Automation of Trainee Life Cycle in the Corporate World

Shivakumara T, Muneshwara M S, Rajshekhar M Patil, Nirupama B K, Chethan A S

Abstract: The paper proposes Automation of trainee Life cycle to override the problems that exist in the current manual system. This paper is supported to eliminate and to reduce the difficulties faced in existing system. This system is particularly designed for a company to carry out their operations in a smooth and effective manner. Automation of trainee Life cycle refers to an employee’s journey in the company, the trainee to employee life cycle from the initial phase of recruitment to resignation or terminations. The selection of the centers will be based on the previous year days for a particular center. After the selection of center’s the interview dates will be selected and the interview will be held for that particular center on the selected dates and in the end result of the interview will be updated to the application.

Keywords: Automation, Interview, Life-cycle, Trainee

1. INTRODUCTION

Automation of Trainee Life Cycle is a task that is created to defeat the issues in existing framework. This application causes us to dispense with and to lessen the troubles looked in existing framework. This framework is especially intended for an organization to do their tasks in a smooth and successful way.

Student Life Cycle alludes to a worker’s voyage with the organization. From being student to an Employee, beginning from being selected and winding up with abdication or end. The “Computerization OF TRAINEE LIFE CYCLE” application is a web application that is for the most part created to lessen the manual work and get the surmised outcomes. In this application we have given 2 login certifications one to administrator, another is for hopefuls. The determination of the focuses will be founded on the earlier year information of every specific focus. After determination of the focuses the meeting dates will be chosen and meeting will be booked for the focuses on chosen dates and toward the end, aftereffects of the meeting will be refreshed to the applications.

An applicant after enlisted is considered as a Trainee at an association. It is most significant for the association to have a powerful support of the applicant’s subtleties for the future use. With the goal that an association can have information about the student’s and can see their status toward the end. In our application the administrator’s main responsibility is to give required number of applicants, year and learner type for which the meeting must be held and our application will compute and get the top focuses to be visited for a grounds drive dependent on the necessities given by the administrator.

A table will be shown to administrator which contains information like i) expected of students, ii) Letter to be offer, iii) Candidates for composed test, iv) Number of Center. At the point when administrator taps on “number of center’s” segment, the rundown of universities and focuses will be shown in like manner, this gives simplicity in choosing the best schools/focuses from the rundown. Administrator gets this rundown of the focuses dependent on the earlier year’s joined rate and standard for dependability of that specific focus. Administrator needs to choose the no of focuses he needs to visit and every one of these focuses are been allotted with specialists.

Later the meeting results will be transferred in our application, and put away in associations’ database that can be brought at whatever point it is required. With these information and data standard for dependability, cushion rate, joining rate for one year from now’s grounds drive can be determined. A different rundown is made for the applicants who are chosen, rejected and put on hold. The applicants who are chosen must be approached the grounds yet not every person can be approached to come around the same time. So the association will make bunches, the groups are framed dependent on the past information (bunch prioritization + Numbers). Individuals from human asset makes telephone call to every possibility to report the joining dates and directions that are to be pursued and they will decide status of the applicants into application whether he’ll be joining or not or might be far-fetched with reasons, these method will be completed multiple times i.e., first is before one month of joining, second before 15 days of joining, third is before 2 days, whenever expected number of hopefuls are not going to come at that day then they need to pull up the competitors from the other bunch, this will occur in the wake of calling contender for second time.
After the third call they will give the competitors' names to the security. After finish of the joining conventions the applicants needs to login with their qualifications given by the association so they can fill the information application structure, Bank Advisory structure, ID identification Forms, ESI shapes in the application itself which will decrease the manual work. Utilizing these information given by the ace page (for example exceed expectations) is framed and after that report confirmation is directed, where they gather every one of the records from the competitors and send that information to human asset for ace creation. At that point the hopefuls will have instructional courses where they'll be furnished with a total association consider, after that the competitors will be apportioned to specific offices, the portion for the division will be done dependent on the office prerequisite. At that point the competitors will be allocated with movements’ example and dates that will be handover to the division chief. So the learner needs to go to the classes dependent on the movements distributed to him. Toward the end, Academic outcomes will be reported of every competitor dependent on their presentation. In the event that the applicant neglects to clear scholarly tests, at that point he/she needs to suspend the preparation.

II. LITERATURE SURVEY

A. Existing and Proposed System

In the current framework, every one of the procedures that are incorporated into a grounds drive are been done physically in the present association. Ascertaining joining rate, standard for dependability of each inside was done in exceed expectations Document. What's more, an exceed expectations report for consistently grounds drive was put away. Joining rate, degree of consistency, support rate are been determined taking past three or four years information of each inside or school information into record. In the wake of figuring these rates, a rundown is been shown to the client. This rundown contains names of universities whose joining rates are high and are recorded in like manner. The client needs to choose the middle's that are to be visited for a grounds drive. In the wake of choosing the focuses, dates are been doled out to each inside. Following to this is making letters to each middle and mailing the separately. This includes a great deal of human exertion again for composing separate letters to each inside and mailing them to their specific location. To locate a precise degree of consistency, joined rate and other information it requires least of 3 years information and finding every year's information from administrative work is a monotonous activity to do. Ascertaining these information physically would regularly result in incorrect information. In current framework they didn't have alternative of choosing specialists, they used to make an exceed expectations sheet where they would record every specialist name and send it to make a trip work area to organize travel courses of action. However, our application is beating all these manual issues. In the wake of completing a grounds drive, a rundown is made of hopefuls who have been chosen. Their subtleties, for example, name address telephone number scholarly subtleties are recorded in an exceeds expectations sheet. These understudies are called multiple times before joining so that to know their joining status. In the wake of knowing the joining status a groups are framed.

In current framework after all the joining customs have been finished the competitors should fill the association's application structure, Bank Advisory structure. These things were been recorded through desk work. These paper works are been called as ace information and are been sent to HRS office for further preparing. There might be where a candidate's structure would get lost and the candidate would confront issues to get a representative number as his structure has not achieved the HRS office.

B. Proposed System

Computerization of Trainee Life Cycle application is been created to supersede issues in the current framework. This Application goes for overseeing subtleties of schools, applicants, specialists of organization and to robotize current manual procedure with assistance of mechanized types of gear and undeniable PC applications to satisfy the organization's necessities so their significant data can be put away for an extensive stretch of time and kept up securely. It is the ideal device to give great execution and fulfillment to the customers. This application computes cushion rate, standard for dependability of every inside in foundation and presentations the outcome to the client on the screen. Our applications give adaptability to change the chose focuses, specialist if a client wishes to roll out any improvements .This application consequently makes various letters of each inside with this present HR's need to simply send the sends individually to specific focuses. This limits the human exertion of composing each letter for each inside. Framing bunch has been done greatly simple, administrator needs to transfer the exceed expectations report that contains rundown of chose understudies and our application will effectively shape groups in a base time necessity.

This device additionally helps in keeping up hopefuls joining status having a place with their separate groups. On the off chance that some of understudies are not going to join the association, at that point our application is sufficiently adaptable to include understudies from other group so the base number of understudies required for joining procedure can be met. Or maybe filling application frames by recording; our application empowers possibility to fill these structures carefully. These structures are been spared in database and kept verified.

Later these structures are been sent to HRS division with the goal that every applicant can get their own worker numbers. At that point applicants are been doled out to their separate divisions alongside their work shifts. Later these applicants are given their joining dates. This is the date that they'll begin working in the organization. On the starting days of a competitor as a learner he needs to experience an acceptance of the association. Enlistment is only an Organizational examination. There three 2 levels in Induction, Level 0 and Level 1. Both of the dimensions allude to
After the grounds drive, the chose understudies data was recorded in an exceed expectations sheet. These understudies will get an affirmation letter from organization on the day they got chose. These hopefuls will be called thrice before the joining day and their joining status will be noted down joining status was recorded in a paper subsequent to knowing the quantity of competitors that will go along with they needed to shape a bunch physically which is again tedious assignment. Our application is been built up every one of these issues and limit human exertion via computerizing however much procedures as could reasonably be expected.

III. SYSTEM DESIGN

A. System Perspective

Framework point of view is joining each viewpoint and conduct of an application all in all with regards to its condition. It clarifies the correspondence between each part of a framework. It accentuates a framework in general. It delineates the connection between the elements of a framework part’s that depends on their connection with each other. It clarifies how this application is organized for the handling of information and characterizes the general conduct of the application.

B. System Architecture

The figure above demonstrates the total working and engineering of the framework. This application has two levels, i.e Admin and understudy. All in this entire framework is a three level engineering framework.

First Tier – This level in the framework is User Interface. The User Interface in our application is straightforward and can give access to clients to normal highlights. This UI was worked to keep multifaceted nature to least however much as could be expected. It’s through UI an administrator or understudy can speak with the gadget.

Second Tier – This level in the framework is application level. Application level exists between UI and database. It is utilized to speak with User interface, gets the data from UI and passes on to Database. It goes about as center layer between UI and the Database. This level procedure the data gotten by UI and after that stores it in Database. Furthermore, when a client needs to see that information it additionally gets required information from Database and show it to client in UI.

Third Tier - The Third level of framework is the Database. It is the storehouse of the information. It is the place all the prepared information is been put away. It is a gathering of report, questions, patterns and different components. Information is put away and furthermore recovered from the database to show to client.

In this application there are two clients. Initial one is administrator and the other one is Candidate. The Admin/Candidate enters or solicitation information from UI. The Web API process the data given to it and presentations data to client separately by recovering information from the database. In the event that any information is changed by clients, at that point it is again handled by the API and stores it in database.
C. Context Perspective

Context diagram is the overall view of a system. The initial level of data flow diagram is called as context diagram. It explains the complete working and functionalities required by the external entities. It can be subdivided into a number of data flow diagrams displayed in a hierarchy. Context diagram is used to understand every entities and their interaction with each other in a system. Context diagram are typically included in a requirements documents. Diagram does not store any data in it. It is just a graphical representation of flow of system processes.

Admin has complete privileged over the application. He can access every candidate data, modify it, delete it or even add a new data. Admin manages all the details of a candidate. Admin is the person who decides which Centre’s are to be visited and also he is the one who forms the cluster. After forming cluster he calls every candidate and asks them to join the company by assigning them a particular date. After candidates have joined, they have to fill the application forms. Its admin responsibility to keep these applications safe and secure. Later these applications are sent to HR department where each candidate is been assigned with employee id, their department and work shifts. Candidate’s job is to fill the application form, bank advisory form and complete rest of the formalities. A candidate can apply for a leave through our application and also he can keep track of his attendance status through our application.

Above graph plainly demonstrates various elements of the framework and the correspondence between them. Initially, Administrator needs to sign in to framework by administrator id and secret word. Application's entrance can be increased just if administrator gives right client id and secret word. At that point administrator enters the quantity of required contender for that specific year.

Our application will figure cradle rate, joined rate and maintenance utilizing the information given by administrator. These rates are been determined out of sight utilizing 3 years of past information. In the wake of figuring a rundown is been shown to administrator as per the most astounding joined rates of each schools/focuses. Administrator chooses focuses to which his organization will visit for a grounds drive.

Following this is the determination of dates to visit and furthermore making an archive containing subtleties of the specialists visiting the grounds drive. This archive is sent to make a trip work area through mail to settle travel courses of action. Administrator has simply to choose name of specialists and submit in our application, archive of specialists will be consequently created utilizing specialists data that is put away in database.

After the grounds drive HR's transfer an exceed expectations record that contains nitty gritty data of chose understudies, understudies who are put on hold and furthermore understudies who have been rejected. This information is kept securely in our application.

After this group is shaped utilizing that exceed expectations record. Bunches are framed by consolidating the rundown of understudies of two unique focuses so to call these understudies without a moment's delay amid the joining day.

Rests of the benefits of administrator are

• updating bunches
• Add or expelling understudies from bunch
• Store hopefuls joining status
• Record understudies participation amid their classes.
• Uploading and putting away information of understudy’s participation, their advancement all through their span in organization.

IV. DETAILED DESIGN

Itemized configuration is the execution part of the proposed framework where it portrays about the structure part of the framework. It incorporates the entertainers, use cases, functionalities and classes associated with the undertaking. It likewise includes the utilization case graph, grouping diagram, movement chart and the database chart of the proposed framework.

A. Sequence Diagram

Arrangement chart of this application demonstrates how the various items in this application associate with one another. How the data is traded between the objects of this framework is obviously comprehended. The succession graph of this application unmistakably demonstrates the progression of data between the items in the framework. In the beneath succession outline elements of the framework and the correspondence between them is clarified. Initially Administrator needs to login to framework utilizing the given login qualifications. Application access can be increased just if administrator gives right client id and secret key. At that point administrator enters the quantity of required possibility for that specific year. Our application will ascertain cradle rate, joined rate and maintenance utilizing the info given by administrator. These rates are been determined out of sight utilizing 3 years of past information. In the wake of figuring a rundown is been
shown to administrator as per the most elevated joined rates of every school/focuses. Administrator chooses focuses to which his organization will visit for a grounds drive. After the grounds drive HR's transfer an exceed expectations report that contains nitty gritty data of chose understudies, understudies who are put on hold and furthermore understudies who have been rejected. This information is kept securely in our application. After this bunches are shaped utilizing that exceed expectations report. Groups are framed by consolidating the rundown of understudies of two distinct focuses so to call these understudies on the double amid the joining day.

The following is taking understudies participation amid their classes, transferring and putting away information of understudy's participation, their advancement all through their term in organization. Sequence Diagram for Trainee Understudy must login first to fill the applications structure. These application shapes are been utilized to make ace information. This ace information is made to store the data of understudies. This ace information contains understudies close to home information, training subtleties, interests, and family data. This ace information is sent to HR division to get worker id to a hopeful. On the off chance that an issue is found in ace information, at that point competitors would not get their worker id. Our application can likewise produce leave letters for applicants. on the off chance that an understudy is intending to disappear from work, at that point he/she can make leave letters in our application.

Understudies are been made to go to authoritative examination classes ever week. These classes clarifies everything about how that association functions, what is their motivation, for what reason are they fabricating their items, and considerably more subtleties of them. Amid this period HR should gauge participation of the competitors who go to these classes. This participation is been transferred in our application by administrator. Understudies can ready to monitor their participation by signing in and seeing their participation status.

V. IMPLEMENTATION

![Fig. 4 Home Page](image1)

![Fig. 5 Joining Status](image2)

![Fig. 6 Attendance](image3)

VI. RESULT

The primary point of utilization is to lessen all administrator works, to conquer the manual work process by computing the cushion rate, joined rate and the fulfillment rate and these counts out of sight and demonstrates the results on a site page and it is truly adaptable to change chosen focuses, specialist and dates. The bunch for the chose understudies from various focuses will be made and fix the joining dates for those focuses and furthermore adaptable to change the division of the learners, if the hopeful isn't performing up to office's desire. The administrator reserves all privileges to change the division of the learner.

VII. CONCLUSION

This Paper is formed for the organization use since they are keeping up every one of the students records in the exceed expectations sheets, there is an opportunity of missing records and there is an issue for ascertaining all the Buffer Rate, Joined rate and Retention Rate and the
learners are filling there subtleties in the physically in the structures, this turns out to be again a manual work for the administrator to make the ace information by gathering every one of the information of the students. So the organization thought of creating "Automation of Trainee Life Cycle" to store every one of the records alright for the future use.

B. Future Enhancement

They are checking all the qualification criteria physically, before joining all conventions of the archive confirmation is done physically, and refreshed into the application. So they thought of consolidating scanner to the application with the goal that they filter every one of their records and append that to the application while filling the application structure.

They are directing the classes, this isn't appended to the application since this can't be joined to the application yet they can lead the test in this application. Anyway students can login to see the outcome in the application and they can step through the examination in the application itself, with the goal that crafted by the administrator will diminish. Also, they are leading the two unique tests for the learners one is from the office side, another is from preparing office, later they are joining both the outcomes and they are refreshing it in the application. On the off chance that this is incorporated into this application they can take up both the test in the application and join the two outcomes to get the normal and show the outcomes. This encourages the administrator to do practically everything physically.

ACKNOWLEDGMENT

The authors would like to thank the editor, mysterious reviewers for their valuable suggestions that appreciably improved the quality of this paper.

Finally also thankful to Parents, Friends, BMS Educational Trustees, Principal and HoD Department of MCA, BMS Institute of Technology & Management, Yelahanka, Bengaluru-560064, Karnataka, India.

REFERENCES

Vertical-and-Topical-Summit-Alaska-2018-Call-for-Papers-v3
lifecycle/
cycle-management
6. https://bizfluent.com/info-8132024-disadvantages-manual-
accounting.html
8. https://ideal.com/3-ways-recruitment-automation-will-change-
recruiting-forever/
future-of-recruitment
10. http://www.selectinternational.com/blog/4-reasons-why-an-
automated-hiring-process-will-help-your-company

AUTHORS PROFILE

Prof. Shivakumara T., working for Department of MCA, BMS Institute of Technology and Management, Bangalore as an Assistant Professor since 2008. He has completed his masters' degree (Master of Computer Applications) in 2007. Teaching the masters’ degree computer applications courses prescribed by Visvesvaraya Technological University (VTU). Actively involved in teaching-learning process, as an outcome of it he was able to publish 3 text books, laboratory manuals, learning materials in coordination with co-authors in the same field. He has published few national conference papers and journals. His current research focuses on data and information security - data leakage prevention. He has been engaged to create awareness on cyber security-cyber safe Karnataka in association with cyber security center of excellence, Government of Karnataka, to school and college students. He is the member of ISTE chapter. Currently, pursuing PhD in Computer Applications under VTU.

Prof. Muneshwara M S received B.E. and M. Tech from VTU in 2005 and 2011 respectively. From 2006 to present affiliated to BMS Institute of Technology and Management as Assistant Professor at Department of CS&E, actively involved in research area like Distributed Network security and Cloud Computing. Several papers published in reputed Journals and conferences. Currently, pursuing PhD in Computer Science under VTU.

Dr. Rajshhekar M. Patil is a Professor in the Department of Computer Science and Engineering, in the School of Engineering and Technology, CMR University. He served as Principal in an Engineering College affiliated to Jawaharlal Nehru Technological University, Hyderabad. He has worked in the capacity of Assistant professor to professor and shouldered responsibilities from HOD to Principal and Director. He has also worked as a customer support engineer and handled many clients. His area of research interests are computer networking, information and network security, cryptography, data communication and networking and Network Data Mining etc. He has published several research papers in reputed Journals. He holds B.E. and M.Tech. in Computer Science from Guilbarga University and Visvesvaraya Technological University respectively. He obtained Ph.D. in Computer Science from Dr. MGRRI, Chennai. He is a recognized research guide in Visvesvaraya Technological University, Karnataka and is a reviewer of many national and international journals and conferences. He comes with an experience of over two decades in teaching and was working with Guru Nanak Institute of Technology prior to joining CMR University.

Prof. Nirupama, B K received MCA degree from VTU in 2010. From 2011 to present affiliated to BMS Institute of Technology and Management as Assistant Professor at Department of MCA actively involved in research area like Network security paper's published in reputed journals and conferences. Currently pursuing PhD in Computer Science under VTU.

Dr. Chethan, A S received M.Sc., Mathematics from Bangalore University and Doctorate Degree from VTU in 2013 respectively. From 2003 to present affiliated to BMS Institute of Technology and Management & Presently working as Professor at Department of Mathematics, actively involved in research area like Fluid Mechanics & Computer Science. Several papers published in reputed International/National Journals and conferences. Lifetime Member of Professional bodies like ISTE, ISTAM etc.