**Agile**

Agile is an incremental AND repetitive model  
 Incremental:   
we accept the requirement changes in between   
  
repetitive model: certain phases such as design development and testing will be repeated again and again for developing each requirement  
  
In agile model, we are delivering the piece of software  
  
Advantages :  
1) in agile we are accepting the requirement changes   
2) agile gives the fastest delivery of software   
3) in agile there is good communication between the developer tester and the customer  
  
Disadvantages   
requires a maximum cost to implement agile model  
we always require a dedicated person to drive agile process  
  
**Scrum framework or Scrum methodology:**  
it is an agile framework it implements the agile process  
  
Team:  
**Product Owner**- BA(business Analyst) it is person who gathers customer requirement and communicate with client and understand requirement   
It is a mediator between team and customer

**Scrum Master**   
it is a person who is responsible for driving the agile process  
  
**Developer and testers**  
  
  
Agile Methodologies  
  
 **Agile Methodologies**

**Sprint** : It is time estimated to complete the task.  
  
Requirement(new feature) – Login page has create a account link , we have to develop reset password page  
  
Design develop and test---time period to complete this 3 phases is nothing but sprint  
  
**User story :**it is the requirement of the client  
login page has forget password link  
product owner will create a user story

User story   
title: forget password link

Acceptance criteria:  
login page has forget password link and it should open the create password page  
  
**Epic:**  
collection of user stories or big requirement   
 **product backlog**

list of user stories is called as product backlog

**what’s App application**user story 1: user should add their mobile no  
user story 2: add contact  
user story3: what’s app logo   
user story 4: UI elements on application   
user story 5: user should able to sent text messages,image, video   
user story 6: three fields on main page chats calls and status  
user 7:Chat page   
user story 8:call page  
user story 9: status page  
user story 10: what app able to access external files   
planning meeting : we will going to work on user story 1 and 2  
sprint 1.1- 3 weeks- Develop test

**sprint backlog**Dedicated user stories that we are going to develop and test in particular sprint  
  
user story 1: user should add there mobile no  
user story 2: add contact  
  
**Story Point:**time decided by the developer and tester to complete the user story  
Rough time estimation of user stories, given by dev and tester in the form of Fibonacci series is called as story point.  
  
developer 4 2 front end 2 backend  
tester 4

user story 1 has 3 parts   
user story 2 has 3 part   
  
front end user story 1--- develop – developer time – story point –5 days -5 story point   
  
tester user story – 3 days to complete the user story- 3 story point  
  
Fibonacci series – 1,2,3,5,8……..  
1 day – 8hrs

1 story point 🡪 1day / 1 hr

**Burn Down chart :**  
Graph maintained by scrum master   
it shows how much work is completed and how much work is remaining in sprint  
  
 **Agile Ceremonies**/Meetings

**1)Daily scrum/stand-up call:** Everday meeting10 -15 min daily meeting   
in that meeting, everyone should update there work status  
  
**2)Sprint planning meeting:**

A meeting was conducted before starting the sprint   
  
we will decide which user story we are going to develop and test in a given sprint   
what is the time period of the sprint   
and we will decide the story point

**Sprint Retrospective meeting:**  
  
meeting conducted after finishing the sprint   
we will discuss what went wrong in previous sprint, what went well and what improvement we have to do for next sprint