DevOps

DEV+ OPS

TDT -Test Driven Development

1.Groovy - Java
2.Python

Operations -

- Linux – shell scripting
- Git + GitHub
- CI/CD - pipelines – Jenkins
- Docker
- Kubernetes
- IAC – Infrastructure as Code [Terraform + Ansible]

Monitoring Tools -

   Splunk

Deployment –
   AWS

Collaboration of Development Team and Operations Team

   Groovy
      Requirements -
         JDK
         Eclipse
         JVM - interprets bytecode to native code executes the class file

Groovy is an object oriented language which is based on Java platform. Groovy 1.0 was released in January 2, 2007 with Groovy 2.4 as the current major release. Groovy is distributed via the Apache License v 2.0.

Object oriented language
Supports functional Programming
Supports Dynamic Typing - def age =25

Functional Programming -
Functional programming is a programming paradigm in which we try to bind everything in pure mathematical functions style. It is a declarative type of programming style. We can return a function, pass a function as a parameter etc.

Waterfall Model

Requirement Analysis
System Design
Implementation
Integration and Testing
Deployment
Maintenance

JIRA - tool for planning

Demo seen

Agile

Scrum - holistic development approach
   Follows a common for most of the
   projects. Incremental agile SD
   framework.

   SCRUM Roles -
      Product owner
      Scrum Master
      Scrum Team

   Scrum Ceremonies
      Sprint planning
      Sprint review
      Sprint retrospective
      Backlog Refinement

   Scrum artifacts
      Product backlog
      Sprint backlog
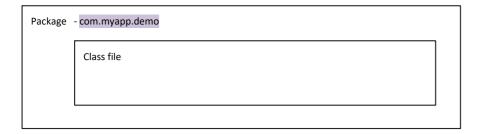   Burndown Chart

   PRODUCT OWNER
   SCRUM MASTER
   SCRUM TEAM

Story points are added to mark a user story as important

Doable items at the sprint is called as sprint backlog

Picked from the product backlog.

GROOVY Day2

24-08-2023

Package - com.myapp.demo

Class file

First program -

```groovy
package com.myapp.demo

println('My first Groovy Script')
```