**Day 9: Additional content -Agile and JIRA tool**

What is Agile?

* Agile is the most common development methodology in today’s IT world
* There is a time-bound iteration (Sprint). Each sprint should result in a “potentially shippable product”
* Changes are fast, requirements evolve quickly, Less documentation, less structured
* There is close co-ordination needed within team (developer/tester/BA). Developers and Bas also test their application
* Each iteration (Sprint) has its own testing phase. This means testers need to plan for both new changes & regression testing
* Automation could be the best option to conquer Agile testing challenges

Welcome to JIRA

* JIRA is a tool for project management, backtracking, issue tracking and reporting.
* It is developed by an Australian company called Atlassian. It is used by hundreds of companies worldwide today.
* The tool supports both is scrum and Kanban methodology.
* JIRA is easily customizable with option for several issue types and customizable workflow for each.
* There are 100 of plugin and API is for integrating our GTA with other tools like example, the test management tool or reporting tool.

Use of JIRA as a tester

* Requirements – Testers get business requirements in form of Acceptance criteria in JIRA “stories”
* Test Case linkage – Test cases can be linked to requirement JIRA for traceability (RTM)
* Test Execution linkage – Execution of linked test cases can be tracked in JIRA
* Defect Reporting – Any defects related to new requirement or regression can be logged in JIRA, tacked and moved to correct status.
* Reporting – JIRA agile boards allow to view requirements, defects and their status in one place, allowing real-time reporting
* JIRA can be used to create a “backlog” of requirements
* An “active sprint” can be created with stories to be worked in current sprint, ranked in order of priority
* Each story has “sub-tasks” for each team member (Dev, QA, UAT)
* The board also lists defects worked on in current active sprint
* There are a lot of Agile reports generated by JIRA, example burn-down, velocity etc.