Network Based Payroll System Application

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ABSTRACT

Organizations or any Industry employs full-time and casual (contractual) academics; therefore Payroll System plays an important role whether it is a business organization or any industry or educational academics. Employees in Personal Department use the payroll system to maintain employee's information, manage leaves and make payment to the academics every fortnight. The Payroll system can add, delete and update employee's salary details. It can manage annual leave and long-service leave as well as record any sick leave. The system pays each academic the correct amount, on time and the payment method requested by any academics.

Keywords: Visual Studio, MySQL, payroll, Crystal Report

INTRODUCTION AND OVERVIEW

Payroll system application is providing an option to generate the salary automatically every month. This software application also equipped with to enter the attendance of each employee in the institute, it helps them to track each employee attendance, based on this we can generate the salary. The application is built to generate individual pay slip and summary of the payroll. It also has option to generate the report for yearly salary and bank statement of an individual and they can take the printout of salary slip.

Proposed system overcomes the problems of existing system. Where the payroll is managed by only one desktop system and every time new database is generated due to it's overriding the same values for some fields while calculations and data redundancy occurred in system.

Network based payroll system is using web interface and it allow employees of the Account Department to access and update payroll from different desktop system. Addition to this it can send email to every employee who contains salary slip and the bank statement if needed. All the personal information of the employee will be updated once in the year, so that they

don't need to fill the information at every time while salary slip being generated. The system only take employee ID as input to calculate pay of an individual, if there is any leave taken by him/her, the accountant only need to enter the total present days of his/her to calculate the salary of that month.

The system provides very easy access and has user friendly interface, even if the user doesn't have any technical knowledge about computer system.

EXISTING SYSTEM

Existing system was created in 2004, developed by using visual basic6 for front end and MS Access for backend. It is software to generate salary slip for individual. This software application is operated on single desktop system in Windows XP. This system is not web based therefore it doesn't provide web interface, email facility and security to the payroll.

All the inputs and personal information is filled up manually only the deductions and complex calculations are done automatically if the default values are not changed for calculation process. If the default values are not libel for salary generation, then accountant person need to calculate salary by own using those new values. It consumes lots of time to re-enter every detail for individual and requires rechecking of each field for accuracy of values calculation and summation. They need to enter the employee's ID, name, current month or particular month and year, total present days, basic salary to generate salary slip of individual employee. For each employee's absentee during particular month, accountant has to analyse attendance of all the employees and make changes in monthly report, analyse CL registry then again re-enter entire data and calculate the salary.

OBJECTIVE

The main objective of this project is to develop a payroll system application for an institute with web interface and more user friendly environment. It also allows the user to autofill the required information to make it more efficient. This system introduces features like autofill and email salary slip which are not present in existing Payroll system.

IMPLEMENTATION DETAILS

Our implementation of Network based Payroll System Application is in Visual Studio12 [1] and MySQL [2] database resides on local network. VB12 is providing very user friendly environment. The accountant has easy access to payroll but only for operation like add,

delete, update and generating salary. This application gives security to database where only authorized person has the access to the database. Accountant cannot enter into database and source code of the system. If they want to do any changes in stored value they can do it by using the Update function, where they can update the data of employees. The following features are involved in our implementation -

Crystal reports

Crystal Reports is a business intelligent application. It is used to design and generate reports from wide range of data source [3]. The Crystal Reports [4] is an important part of our project. Using Crystal reports the salary slip, summary and bank details are generated.

Crystal reports give the facility to fetch the wide range data and generate the report with standard format.

When salary is calculated of all employees then their salary slip is generated and emailed to them, also one copy of salary slip of individual is get stored in systems folder automatically.

Crystal Report gives the ease to save and convert the report with .pdf, .xls, .docx, etc. extensions.

Autofill

This is the feature of our payroll System application which is actually fulfiling the statement of user friendly and less time consuming system. In autofill the previous salary details are carry forward in current month's details. If any employee is absent in last month but full present in current month or vice versa then only changes can have made in the present day column and just click on recalculate then according to the current month the salary gets calculated within a moment. All the data not needed to fill every time it is fetch by the system automatically.

Default Value Setting

In our system the month and year is fixed as default for particular month and year, such as its not needed to type month and year for every time to calculate the salary of next employee.

Although some incremental values are present in calculation of salary and tax according to the standard format. If these values get changed, then the whole calculation is affected. This can be the drawback of our system; therefore, we introduce the default value setting. When

such values get changed in future then they can be set from this part of system without affecting the source code of the system in easy manner.

CONCLUSION

Here we presented an application for an institute called as Payroll System Application. The purpose of this Payroll System is to provide a user friendly and easy access which in turn will provide the efficiency to generate salary of employees in less time with accurate results.
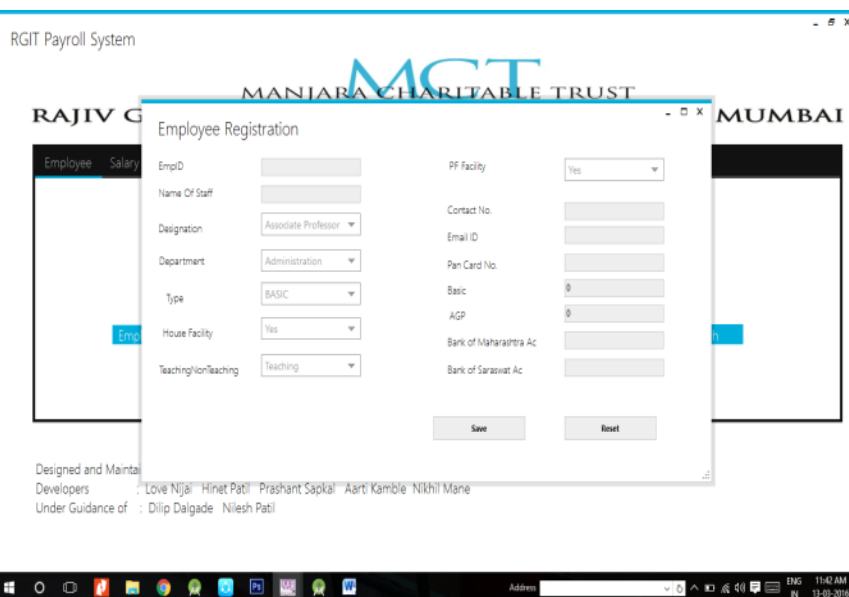
RESULTS

Figure 1: Home Screen

Figure 2: Employee registration
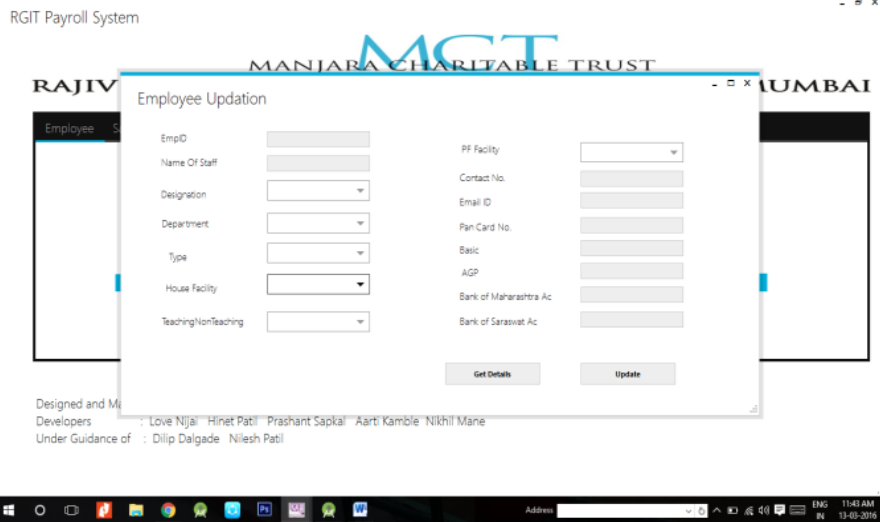
Figure 3: Employee detail updation
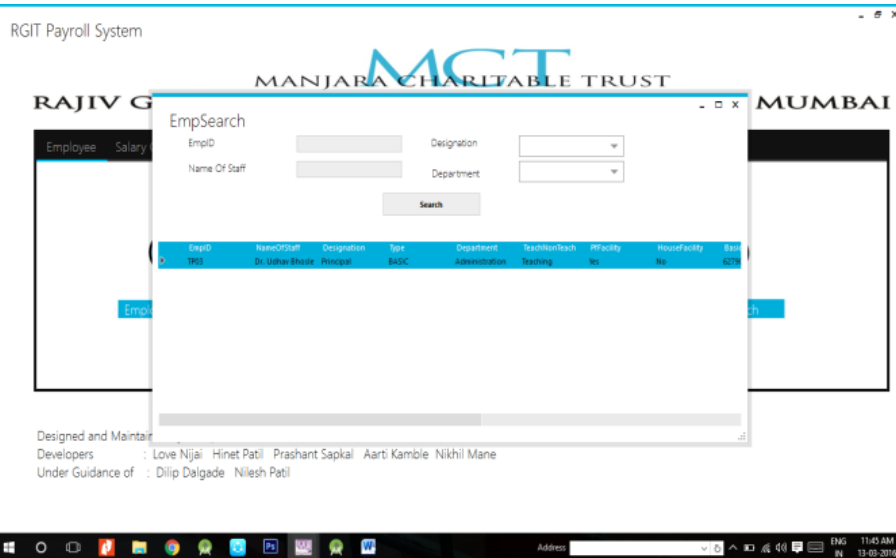
Figure 4: Employee search
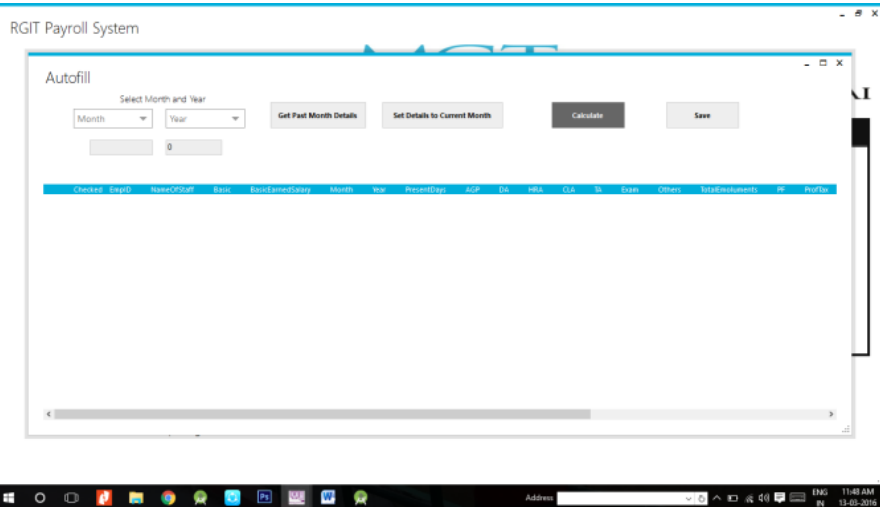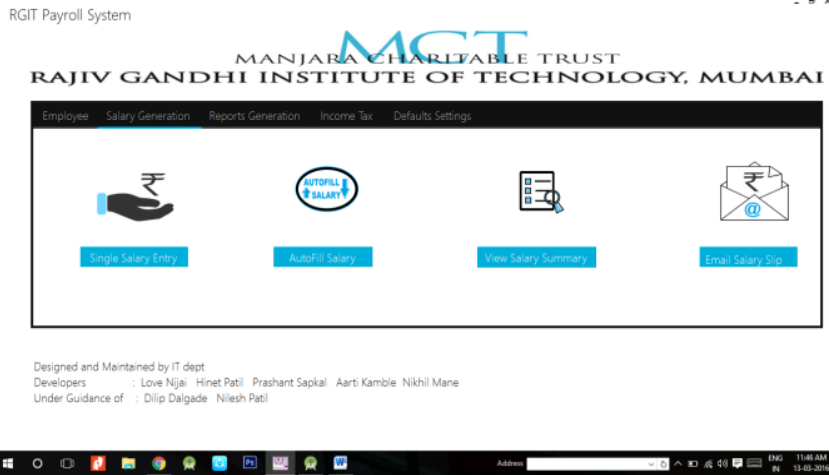

Figure :5 Autofill salary

Figure 6: Salary Generation
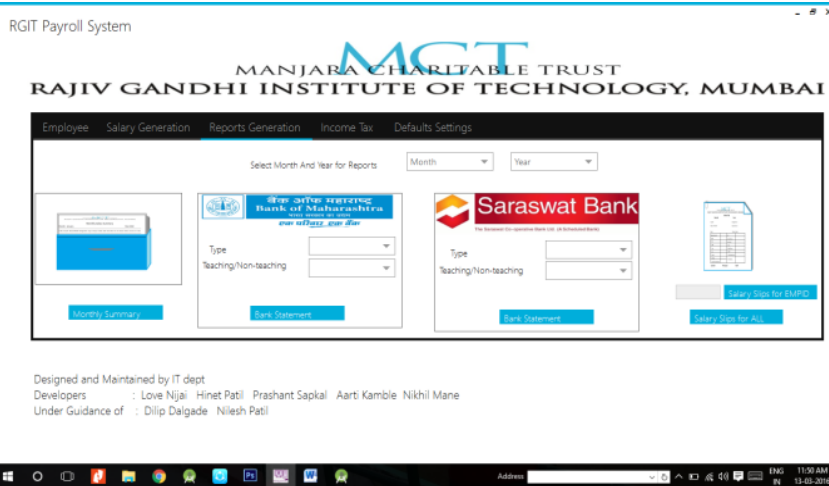
Figure 7: report Generation
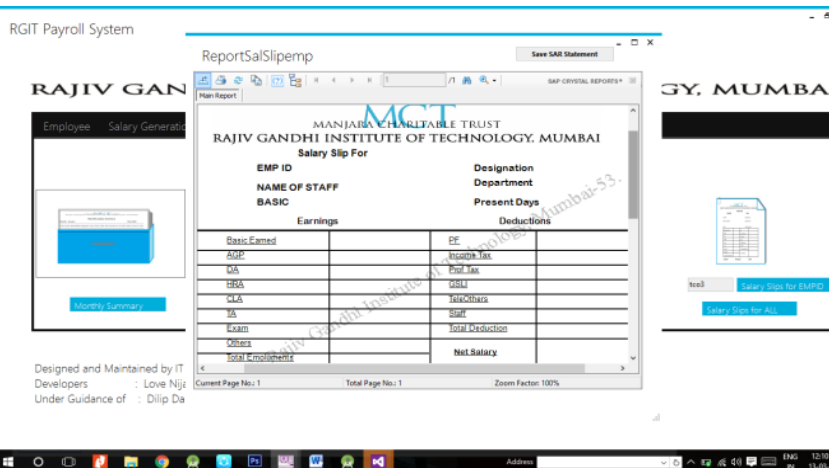
Figure 8: Salary Slip
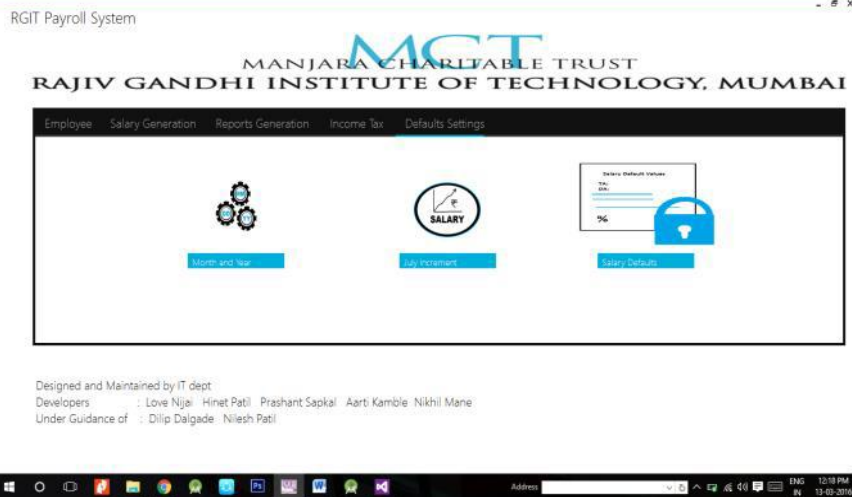
Figure 9: Default settings

REFERENCES

[1] https://www.visualstudio.com/

[2] https://www.mysql.com/why-mysql/windows/visualstudio/.

[3] http://www.crystalreports.com/business-intelligence-software/.

[4] http://scn.sap.com/community/crystal-reports.