

LOCAL DEBUGGING OF EFFICIENT MONITORING MECHANISM USING AWS ELASTIC BEANSTALK: A CASE STUDY

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Abstract: Maintaining employee efficiency is a very important factor which helps in growth of the organization as well as the employee. Employees Management Software makes it easy for the employer. Individual database reports are maintained for every employee, for which the manager assigns task such as projects and trainings, and view their performance to keep track of employee work efficiency. Employee Management software provides solution for all kind of organization which helps to manage the organization asset: people. This system brings about an easy way of maintaining the details of employees working in any organization.

Cloud applications need more memory space for deployment hence, to avoid that developers use, Amazon Elastic Beanstalk service which enables them to provide an infrastructure environment for the type of application built. Elastic Beanstalk provides an environment which helps developers to develop and deploy their applications which handles a lot of security and network issues.

Keywords: AWS ElasticBeanstalk, Efficient monitoring, cloud applications

1. INTRODUCTION

There are a lot of employees in an organization which makes it difficult for the HR and the managers to keep track of each and every employee. Hence an efficient application is needed which wherein the manager adds tasks and the employee can login and view those tasks. Every time the admin of the application which is the manager logs-in a database list of all the employees is been displayed. The database contains a clickable link when the admin clicks on the particular employee a separate page is opened which contains detailed information of the employee which includes: Employee Date of joining, Business Unit, Domain, HR etc.

AWS Elastic Beanstalk allows developers to run an application in the cloud environment in more feasible and faster way. Which makes it ideal for applications, which require highly variable amounts of traffic. Elastic Beanstalk provides several features which makes it easier for deployment and management of applications on the Amazon Web Services platform. Which also provides integrated access to other AWS cloud services like Auto Scaling and CloudWatch, for increased reliability and security of the applications.

2. SCOPE OF THE PROJECT

The scope of the project includes creating an application which eases the task of employee efficiency monitoring. Second is to deploy the project in an AWS environment so as to manage and maintain the developed app.

And the main aim of the developed application is to analyse the time for a particular task. Also displays how much time was taken to complete a particular process or a task which helps them identify the efficiency of the employee.

3. SYSTEM PROPOSAL

The proposed system includes the following modules:

Admin Module: The admin module includes the main user of the application, which uses the portal to view tasks, add tasks, add or delete users, also to modify user roles.

Project Management: Assign tasks and projects to employees, assign a project team and keep track of the progress.

Employee Module: The employee can view tasks, view projects and also view trainings. Also edit any of the details like ph.no, Address etc.

Report generation: At the end of the weekly reports are generated which displays how much progress is made by the employee in that particular week.

4. SYSTEM WORKFLOW OF THE PROPOSED SCHEME

SYSTEM FLOW DIAGRAM

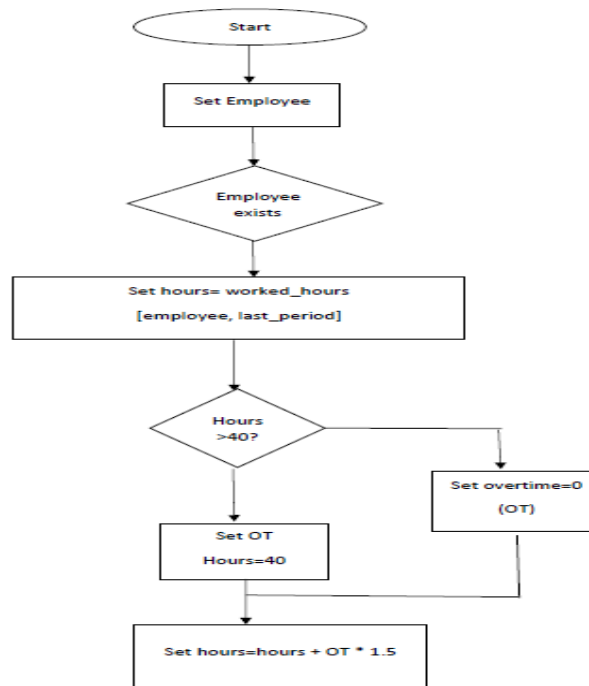


Fig 1. System flow diagram

5. EXISTING PROBLEMS

There have been applications when Employee and HR Management System have been existed but there are no dedicated applications which allows only to track the employee performance to maintain the employee work efficiency.

And through recent surveys it has been found that maintain the huge traffic generated in web applications has been a tedious task. AWS Elastic Beanstalk environment provides this facility to maintain the huge traffic generated by providing Load balancing facility though Auto-Scaling groups.

6. CONCLUSION

This system is developed as Web application through PHP server scripting language. It s implemented on Apache HTTP (xampp) server and tested on sample data which helped in successful generation of timely reports. Also, the application was successfully deployed on Amazon Web Services, Elastic Beanstalk environment which helped in efficient monitoring of the application providing a suitable infrastructure service.

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