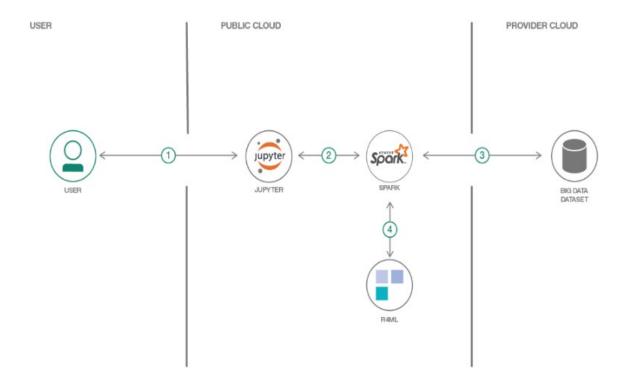
## **Technology Stack (Architecture and Stack)**

Team ID	PNT2022TMID53082
Project Name	Flight Delay Prediction
Maximum Marks	4 Marks

## Technical architecture

The deliverable includes architecture diagram and information as per table 1 and 2



**Table 1: Components and Technologies** 

SNo	Component	Description	Technology
1	User interface	How user interacts	HTML, CSS, JS,
		with application	Flask
2	Application Logic - 1	Logic for process in	Python

		application	
3	Application Logic - 2	Logic for process in	IBM Watson STT
		application	service
4	Data processing	To clean data	Pandas, numpy,
			matplotlib etc
5	Database	Store data	MySQL
6	File storage	Storing files	IBM Block storage
7	External API-1	External API used in	IBM Weather API
		the system	
8	External API-2	External API used in	Email API
		system	
9	Machine Learning model	Purpose of ML	Evaluation and
		model	prediction models
10	Infrastructure (Server/Cloud)	Application	IBM Cloud
		deployment	

<u>Table 2: Application Characteristics</u>

S No	Characteristics	Description	Technology
1	Open Source	Open source	Python-Flask
	Frameworks	frameworks used	
2	Security	Security/access	Encryptions, SHA2
	Implementations	controls	
		implemented,	
		firewalls used	
3	Scalable	Scalability of	Python
	Architecture	architecture	
4	Avalability	Availability of the	IBM Cloud
		application	
5	Performance	Consideration for	Python, Flask
		the performance of	
		the application	