

	Set-2
· What are the	prenceples behand the agele manifesto?
Customer Statesfaction	changing frequent Promoting Recuirement Delivery collaboration (2) (3)
motivated individuals	Face to face Malntaln a measure Communication constant pace progress 6
	onecal semplecety self-organized contenuous ellance Teams improvements (9)
-> Agelo production of instead of	catesfaction. nest priority es to satesfy the customer by aluable software early and contenuously. motes releasing minimum viable products (MVPs gather real customer feedback and improve to over time. If walteng for a fully developed product, to ship early, iterating on features based on tees, ensuring the product fets the market



Changeng	Requirements:
0 0	process embrace change, even late en development,
CONTROL OF THE PARTY OF THE PAR	n offer competetere advantages.
	detennal methods, changing requerements can be
	and desnaptère, but agre welcomes these shefts,
	plans and preorettes based on new enformation
	omer Feedback.
3. Frequen	t Deleverses.
	encourages delivering working software frequently.
weth sho	rter cycles (usually 2-4 weeks), to keep the
momenta	m going and gather feedback.
-> These	frequent releases ensure that customers continuously
see prog	rese and can enteract weth the product
4. Promot	eng collaboration.
	y communecation between developers and business
	dors es essenteal.
-> Agel	e emphasizes the emportance of having cross-function
-al tea	ms where buseness people and developers collaborate,
	alegnment on goals and clear understanding of
the rec	jul rements.
	· · · · · · · · · · · · · · · · · · ·
p. Mottva	ted enderduals: foundation of agele development is empowered,



motivated teams. - By providing a supportive environment and giving endeviduals the autonomy to decede how to tackle challenges, agele fosters ennovation and accountabelety. 6. Face to Face communication. - S Direct, real-teme communication is the most effectent method for exchanging within a development team. -> Whele remote teams often rely on vedeo conferencing tools, the core edea es to menemeze barreers leke emael or slack, which can cause delays or mesenterpretations. 7. Maentaen a constant pace. - 5 Agre preonteres working stw over extensive documentation. -> The success of a sprent or project es determened by whether the slw es functional and useful to customer, not by bow much documentation or planning has been completed. 8. Measure progress. -> Agele promotes maentalning a consestent development pace to avoid burnout. - Teams should not overextend themselves, and the workload must be balanced to ensure long-term productfulty.



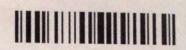
9. Technecal Excellance. - Agele encourages maentaining high technical standards or facilitate future changes and ensure quality. - F Focuseng on clean code, good desegn, and avolding technecal dept es cruclal. 10. Semplecety. -> Agele values semplecety by focuseng on the most valuable features and elemenating unnecessary work - F Teams avoid over-completating solutions and provitize work that delevers the heghest empact. 11- self organized teams. -> Agrie relees on the collective exportese of self-organizing teams, where the team members decede how best to approach work. - Sinstead of mecromanagement, the team has the autonomy to choose methods and techniques that work best for them. 12. contenuous Improvements. -s Team should frequently assess theer processes and performance to contenuously emprove. -s Through retrospectives and feedback loops, agile teams reflect on what went well, edentify areas for emprovement, and adapt their practices for better results in future Sprents.



2. Inhat do you mean by agre coftware development? Agre software development is a methodology that apples agele prenceples to the process of designing, building, testing, and delivering software. Agrie practices: 1. User storges: - small, concesse descriptions of a feature from an end-user perspective -> Example: "As a user, I want to reset my password so that I can regal acress to my account 2. Sprents or Iterations: - 5 Teme-boxed perfods (eg., 2 weeks) during which a specific set of tasks is completed. 3 Dally stand ups. -s short team meetings to discuss progress, challenges, and plans. 4. Backlog Refinement - continuous prioritization of features, bugs and tasks in the product backlog. 5. Contenuous Integrateon and contenuous Deployment colles: - s Automating the entegration, testing and deployment of code to ensure frequent, releable releases 6. Retrospectives. -s Meetings to reflect on what went well, what didn't, and how to improve in the next iteration.



Frameworks for Agele software Development.				
1. Scrum:				
- Focuses on sprents, roles C Product owner, scrum master,				
Development Team), and ceremonees C sprent planning,				
Darly standups, Reviews, and Retrospectives).				
2. Kanban.				
-> Vesualizes workflow on a board, lemetting work en				
progress (WIP) to emprove flow.				
3. Extreme Programmeng (XP):				
- > Includes practices like pair programming, test-Driven				
development (TDD), and frequent releases.				
4. Lean software Development				
- Freoritezes elemenating waste, maremizeng value, and				
optimizing the delivery pipeline.				
5. SAFE (Scaled Agele Framework).				
-> Helps larger organizations implement Agilo at				
Scale				
Benefets of Agele software dovelopment				
· Faster Teme to Market				
· Improved Quality				
· Adaptabellty				
· customer satesfaction				
. Enhanced Team collaboration.				



3. Defene Agele scrum. What are ets various roles?				
-> Scrum as an agale framework used to manage and				
execute complex projects, typecally en software development,				
but et can be applied to variety of endusmies.				
- It promotes collaborateon, flexebellety, and eteratere				
progress, with a focus on delevering high-quality products				
en a fast-paced, contenuously changing environment				
-> Schum structures work en teme-boxed Herateons called				
Sprents, typically lasting 2-4 weeks, where teams				
produce a potentially shippable product increment.				
Roles en scrum.				
1. Product owner				
Responsabellates:				
-5 The product owner es responsable for defeneng the				
product backlog and ensuring that the team es				
working on the most valuable tasks.				
-> They act as an bridge between the development team				
and the Stakeholders.				
Key Dutles.				
-s Preonteze and maintain the product Backlog.				
-> Make decessions about what to build and en				
what order				
-> communerate with stakeholders and ensure the				
development team has a clear understanding of the				



customer needs.
2. Scrum master
Responsabalates.
-> The scrum master acts as a facellitator for the scrum
team. They ensure that scrum practices are being
followed, remove abstacles that may block progress, and
help the team stay focused and emprove the progress.
Key Datres.
-s to sure the scrum process is being followed.
-> Protect the team from external destractions and
enterrupteons.
-> Faceletate scrum coremonees and ensure they are
effectere.
3. Development Team
Responsebelettes.
-> The Development team es responseble for buelding
the product encrement
Key Dutres.
-> Work together to complete tasks on the sprent Backlog.
- collaboration with the product owner to clarify user
stories and requirements.
-> Produce a potentially shippable increment by the end
of each sprint



4. What is crystal Agile Framework? -> The crystal Agole Framework es a famely of -weight and ffereble methodologies for software development that focuses on the people envolved en the process, emphasizing communication, collaboration and endevidual talents. -> It's an approach that tallors esself to the uneque needs of a project or team rather than applying a onefets-all colution. Principles. 1. Frequent Delevery. -s Regardless of the varlous factors such as team size, type of project, budget or profet, the preority of the team should be to deliver. So, to keep up with this, the team needs to frequently dellers code that has been tested and es working for real wers. 2. Reflective improvement - s its emportant to understand that there could always be room for improvement. Hence, there is a need to reflect on the performance, see what was done, how and why. 3. Osmotec communication. & Osmotto means the flow of matter organically. Applying thes cockburn believed that there was a need for colocation of teams so that information can be perceived by all members.



t. Da	N 8-1
4. rersono	I safety.
-> the pe	resonal safety aspect means that the environment
es open	and safe for all team members to communicate
theer ed	eas and thoughts without feeling like they are
redecul	ed.
5. Focus	on work
-> The	seneors or leaders on a project should set out
the oxf	confess en a clear manner. Team members should
at an	teme known what comes next and what
to be	done at the given time and focus on
of con	etantly swetching between tasks.
6. East	access to subject matter experts and usess
-c Day	planare should have a lenk to the real users of
the par	duct they create analifled people and real eyes
of the	product give valuable feedback that the developers
	work upon.
7. Toch	neral environment.
c 46.	and and announce t should be carefully equipped,
Thec c	neans that et should have tools for automated
100-101	ng, confeguration management as well as
coole	nuous entegration and deployment.
e Fo	and mestates can be identified quiety
210	at the need for humans to entervene when
walbo	or the page.
thes	es the case.



5. What es Agelo decesson-making, and how does et deffer				
from tradeteonal decession-making approaches.				
Apple Decellon makena				
- & Aprilo Decicion materia es a flexeble, eterative, and				
collaborative appropriach to marting decisions				
and effectively to dynamic environments				
rapped adoptation, continuous feedback, and				
collaboration to ensure decessions alegn with changing				
requirements and business goals.				
Aggle Decession Making	Tradeternal Deepston Markeng.			
1. It as fast and aterative	1. It es slow and structured			
process	process			
2. Adapts queckly to	2. follows a fexed plan			
changes				
3. Encourages collaboration	3. Decessons made by top			
and teamwork	management.			
4. Coptenuous feedback	4. lemeted feedback after			
and emprovement	emplementatem			
5. Uses smal-teme data for	5. Relies on past data and			
dereston-makeng	predections.			
6. Emphasizes experimentation	6. Focuses on extensive			
and learning	planning and forecasting.			
7. Resk es managed	7. Resks are edentified and			
continuously.	addressed upfront.			
U				



Agele Decesson Makeng	Tradeternal Decesson Making.
8. Preoritizes customer and	e. Prontères organizational
Stakeholder needs	heerarchy and procedures.
9. Allows decentralezed	heerarchy and procedures. 9. contralized decector -
deceepon-making	making approach
10. Works well en dynamer	10. Best susted for stable
and uncertain environmen	