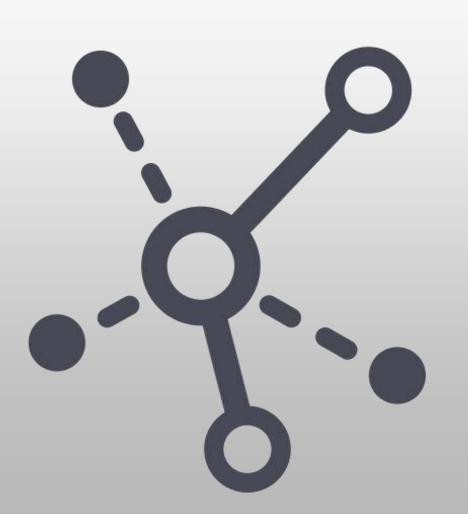
DAG Designer

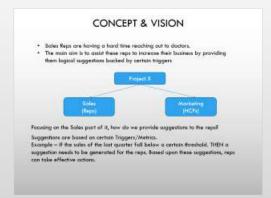


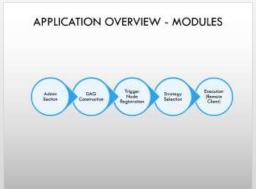
Name – Ruchit Bhardwaj Mentor – Neha Tanwar Manager – Gaurav Chopra

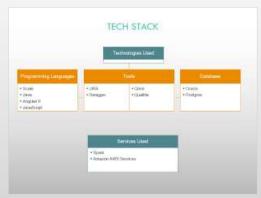
CONTENTS

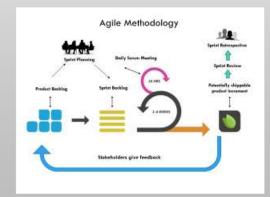
- CONCEPT AND VISION
- APPLICATION OVERVIEW
- PROJECT FLOW
- TECH STACK
- AGILE METHODOLOGY
- QA ROLES AND RESPONSIBILITIES

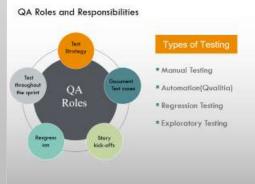
PRESENTATION OVERVIEW





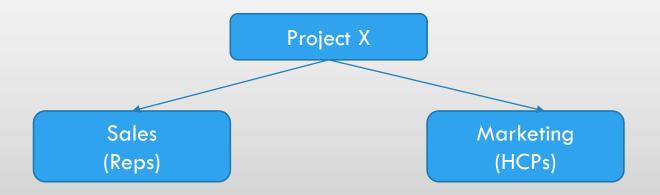






CONCEPT & VISION

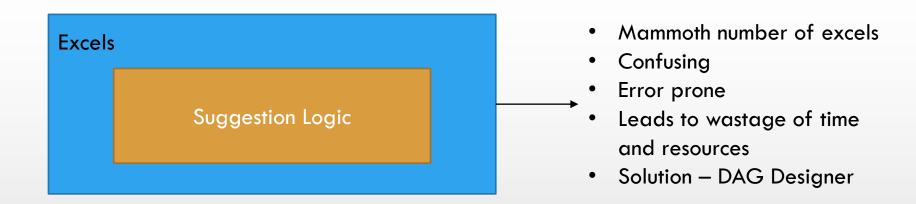
- Sales Reps are having a hard time reaching out to doctors.
- The main aim is to assist these reps to increase their business by providing them logical suggestions backed by certain triggers



Focusing on the Sales part of it, how do we provide suggestions to the reps?

Suggestions are based on certain Triggers/Metrics.

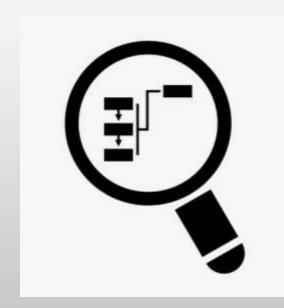
Example – If the sales of the last quarter fall below a certain threshold. THEN a suggestion needs to be generated for the reps. Based upon these suggestions, reps can take effective actions.

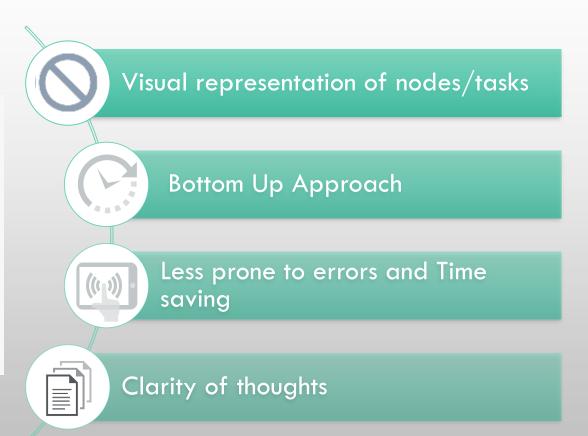


Structure of a typical Excel -

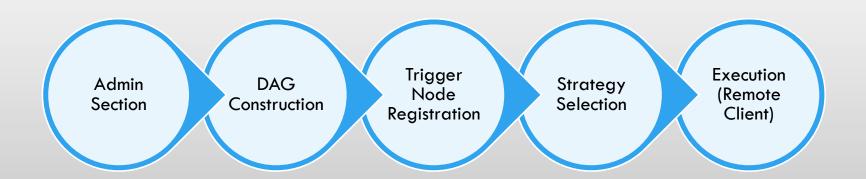
Node	Parent	Operation	Contained_Action
Source			
SQL	Source	select * from tablename	
Write	SQL		
Trigger			Write

Motivation for DAG Builder

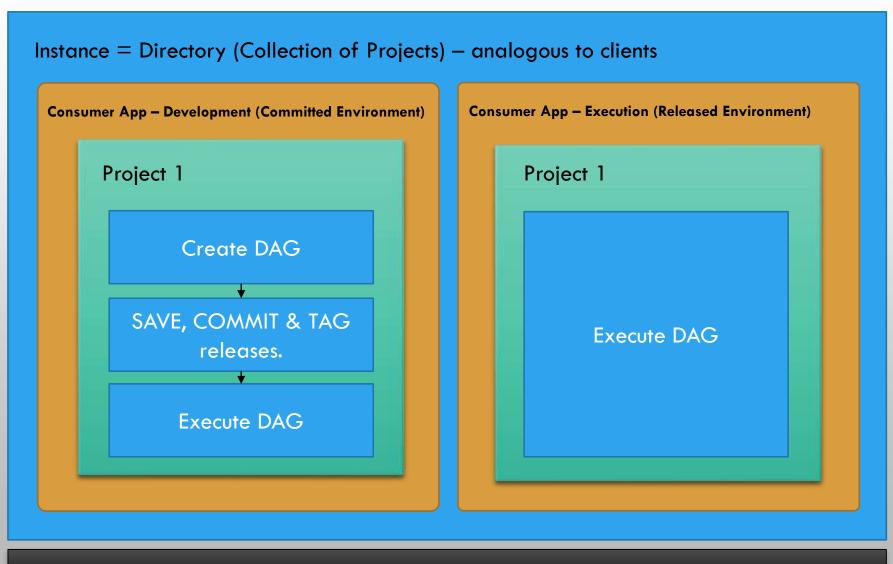




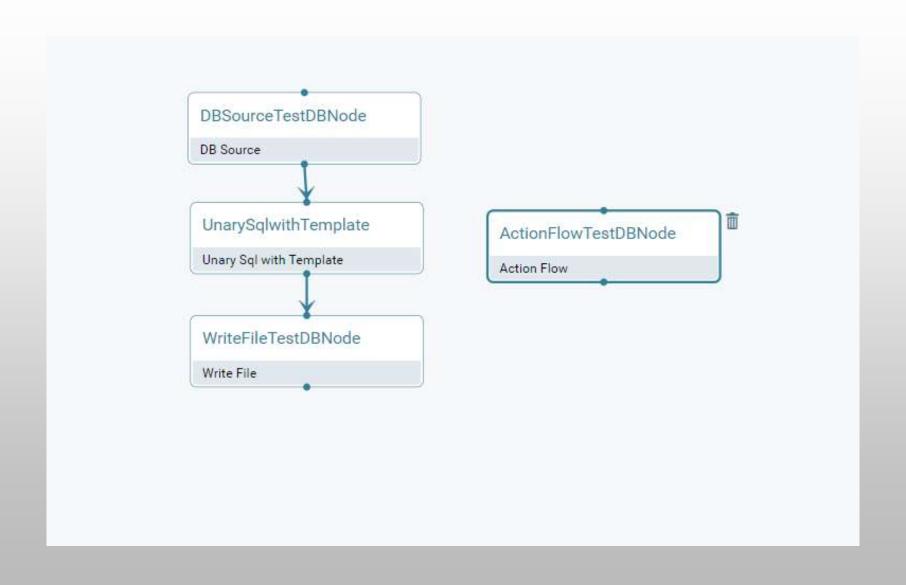
APPLICATION OVERVIEW - MODULES



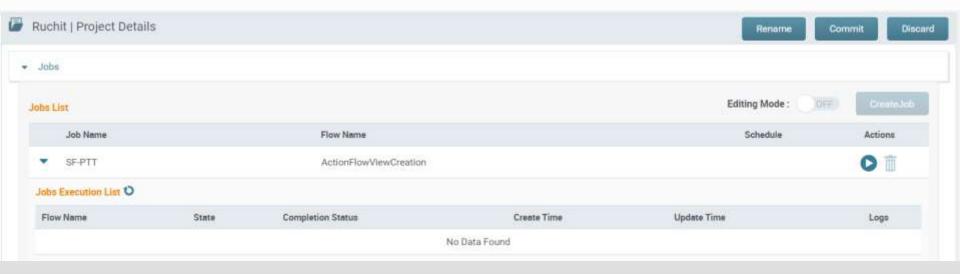
ARCHITECTURAL COMPONENTS - ADMIN SECTION



DAG Construction

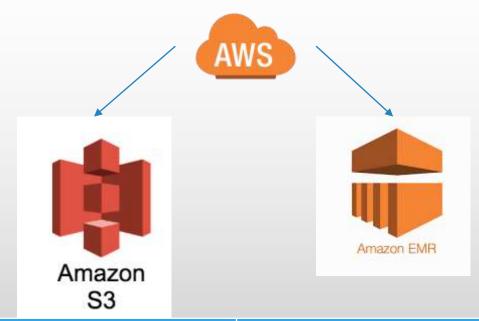


Trigger Node Registration & Strategy Selection



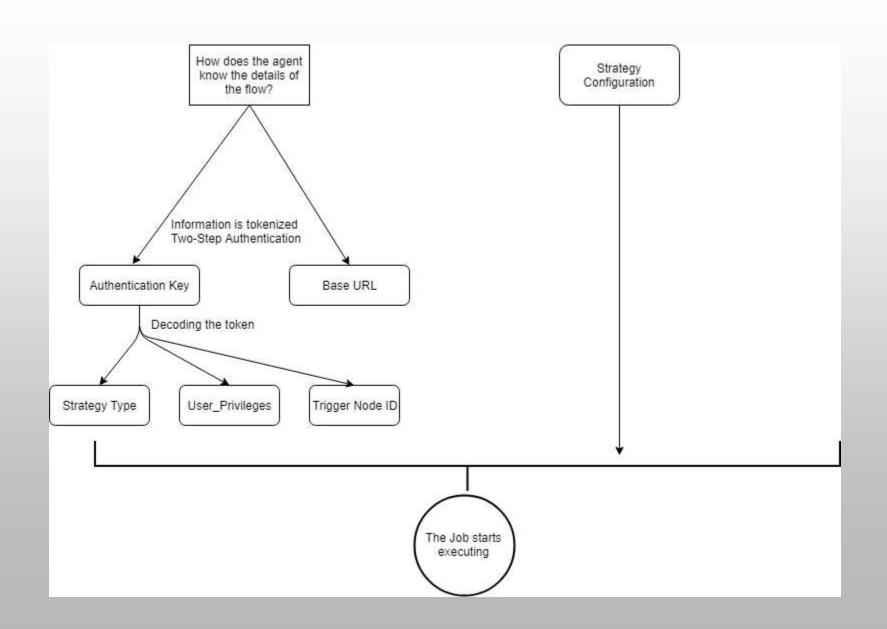
- Once the trigger node is registered, a strategy needs to be selected.
- Strategy serves as a way to resolve any dependencies that the DAG nodes might require to successfully complete their execution
- Strategy can be one of the following
 - Global SaaS same for all instances
 - Per Instance specific to certain instance since different client might want different configurations for their project

Services used for Remote Client Execution

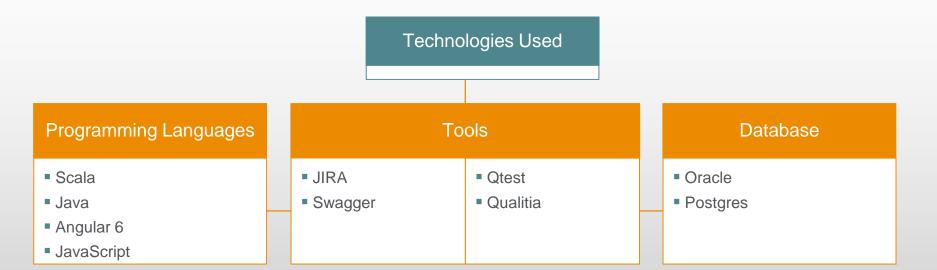


Simple Storage Service	EMR	
Storage repository	Easy way to process and analyze data	
Analogous to the conventional File structure – concept of buckets	Scalable according to need	
Cost effective	Cost effective	

Flow Diagram for Job Execution

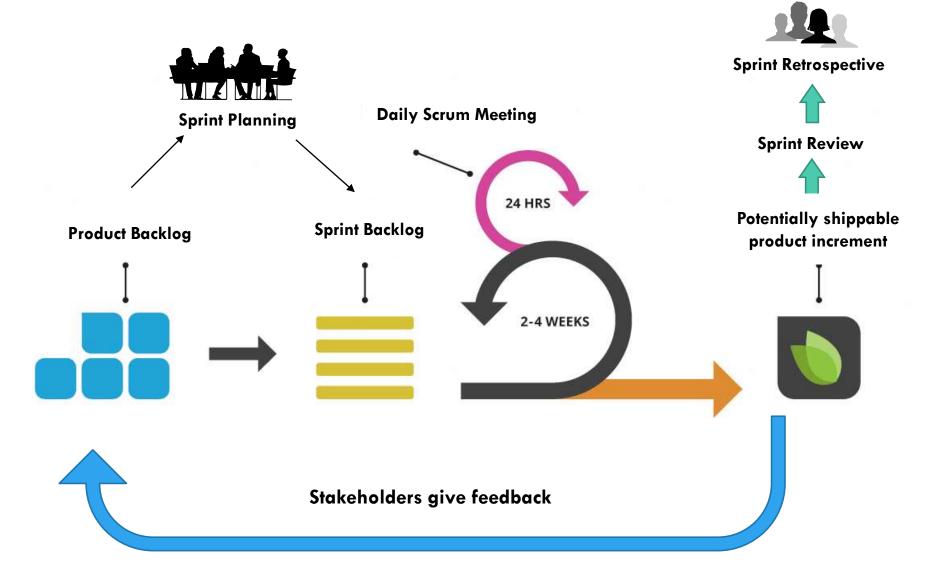


TECH STACK

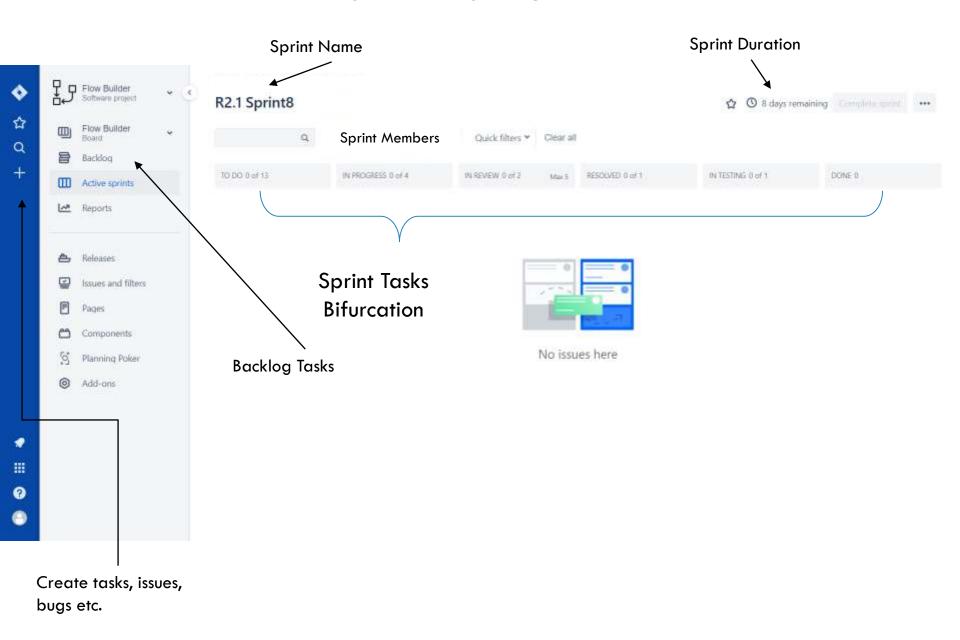


Services Used Spark Amazon AWS Services

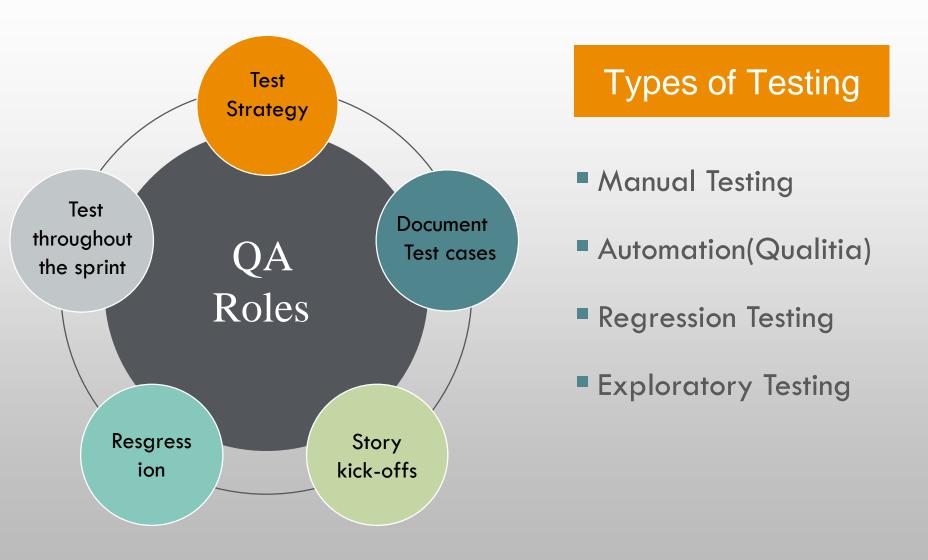
Agile Methodology



JIRA DASHBOARD



QA Roles and Responsibilities



Basic tasks in testing

Planning

Sprint Planning

Document test cases

- Discuss Test
 Scenarios
- Document Test Cases in Qtest
- Link test cases to JIRA stories

Discussions

• Discuss with UX

Testing

- Story Kick-offs
- Testing on QA environment

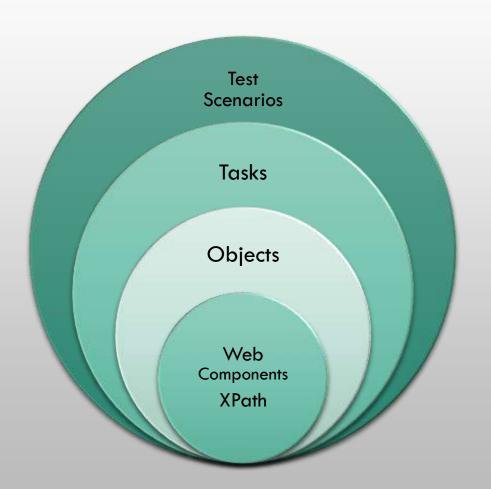
Demo

Demo your work

Regression

Test the basic functionalities





- A trending tool for automation testing
- A full fledged report of the automation is available after the test case run
- Wrapper over Selenium
 Web Driver
- Makes the overall process of automation testing a lot simpler

Thankyou