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IMPAXIVE: Cloud Base Business Intelligence Platform

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ABSTRACT: IMPAXIVE name abbreviation Impact: A marked effect or Influence. Hive: A place in which people are busily occupied. As we all know traditional data collection system is outdated and many fortune 500 companies requires much more automation and crystal clear data for better prediction of company future growth. Our platform can help you get rid of all the traditional part and overcome all the challenges over automation. Our Platform is based on SaaS {Software as a Service} module of CLOUD which includes BI {Business Intelligence} and ML {Machine Learning} for data/project predication. Intra-Chat system with the help of AI{Artificial Intelligence}. Fully automated and reliable for any Start-up to Fortune 500 companies. Starting from the On Boarding process to the Project delivery, this system can be consider. Using ML modules, we can easily predict if project lead will be converted or not, with easy tracking system. This platform can be useful for Data Analyst and Data Scientist. Impaxive can be used during any pandemic situations for business continuity.

KEYWORDS: Cloud, SaaS / PaaS, Business Intelligence, Machine Learning, Artificial Intelligence, Data Analysis, & Data Science

I. INTRODUCTION

Impaxive is the cloud base business intelligence platform which relays on SaaS/PaaS Module. Impaxive platform is user-friendly and all the modules and functionalities are easily accessible around the world irrespective of device you use. Impaxive can be useful to overcome traditional data collection system, using automation and to get crystal clear data for prediction of company future growth. Impaxive platform is integrated with different sub-modules consist of intra Chat, Email and Ticketing tools. Impaxive is a stand-alone platform which provides On-boarding process for Employee hiring, Project Delivery, Lead Generation, and Invoice / Estimation Creation Tracking with seamless performance. We have also taken care of all the major security aspects for data breaching and duplications. Impaxive is fully automated and reliable for Start-up to Fortune 500 companies. Using Impaxive we can reduce human errors as well as the work load. Reliable platform for Data Analyst and Data Scientist which can be extracted from Impaxive. The paper illustrates how a fully integrated Cloud based BI solution can work incorporated into other Cloud based applications. The technical concept shows how the needed interface can be provided and gives an example. [1]

Cloud computing became one of the major IT trends, whether the term Cloud is liked or not. More and more IT related offerings are being provided over the Internet and paid based on usage day by day. [2]
It can be helpful such that
- Increasing Business Challenges.
- Enterprises to make good decisions Fast.
- Impaxive will help to extract the data or information, structure and analyze the data and summarize the results for decision makers.
- Lowers financial barrier and makes accurate and perfect calculations.
- Maintenance of file is efficient and flexible.
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II. LITERATURE REVIEW

To secure the long-term success of an enterprise, one has to anticipate changes and needs full transparency. To come to this transparency is a challenge that has been present for generations of business leaders and the pure amount of information and data produced by modern enterprises today counteracts this goal. [1].

III. EXISTING SYSTEM

The idea of Cloud computing came up already in the 60s, when Professor John McCarthy developed the basic idea of offering calculation power to the public for a usage fee. At that time, the technical possibilities of a global network like the Internet were not available. So it took until 2000, when the term Software as a Service (SaaS)became known, and with the connection to Grid computing, the term Cloud computing came to life. Cloud computing can be defined as follows: "Gartner defines Cloud computing as a style of computing in which scalable and elastic IT-enabled capabilities are delivered as a service using Internet technologies." [2] In the existing system we have observed lot of discrepancy into data and no perfect data was found by the companies which were making use of paper base records. So we came up with the idea of all in one Cloud Base Software where each and every one can manage their business using this platform. Still many companies use or maintain records in some sort of book or papers through which the dependency is increases on single employee. [1]

A. *Drawbacks of existing system:*

- **Difficult to Retrieve:** The existing system is not user friendly because the retrieval of day-to-day activities data/records is very complicated and takes time to find.

- **No Onboarding Management:** While onboarding any employee companies faces lot of problem to manage documents, No payroll management No Report Generation.

- **Client in Worry:** Even after paying for project till the delivery and completion client is always in panic state and no provision on Live Activity check.

- **Lots of paperwork:** Existing system requires lot of paper work. To search for all the old records one need to go through all the files and books which is very time-consuming.

- **Delay in Project Provision:** While working on this traditional way company is running out of time and management need to take follow-up's everyday.
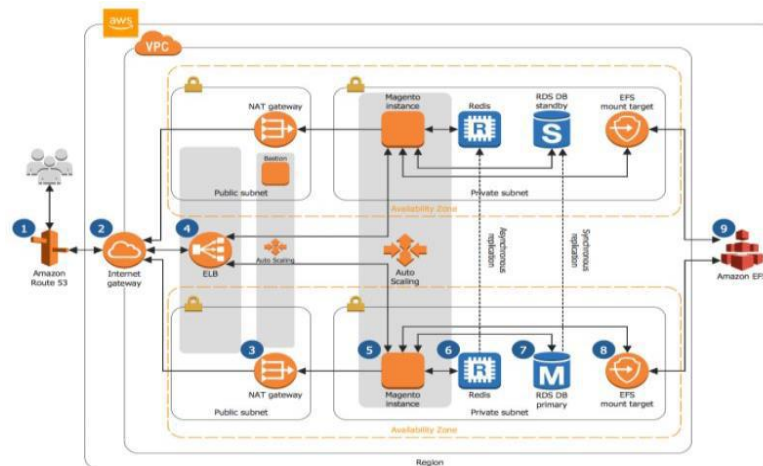
IV. SYSTEM ARCHITECTURE

Fig -1: System Architecture Diagram[3]

Different module of AWS used to deploy our Platform
1. Amazon Route 53.
2. NAT / Internet Gateway.
3. ELB Load Balancer.
4. Amazon Elastic Cache & Amazon RDS
5. EC2 Magento Instance with EFS.

Users of the system:
1. Super-Admin / Admin.
2. Employee Panel.
3. Project Manager / HR / Job-Seekers Panel
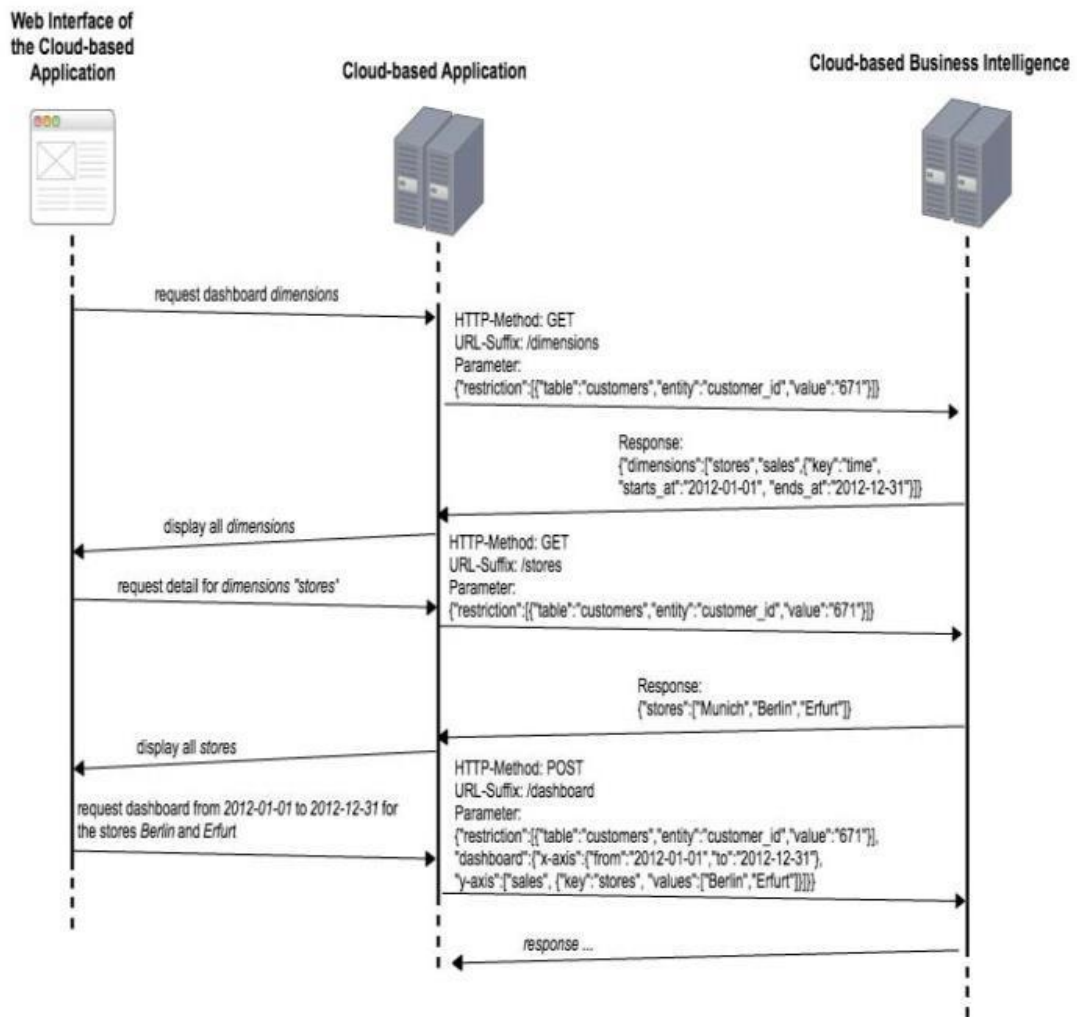4. Client Panel.

V. ACTIVITY DIAGRAM

Fig. 2: Activity Diagram.

Highlight of some main modules of the system:
Super-Admin / Admin:
Super Admin can allocate Admin with specific features of system so he can reduce his work load and can be used by CEO / CFO. **Admin:** They can manage the access control of the employees and job seekers.

Employee / Client Panel:
Individual employee can manage the overall task, attendance clock-in and clock-out time can be recorded with geo-location for anti-cheating. Project Tracking and time utilization, intra-chat system, ticketing tool and much more. **Client:** Track the project completion status. Can Pay Invoice.

Project Manager / HR / Job Seekers:
Each and every task is managing and easily assignment of task is made through Impaxive. HR can do all the work related to JOB posting and On-Boarding and track process. JOB Seekers: They can check the communication form.

VI. CONCLUSION

Impaxive can be the best choice for startup or anyone who is still working on traditional data collection system. Using this platform CEO, Manager and Employees can manage the business anywhere around the world. During pandemic situations we can have best delivery from our employees and project As it is Cloud base we just need Internet and we can access with around the world having best security of AWS.

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[3] http://impaxive.ml/ for Videos and Images.

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