestone-focused development

Disadvantages:

1. Nonadaptive Design Constraints
2. Ignores Mid-Process User/Client Feedback
3. Delayed Testing Period

Table of pros and cons of Development Methodologies

Methodologies	Pros	Cons
Waterfall	1. Adapt to shifting teams 2. Forces structure organisation 3. Allows for early design changes 4. Suited for milestone-focused development	1. Nonadaptive Design Constraints 2. Ignores Mid-Process User/Client Feedback 3. Delayed Testing Period
Agile	1. Stakeholder engagement 2. Transparency 3. Early and predictable delivery 4. Predictable code and schedule 5. Allows for change 6. Focused on business value 7. Focused on users 8. Improves quality	1. The hight degree of customer 2. Additional sprints (beyond those initially planned) may be needed, adding to the project cost 3. The iterative nature of Agile development may lead to a frequent refactoring 4. Demanding to choice platforms of communication
Extrem programming	1. Close contact with the customer 2. No unnecessary programming work. Stable software through ongoing testing. 3. Avoiding mistakes with pair programming Relatively high costs 4. No overtime, teams work at their own pace. Changes may be made in a short time. 5. The code is clear and understandable at all times	1. Additional work 2. Customer must participate in the processes 3. Relatively large time investment 4. Relatively hight costs 5. Requires version management 6. Requires self-discipline to practice