**Chapter 4**

RESULTS AND DISCUSSION

This chapter contains the project description, the project strusture, the project capabilities and limitations, test results, and the project evaluation.

**Project Description**

The system developed is Payroll System for Government Institutions using Facial Recognition. The system generates a reliable paysheets and payslips of employees which are automatically computed using the timelog recorded by the daily time record module of the system through facial recognition. It was developed using Sublime Text 3, WampServer and Microsoft Visual Studio 2010.

**Project Structure**

**Project Capabilities and Limitations**

The following are the capabilities of the system:

* The system records the daily time in and time out of every employee through the DTR module of the system using the facial recognition.
* The system lets every employee to view his/her daily attendance by accessing his/her account in the payroll system.
* The system generates a pay slip based on the regular payroll which means that the system only acknowledges the hours worked of the employee within the office hours.
* Every pay slip the system generates are stored so the employees could view their previous pay slips as well as the deductions history the organization deducted every cut off and monitor the remaining leave of the employee.

The following are the limitations of the system:

* The system’s information is only available to those who are within the scope of the network of the organization.
* The system prohibits every employee to log into the DTR when it is out of office hours of the organization.
* Every account has an access level which limits the things employees can do using their account.
* The system is only applicaple to government institutions.

**Test Results**

Prior to evaluation, the system has gone through different tests to determine if its features were successfully functioning. Table 4 summarizes the results of the tests on funcionality.

**Table 4** – Test Results

|  |  |
| --- | --- |
| Module | Test Results |
| *Employee’s Module* | |
| Time In/Out | Employee successfully timed in and timed out of the dtr with the right time data. |
| Manage Employee Profile | Employee successfully updated his employee profile. |
| View Attendance Record | Employee successfully viewed his attendance record of the day. |
| View Payslip | Employee successfully viewed his payslip records. |
| View Deductions/Loans Record | Employee successfully viewed his deductions/loans records. |
| *HR Personnel Module* | |
| Time In/Out | HR personnel successfully timed in and timed out of the dtr with the right time data. |
| Manage Employee Profile | HR personnel successfully updated his employee profile. |
| View Attendance Record | HR personnel successfully viewed his attendance record of the day. |
| View Payslip | HR personnel successfully viewed his payslip records. |
| View Deductions/Loans Record | HR personnel successfully viewed his deductions/loans records. |
| System Maintenece | HR personnel successfully updated the employee’s profile, the department table, the position table, the holiday table and the customization of the system. |
| Filing of Employee’s Leave | HR personnel successfully filed an employee’s approved leave. |
| Filing of Employee’s Deduction/Loan | HR personnel successfully filed an employee’s deduction and loan. |
| *Payroll Personnel Module* | |
| Time In/Out | Payroll personnel successfully timed in and timed out of the dtr with the right time data. |
| Manage Employee Profile | Payroll personnel successfully updated his employee profile. |
| View Attendance Record | Payroll personnel successfully viewed his attendance record of the day. |
| View Payslip | Payroll personnel successfully viewed his payslip records. |
| View Deductions/Loans Record | Payroll personnel successfully viewed his deductions/loans records. |
| Generate Paysheet | Payroll personnel successfully generated a paysheet for the cut-off. |
| Generate Payslip | Payroll personnel successfully generated a payslip for the month. |

**Project Evaluation**