0	What do you mean by agile? List agile methods and practices?
di	stoil is a philosopy and approach to project management and
	software duclopement that emphasizes floribility, colloboration
The state of the s	and automer satisfaction through iterative progess.
and and an artist	Agile practices in softwall duelopement
160	1. User Stones
	· small, concise dy emptions of a feature from an end
	auxi penpectin.
to design the second	2. Sprints or Iterations
1 1	· Time bound periods during which a specific set of tasks
and the second	is completed
-	3. Daily Stand-Ups
	3. Daily Stand-UPS - Short tum meetings to discuss progress, challenges and plans
-	
	H. Backlog Refinement
	· Continuary prioritization of features, thugs and tark in
	the product backlog.
	5. Continuous Integration and Continuous Deployement (CIICD)
	. dutometing the integration, testing and deployement of
	code to ensure fuquent, reliable releases.
	6. Retrapective.
	· nuctings to reflect on what went well, what didn't
	and how to improve in the next ilevation.
	agile Methods
	1. Iterative and Incremental Frameworks.
	There methods emphasize delivering small, functional
	Parts of a product through iterative cycles.



Scrum:
· Iterative progress through sprints.
Entreme programmery
· Highly - quality software through technical excellence
and customer satisfaction.
Dynamic Systems Development Method
· Structured yet flexible delivery of softwar
2. Flow-Based Frameworks
Thex methods focus on managing workflows and
visualizing progress to optimize delivery.
Lahban: Visualizing workflows and limiting work in progra
Scrumban: Combines Scrum's structure with Kanban's flerible
3. Scaling Agile Frameworks
Designed for large organizations with multiple teams
working on Interiornected Projects.
·Scaled Agile Framework (SAFE)
· Lange scale Scrum (Less)
· Disciplined Agile UDM?
4. Agile methods for continuous Improvement
These methods emphasize incremental improvement and
Jean thinking.
· Lean Software Developement.
· Kaizen
5. Industry- Specific Agile Methods:
There are tallored for specific fields of workflown.
. Agile marketins.
· Agile UX Derign.



Wh	at is agile project life cycle and its stages ?
	le project leste eyelt dépicts the mages on steps traoup
rigi	is dillipsed second a popular de para l'internation
	in different stages a project goes shrough.
· A	file life eyele mainly consists of 5 stages
	Concept
	clasure
-	1 Iteralion
	Plannety.
	and adaptain and
	Eneulion
-	
1.	Concept I Instiation;
	· Define high level goals and identify key stakeholder. · Create a product vision and initial touslog.
	: courte a conduct vision and initial toruston.
	male a producti or seem are
2	Iteration Planning
	· Breaks the process into sprints @ Events.
	· Defines darks and prioritize features.
	referres varies
3.	Execution
	· Jeanworks collaboratively do complete tasks.
	from the sprint backlog.
	· Deliver increments of working software at the
	Deliver recreations of working property
	end of each sprint.
	•



4. Monitoring and ordapting · Regulasty review progress through stand-ups and spalit acuteus" · deliese prioritizes and refine the backlog based en judbock. 5. Closure · Deliver the final product incoment · Conduct a retrespective to gather lessons learned for fulue projects. Represent the other phases of Adaptive software duelopement? Adaptive Software Development is an Agile Methodology focused on adapting to change and fostering continuous learning throughout the software development process. It was created by Jim Higsmeth and focusses on complex, uncertain and rapidly changing invisorments. making it ideal for project where requirements are. fluid @ unknown. Ky principles of Adaptive Software Development Sterative and Inoxemental process continuous Adaptation Feedback Driven perelopment Risk Management.



1
The three phases of Adaptive Software De Velopmens
1. Speculation
· In this phase teams make initial assumptions about
the project, identifying high-level requirements, goals
and constraints
· This phase is about selting direction, but there's an
acknowledgement that these assumptions may change.
· Instead of creating a fined plan, teams will spectulate
about how the project might unfold, I dentifying
risks and preparity for flowbility in approach.
2. Colloboration
· Once the initial decision is set, the team enters o
phase of colloboration where they work closely with
estakeholders, users and each other.
· This phase is about sharing knowledge, idea and
perspective to ensure everyone es aligned.
· Constant colloborations is key here to refine and
adjust the product based on what's being learned throughout the process
learned throughout the process
V
3. Learning
. As a developemental progress, the team will
continuously gather feedback from stakeholders
and real-world usage.
· with each iluation, the Jean leains more about -
· with each iluation, the Jean leains more about - the project's challenges and the even's needs.



Adaptive eyels Planning Requirement gethering JAO min's speci
Adaptive cyclo Planning Planning
(Speculation) [colloboration]
Release components grap lementer! software: Lested focus:
incement I Leaening / Lested focus
increment Leaening / E
Core values of Adaptive softwar Developement.
· Embrace Changi
· Customer colloboration:
· Frequent Delivery of working software.
· Simplicity and Focus.
Explain in detail about the life yele of extreme
Programming?
Entreme programming is an Argile software development
methodology that emphasizes high quality software. and responsible customer-centric delivery. It focuses
and responsible customer-centric delivery. It focuses
on engineering practices, frequent releases, and
forleing colloborations among team members to
adapt to changing requirements effectively.
core prinaples
· communication
· Si mplicity
· Feedback
· Courage
· Respect.
1 Sput



boals
· Delivery high-quality software
· Inwase adaptability to customy nucls.
· Inwase adaptability to custome nucle. · Improve team vollaboration and efficiency.
Likewale of XP
To operates in a smoot, clustic cycles, making ill adaptive. do changing requirements, each cycle includes the
to changing requirements, each eyele includes the
following thoses.
a. Exploration phase.
ols: undertanding the automor requirements
sketiv ites
· collaborate with customers do create such stones that
define dyned features
· explore the dechnical fasibility of we stores
b. Plannety phase:
objective: Prioritize and plan for developement.
schuter
· Break down wx stores ento small, managable tark.
· Extimate efforts and select tasks for the introdion
C. Iteration to Relian
objective Develop and deliver a working product in acment.
Octivibes'
· Write code wing pair programmen. · Validate with Jest-driven-development.



· Prequent Integrale and dest changes. d. Productionizing phase: Objective: Propose for release Detroftes: · conclud fired system litting.
· Release the product increment to the customes! e. Maintanence Phose: objective: Handle updates and feedback. delivities · Resport to bugs of changing regularments.
· Continue developement using XP practices. f . Death Phose. Objective: Class the Project dictivities. · Deliver the completed product.
· Reflect on lessons bained for future improvement. 5. Indicate the concepts of Earls KM Model ? A . Knowledge Management is the process of Identitying, effectively utilizing knowledge and Information within an organization @ community. · At theolies managing properly and dalabases to facilitate learning.





3- Knowledge organization				
. The captured knowledged needs to be organized in a				
· The captured knowledged needs do be organized in a way that makes it cary to find and use. · can be done through various methods such as category.				
· can be done through reasions methods such as categorism.				
-knowledge by topic.				
4. Knowledge shasine				
· Once the knowledge has been captured and organized, it needs to be shared with relevant stakeholders				
it needs to be shared with relevant stakeholders				
Colling The Annalyselfon.				
· This can be done through various methods such as training programs, collaboration Jools.				
as training programs, collaboration Jools.				
5. Knowledge Franzfes.				
knowledge trænsfer involves transferring knowledge from				
one person departement to another.				
· This can be done through various methods such				
· This can be done through various methods such as mentoning Job shadowers, or on-the Job Training.				
6. knowledge application.				
· The cultimate goal of knowledge management is to apply knowledge to improve organizational performance. This can be done through various methods such as				
apply knowledge do improve organizational performance.				
· This can be done through varrous methods such as				
process improvement, product innovation @ customer				
service enhancement.				



7. Knowledge Evaluation
· It is important to continuously evaluate the effectiveness
no the enoughder manualment process
. This can be done through various methods such as
fiedback surveys @ performance metrics.
quaract serres of
& knowledge maintaners.
. knowledge needs to be updated and maintained outen.
to ensure its relevance and accuracy.
· This can be done through various methods, such as
regular reviews, updates to knowledge management rystans.
a oncoina faraining paparam.
ongoing draining program.
Significance of knowledge Managemens
· Improved decision making
· Increased Innovation
· Exlendended colloboration.
· Improved curtomer server
· Reduced Risk.
* processor ve



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