**What is MS Teams?**

Microsoft (MS) Teams is a hub for teamwork collaboration, which brings together people and everything needed such as chats, video conferencing, meetings, and content collaboration. This technology was created by Microsoft, was created during internal hackathon held at company headquarters.

Some of the features offered by MS Teams include chats facility, which allow communication via chats. Additionally, teams can be created to be private to the invited users; they can also be created to be public to a group of users. MS Teams comprises of channels, which are dedicated sections in a team, for keeping conversation organized based on a specific topics, projects, or discipline.

Today MS Teams is used as a communication and collaboration platform. The application has got quite several options which makes it to be more useful, which include chatting facility, videoconferencing, teams’ channels, task management etc.

**Fundamentals of the Software/ Application**

MS teams offers different features galore, which include tight connectivity with other Microsoft applications. The application is integrated with Microsoft System Center and is applied when advanced monitoring capabilities are required as well as the notification support. The application allow one to create and join the meeting using the assigned code. Hardware requirements for MS Teams to run on Windows include processor speed of 1.6GHz or higher, memory of 4 GB RAM, and the available hard disk must be at least 3GB. When registering with MS teams, details such as names, email address, password, among others are kept on the Microsoft database.

**Performance**

Recently, Microsoft highlighted to have doubled down on Microsoft Teams Performance with several enhancements. For instance, Microsoft Teams on Windows and Mac have become 30% much faster as compared to the previously. For the IOs, it is anticipated that it will improve 40% for background battery life consumption. Additionally, Microsoft Teams is also working on improving the performance of the clients’ application across platforms. Microsoft have also improved launch time whenever users are launching meetings via the application.

**Technical Analysis of MS Teams**

MS Teams has been developed using advanced AI algorithms, which presents different functionalities of the application. A good example is the new user suppression feature available in the app which uses machine learning to detect unwanted background noise. This feature has the capacity to filter background noise. The technology works through the analysis of caller’s audio feed and identification of unnecessary noise as per the dataset consisting of 760 hours of clean speech, and 180 hours of 180 hours of noise data.

 MS Teams database connection can be integrated with the teams directly with SQL database to populate specific reports via DB connector. Teams database connections offers the following functionalities: creating reports in PowerBI, installing a data gateway for posting to a channel, writing to own bot, and integration with SDK. Additionally, Microsoft has provided various tools to the developers to facilitate extension of MS Teams application. For example, the company launched recently Visual Studio and Visual Studio code extension for teams. Additionally, the introduction of new integrations between Power Platform and Teams are critical in helping the IT admins in managing the application. Additionally, with Microsoft Studio app, the developers finds it easier to with the Microsoft Graph, which uses API to send notification to users across different devices.