Fall 2014

Payroll Management System

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Governors State University

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PAYROLL MANAGEMENT SYSTEM

BY

JHANSIBHARATHI MADAVARAPU

MASTERS PROJECT/GRADUATE PROJECT

SUBMITTED IN PARTIAL FULFILLMENT OF THE REQUIREMENTS

THE DEGREE OF MASTER OF SCIENCE,
WITH A MAJOR IN COMPUTER SCIENCE

GOVERNORS STATE UNIVERSITY
UNIVERSITY PARK, IL 60484

FALL 2014
Payroll Management System

Software Requirements and design Document

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1.0 Introduction

1.1 Purpose:

Payroll Application has been designed to for the purpose of maintaining details of various allowances and deductions that need to be given to the employees of the organization. Also, it generates the salary Sheet of the employees of the organization that assists the accounts department in many ways. Payroll is a window Application which is used to maintain the Employee details of the organization or concern in different places; this provides each employee details with unique information.

Admin plays the main roll to maintain the activities of the employees, client part takes lesser activities, and this system is user friendly GUI based application that will automate the day to day activities of the employees who are working in the concern.

An application for completely automating the different activities of the various departments or sections of the employees is processed. Payroll provides database activities each and every records of the employee are maintained in the database, so all the data are retrieved easily and faster. As the means of administrator point of view, the admin person have the full rights to make decisions like who are all the users and creating the statuses, views and modify

1.2 Social and Economic Benefit:

This Portal helps organization to manage financial records of employees.

2.0 Overall Description

2.0 Scope of the Software enhancement

These changes will improve the ease of use and functionality available to instructors.
2.1 Available Sources

- The International student Portal is a web application that is available from any PC that has internet access.
- The software will be deployed to the Cloud (via Google server).
- There will be no additional hardware.
- This web application is written in C sharp. All extensions of this application should be written in the same language for maintainability.
- Required Development Tools

Security would stay consistent with the security already in place for this application.
3. Architecture diagram:
4. Interface screens
6.0 Interface Requirements
Payroll Management System

Administrator Screens
Payroll Management System

Logged in as Administrator

Welcome to Administrator!
### Payroll Management System

**Employees**

<table>
<thead>
<tr>
<th>Employee ID</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
<th>Designation</th>
<th>Level</th>
<th>Username</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ram</td>
<td>9343594654</td>
<td><a href="mailto:ram@gmail.com">ram@gmail.com</a></td>
<td>Asst. Manager</td>
<td>1</td>
<td>ram</td>
<td>ram123</td>
</tr>
<tr>
<td>2</td>
<td>Krishna</td>
<td>9934873647</td>
<td><a href="mailto:krishna@yahoo.com">krishna@yahoo.com</a></td>
<td>Junior Clerk</td>
<td>3</td>
<td>krishna</td>
<td>krishna23</td>
</tr>
<tr>
<td>4</td>
<td>Laxman</td>
<td>9046033343</td>
<td><a href="mailto:laxman@hotmail.com">laxman@hotmail.com</a></td>
<td>Marketing Manager</td>
<td>2</td>
<td>laxman</td>
<td>laxman23</td>
</tr>
</tbody>
</table>
## Payroll Management System

Home  Employees  Log Out

### Employees

<table>
<thead>
<tr>
<th>Employee ID</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
<th>Designation</th>
<th>Level</th>
<th>Username</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ram</td>
<td>9348594634</td>
<td><a href="mailto:ram@gmail.com">ram@gmail.com</a></td>
<td>Asst. Manager</td>
<td>1</td>
<td>ram</td>
<td>ram123</td>
</tr>
<tr>
<td>2</td>
<td>Krishna</td>
<td>9934873847</td>
<td><a href="mailto:krishna@yahoo.com">krishna@yahoo.com</a></td>
<td>Junior Clerk</td>
<td>3</td>
<td>krishna</td>
<td>krishna123</td>
</tr>
<tr>
<td>4</td>
<td>Laxman</td>
<td>9048333343</td>
<td><a href="mailto:laxman@hotmail.com">laxman@hotmail.com</a></td>
<td>Marketing Manager</td>
<td>2</td>
<td>laxman</td>
<td>laxman123</td>
</tr>
</tbody>
</table>

[Logged in as Administrator]
Payroll Management System

Are you sure to delete this employee?

Yes  No
Manager Screens

Payroll Management System

Login

User Name: Manager
Password: **********
Submit
# Payroll Management System

[Logged in as Manager]

**Employees**

<table>
<thead>
<tr>
<th>Employee ID</th>
<th>Name</th>
<th>Phone</th>
<th>Email</th>
<th>Designation</th>
<th>Level</th>
<th>Username</th>
<th>Password</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Ram</td>
<td>9346594654</td>
<td><a href="mailto:ram@gmail.com">ram@gmail.com</a></td>
<td>Asst. Manager</td>
<td>1</td>
<td>ram</td>
<td>ram123</td>
</tr>
<tr>
<td>2</td>
<td>Krishna</td>
<td>99346876847</td>
<td><a href="mailto:krishna@yahoo.com">krishna@yahoo.com</a></td>
<td>Junior Clerk</td>
<td>3</td>
<td>krishna</td>
<td>krishna23</td>
</tr>
<tr>
<td>4</td>
<td>Laxman</td>
<td>90460333343</td>
<td><a href="mailto:laxman@hotmail.com">laxman@hotmail.com</a></td>
<td>Marketing Manager</td>
<td>2</td>
<td>laxman</td>
<td>laxman23</td>
</tr>
<tr>
<td>Message ID</td>
<td>Date and Time</td>
<td>From</td>
<td>Message</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>------------</td>
<td>-----------------</td>
<td>------</td>
<td>---------</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>17</td>
<td>4/19/2010 8:38:07 PM</td>
<td>Ram</td>
<td>hello</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
## Payroll Management System

[Logged in as Manager]

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Date and Time</th>
<th>To</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>19</td>
<td>4/19/2016 8:25:22 PM</td>
<td>Ram</td>
<td>ur salary is increased about Rs. 2,600/- from the next month.</td>
</tr>
<tr>
<td>18</td>
<td>4/19/2016 8:24:54 PM</td>
<td>Krishna</td>
<td>do received your salary?</td>
</tr>
<tr>
<td>Payroll ID</td>
<td>Month and Year</td>
<td>Generated On</td>
<td>Basic Salary</td>
</tr>
<tr>
<td>-----------</td>
<td>----------------</td>
<td>--------------</td>
<td>--------------</td>
</tr>
<tr>
<td>3</td>
<td>March 2010</td>
<td>4/19/2010 6:24:43 PM</td>
<td>12000.00</td>
</tr>
<tr>
<td>4</td>
<td>January 2010</td>
<td>4/19/2010 6:24:59 PM</td>
<td>12000.00</td>
</tr>
</tbody>
</table>
Payroll Management System

Generate Payslip:

Employee: Ram
Month: March 2020
Basic Salary: 12000.00
No. of Leaves: 5
Salary Per Day: 387.10
Deduction for Leaves: 1935.48
Net Salary: 10064.52

Submit
Payroll Management System

Generate Payslip:

Employee: Ram
Month: February 2020
Basic Salary: 12000.00
No. of Leaves: 0
Salary Per Day: 428.57
Deduction for Leaves: 0
Net Salary: 12000.00

Submit
Payroll Management System

Generate Payslip:

Employee: Ram
Month: February 2020
Basic Salary: 12000.00
No. of Leaves: 2
Salary Per Day: 428.57
Deduction for Leaves: 857.14
Net Salary: 11142.86

Submit
# Payroll Management System

Logged in as Manager

<table>
<thead>
<tr>
<th>Payroll ID</th>
<th>Month and Year</th>
<th>Generated On</th>
<th>Basic Salary</th>
<th>No. of Leaves</th>
<th>Salary Per Day</th>
<th>Deduction For Leaves</th>
<th>Net Salary</th>
<th>Print</th>
<th>Delete</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>March 2010</td>
<td>4/19/2010 6:34:43 PM</td>
<td>12000.00</td>
<td>5</td>
<td>367.10</td>
<td>1935.48</td>
<td>16064.52</td>
<td>Print</td>
<td>Delete</td>
</tr>
<tr>
<td>6</td>
<td>February 2010</td>
<td>4/19/2010 8:27:13 PM</td>
<td>12000.00</td>
<td>2</td>
<td>426.57</td>
<td>857.14</td>
<td>11142.86</td>
<td>Print</td>
<td>Delete</td>
</tr>
<tr>
<td>4</td>
<td>January 2010</td>
<td>4/19/2010 6:34:59 PM</td>
<td>12000.00</td>
<td>1</td>
<td>367.10</td>
<td>387.10</td>
<td>11612.90</td>
<td>Print</td>
<td>Delete</td>
</tr>
</tbody>
</table>
Company name here

Hyderabad

For the Month of February 2010

Employee ID: 1

Name: Ram

Phone: 9348394834

E-Mail: ram@gmail.com

Designation: Asst. Manager

Level: 1

Dated On: 4/19/2010 8:27:12 PM

Basic Salary: 12000.00

No. of Leaves: 2

Deduction for Leaves: 857.34

Net Salary: 11142.66
Employee Screens

Payroll Management System

Login

User Name: [Field]
Password: [Field]
Submit
Welcome to Kam!!
<table>
<thead>
<tr>
<th>Message ID</th>
<th>Date and Time</th>
<th>To</th>
<th>Message</th>
</tr>
</thead>
<tbody>
<tr>
<td>17</td>
<td>4/19/2016 8:38:07 PM</td>
<td>Manager</td>
<td>hello</td>
</tr>
</tbody>
</table>
Compose Message:
To: Manager
Message: thanx sir!
Database Design:

Employee:
- EmployeeID
- Name
- Phone
- Email
- Designation
- LevelID
- Username
- Password

Message:
- MessageID
- Date
- MessageFrom
- MessageTo
- Message1
- EmployeeID
- Active

Payslip:
- PayslipID
- EmployeeID
- Month
- MonthName
- Year
- GeneratedOn
- BasicSalary
- NoOfLeaves
- SalaryPerDay
- DeductionForLe...
- NetSalary
7.0 Operational Requirement

Security, Availability, Reliability, Recoverability

Describe the attributes of each of the topics listed

- Security - There is already security in place for this application. All changes made here are to conform to those same standards.

- Availability - The system should be available 24/7.

- Reliability - The system needs to be reliable for all end users i.e., customers.

- Recoverability - If the web application fails, a user can re-login and all data will reappear as it is being stored on the db.