**Human Resource Information System for Department of Interior and Local Government of the Cordillera Administrative Region (DILG-CAR)**

An IT Project Proposal

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IT 411

by

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**Abstract**

Offices in general has difficulties in monitoring, tracking and updating different files and documents mostly offices that still utilizes manual processes hence requires effective information management. Information Management guarantees information can be accessed easily and let the users manipulate, track and monitor files and documents fluently. Since the Human Resource and Records Section (HRRS) under the Finance & Administrative Division (FAD) of the Department of Interior and Local Government Cordillera Administrative Region (DILG-CAR) face these difficulties in keeping manual records and managing paper-based records, the developers will create a web application that helps the management and monitoring of files and documents of the said government section.

The developers will utilize the methodology Evolutionary-exploratory Model which ensures the understanding of the requirements, the steady progress of the proposed system and the constant feedback of the client which helps the developers to produce the desired product.

The Human Resource Information System (HRIS) that will be developed for the HRRS will assist the employees in managing and tracking specifically the Personal Data Sheet (PDS), Leaves, Service Record, Notice of Step Increment (NOSI), Notice of Salary Adjustment (NOSA) and updating of Plantilla. Also, some manual processes will be computerized to maximize the effectiveness of the system.

**Table of Contents**

**ABSTRACT …………………………………………………………………………… ii**

**LIST OF FIGURES ………………………………………………………………….. v**

**LIST OF TABLES …………………………………………………………………… vii**

**CHAPTER 1: INTRODUCTION**

1.1 Context of the Study ………………………………………………………

1.2 Background of the Study …………………………………………………

1.3 Statement of the Objectives ………………………………………………

1.4 Scope of the Project ………………………………………………………

1.5 Significance of the Study …………………………………………………

1.5.1 To the Employee ……………………………………………….

1.5.2 To the HRRS ……………………….…………………………..

1.5.3 To the DILG-CAR ……………………………………………..

**CHAPTER 2: METHODOLOGY**

2.1 Requirement Gathering …………………………………………………..

2.2 Quick Design ……………………………………………………………..

2.3 Building Prototype …………………………...……………………………

2.4 Customer Evaluation ……………………………………………………..

2.5 Refactoring Prototype …………………..………………………………..

2.6 Final Product ……………………………………………………………..

2.7 Data Gathering ……………………………………………………………

2.8 Design Tools ……………………………………………………………..

2.8.1 Entity-Relationship Diagram ………………………………….

2.8.2 Relationship Database Schema ………………………………..

2.8.3 System Architecture …………………………………………. .

2.8.4 Use Case Diagram …………………………………………….

**CHAPTER 3: OUTCOMES AND RESULTS**

3.1 Requirements Specification ……………………………………………..

3.1.1 Functional Requirements ………………………………………

3.1.2 Non-Functional Requirements …………………………………

3.2 System Architecture …………………………..…………………………

3.3 Use Case Diagram ………………………………………………………

3.4 Data Architecture

3.4.1 Entity-Relationship Diagram ………………………………….

3.4.2 Data Schema …………………………………………………..

3.5 Prototypes

3.5.1 Human Resource ………………………………………………

3.5.2 Employee ………………………………………………………

3.5.3 Super User ……………………………………………………...

**REFERENCES** ……………………………………………………………..

**APPENDIX**

Appendix A. Daily Time Record ……………………………………

Appendix B. Type of Leaves ………………………………………..

Appendix C. Type of Leaves ………………………………………..

Appendix D. Application for Leave Form …………………………..

Appendix E. Computation of Leaves Credit ………………………. ..

Appendix F. Computation of Leaves Credit …………………………

Appendix G. Service Record …………………………………………

Appendix H. Notice of Step Increment ……………………………...

Appendix I. Notice of Salary Adjustment ……………………………

Appendix J. Leave Ledger Card ………………………………………

Appendix K. Personal Services Itemization and Plantilla of Personnel..

Appendix L. Personal Data Sheet ……………………………………

Appendix M. Personal Data Sheet …………………………………..

Appendix N. Personal Data Sheet …………………………………...

Appendix O. Personal Data Sheet ……………………………………

**List of Figures**

Figure 1. HRRS Organizational Chart ……………………………………………………

Figure 2. Evolutionary-Exploratory Model ………………………………………………

Figure 3. System Architecture ……………………………………………………………

Figure 4. Use Case Diagram ……………………………………………………………..

Figure 5. Entity-Relationship Diagram …………………………………………………

Figure 6. Log In …………………………………………………………………………

Figure 7. Human Resource Administrative Officer Dashboard …………………………

Figure 8. Employees Account …………………………………………………………..

Figure 9. PDS Update …………………………………………………………………..

Figure 10. PDS Update ………………………………………………………………....

Figure 11. Pending Employee …………………………………………………………..

Figure 12. Pending Employee …………………………………………………………..

Figure 13. Employee ……………………………………………………………………

Figure 14. Employee Profile ……………………………………………………………

Figure 15. Generate Report Employee …………………………………………………

Figure 16. Edit Report ………………………………………………………………….

Figure 17. Edit Report ………………………………………………………………….

Figure 18. Reports ……………………………………………………………………...

Figure 19. Reports Certificate of Employment …………………………………………

Figure 20. Reports Certificate of Employment …………………………………………

Figure 21. Pending Leave ………………………………………………………………

Figure 22. Application for Leave ………………………………………………………

Figure 23. Plantilla …………………………………………………………………….

Figure 24. Plantilla Salary Grade ………………………………………………………

Figure 25. Previous Salary Grade ………………………………………………………

Figure 26. Addition of Salary Grade ……………………………………………………

Figure 27. Plantilla Division ……………………………………………………………

Figure 28. Editing of Plantilla ………………………………………………………….

Figure 29. Plantilla Re-assign ………………………………………………………….

Figure 30. Archiving an Employee …………………………………………………….

Figure 31. Sign-up ……………………………………………………………………..

Figure 32. Employee Dashboard ………………………………………………………

Figure 33. Profile ………………………………………………………………………

Figure 34. Personal Data Sheet ………………………………………………………..

Figure 35. Edit Personal Data Sheet …………………………………………………..

Figure 36. Application Leave Form …………………………………………………..

Figure 37. Leave Summary ……………………………………………………………

Figure 38. Service Record …………………………………………………………….

Figure 39. Notification ………………………………………………………………..

Figure 40. Super User Dashboard …………………………………………………….

Figure 41. Super User Dashboard ……………………………………………………..

Figure 42. Super User Dashboard ……………………………………………………..

Figure 43. List of Employee …………………………………………………………..

Figure 44. Employee Form ……………………………………………………………

Figure 45. Employee's Personal Data Sheet ……………………………………………

Figure 46. Plantilla Division ……………………………………………………………

Figure 47. Plantilla ……………………………………………………………………..

Figure 48. Pending and Approved Leaves ……………………………………………..

Figure 49. Leave Report ……………………………………………………………….

**List of Tables**

Functional Reguirements ………………………………………………………………

**Chapter 1: Introduction**

* 1. **Context of the Study**

Human Resource Information System (HRIS) is a system used to acquire, store, manipulate, analyze, retrieve and distribute information regarding a section like Human Resources by providing ease in compiling and finding certain documents in future need within the organization (Michael J. Kavanagh and Richard D. Johnson, 2018).

The proposed system focuses on Human Resource and Records Section (HRRS) of the Department of Interior and Local Government of Cordillera Administrative Region (DILG-CAR). HRRS is a section that handles the informational documents of the office which represents the memory of an organization providing tangible evidences of an organization activities and transactions, employee benefits, redeployment, termination, job description, information of employees and the likes.

DILG-CAR assists and advise the president promulgation of policies, regulation, programs, and projects to promote peace and order, close general supervision for local governments, promotion of autonomy and community empowerment with a consistent monitor of compliance thereof (DILG, 2013).  Furthermore, DILG-CAR functions in organizing and training primarily for the performance of police functions, a police force that is national in scope and civilian in character. With the use of the information maintains and handheld by the HRRS it strengthens the decision making of DILG-CAR, it will support on how DILG-CAR will act with regards to the matter.

* 1. **Background of the Study**

Under the Finance and Administrative Division (FAD) of DILG-CAR is the Human Resource and Records Section (HRRS) which handles the informational documents that is used in the organization. This informational documents contains information about employees, wages and salary, training and development, promotion, termination and many other information about personnel records. The HHRS specifically handles the Personal Data Sheet (PDS), Daily Time Record (DTR), Service Records, Notice of Step Increment (NOSI), Notice of Salary Adjustment (NOSA), Leave Ledger Card, Application for Leave of the employee and the Personal Services Itemization and Plantilla of Personnel (PSIPOP) or Plantilla of the DILG-CAR.

Most of the documents are still being handled manually and are still paper-based, also the HRRS is using productivity tools like Microsoft Word and Microsoft Excel to manually compute data, digitally store the information regarding about the documents, and generate, edit and update reports. Every employee has a Microsoft and Excel file that is named after them, the files are reports about that specific employee.

|  |
| --- |
| **FINANCE and ADMINISTRATIVE DIVISION (FAD)** |
| Chief Administrative Officer |
| Supervising Administrative Officer |

|  |
| --- |
| **HUMAN RESOURCE and RECORD SECTION (HRRS)** |
| Administrative Officer V (HRMO)  (HR Admin Officer) |
| Administrative Officer IV |
| Administrative Officer IV |
| Administrative Aide IV |
| Administrative Aide IV |

*Figure 1:* HRRS Organizational Chart

The following figure *(see Figure 1)* shows the structure of the HRRS in DILG-CAR and the relations and relative ranks of their positions.

These are the current process of HRRS in DILG-CAR on their forms are the following:

1. Processing of Personal Data Sheet (PDS) – The PDS form has (4) pages, this pages contains information of the employee’s personal information, family background, educational background, civil service eligibility, work experience, voluntary work, training program, and other information as entitled in the PDS form. If there are information needed to be change in the PDS, the employee must fill up a new PDS form and to be submitted to the HR Admin Officer. Each employee must submit their PDS annually whether there is a change or not, then the collected PDS will be part of the 201-Report that will be submitted to the Central Office by the HR Admin Officer. 201-Report contains all the information about an employee. As a result, the HRRS receives a large number of paper-based documents that must be check individually and manually.

Employee

Is the information correct?

Fix the wrong information

File updated PDS

No

Yes

Store the PDS

HRRS

Figure 2

1. Processing of Employee’s Leaves Application – These are the leaves that an employee of DILG-CAR can avail; Paternity Leave, Rehabilitation Leave, Terminal Leave, Special Emergency Leave, Force Leave, Sick Leave, Vacation Leave, Maternity Leave, Magna Carta for Women, Study Leave, Special Privilege Leave, Solo Parent Leave, Monetize Leave and Violence Against Women and Children Leave. The process starts by filling up a leave application and to be submitted to the HR Admin Officer. The application will be officially approved by the authorization of the HRRS, Department Officer and the RD.

Employee

No

File Leave Application

No

No

Is the application is accepted by the HRRS?

Approved by the HRRS

Yes

Is the application is accepted by the officer?

Yes

Approved by the officer

Is the application is accepted by the RD?

Approved by the RD

Yes

HRRS

Figure 3

1. Processing of Employee’s Leave Credits - leave points are given to employee’s every first working day of the month, leave points will be consumed when an employee files an application for leave and renders the given leave, the remaining points will be computed as leave credits. Remaining leave credits of the last month will be added to the leave credits of the next month and so on and so forth. When the leave credits are not consumed it will accumulate and will be converted into cash when an employee files a resignation. An employee can borrow leave points from vacation leave credit to sick leave credits but not vice versa. When an employee consumed all the leave credits and still files a leave and renders it, the salary of the employee will be deducted base from the number of days of the leave. The HR Admin Officer manually store and computes the leave credits of each employee in a spreadsheet file entitled Leave Ledger Card (see Appendix), some data needed for the computation are in DTR and Leave Form.

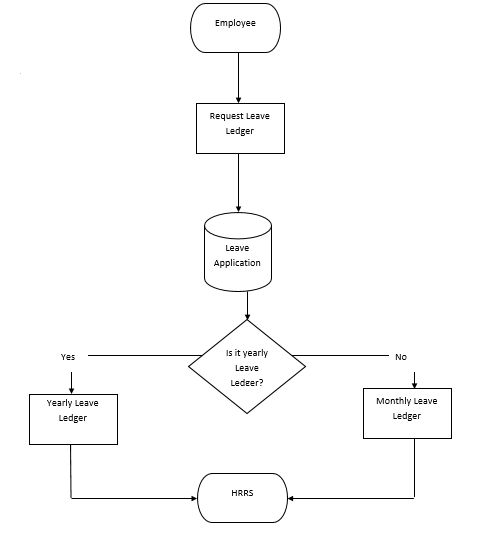


Figure 4

1. Updating of Plantilla - The Plantilla (see Appendix K) is being released by the Department of Budget and Management (DBM) every start of the year and will be use by the HR Admin Officer all throughout the year. Afterwards the HR Admin Officer will send an updated version of the Plantilla to the DBM through the Government Manpower Information System (GMIS) official website every end of the year for documenting purposes. The Plantilla is a form that monitors the employee status in the DILG-CAR, it holds the entire population of DILG-CAR. Every time an employee is either promoted or re-assigned, the Plantilla will be the first to be updated. If there are changes within Plantilla, it will be reflected on the reports connected in the Plantilla such as the PDS and Service Record. Changes made in the Plantilla are done manually using a spreadsheet. The HR Admin Officer often uses the cut and paste method to obtain the information of a certain employee in the Plantilla, this is done to transfer the employee’s information to the designated vacant position in the Plantilla. By using spreadsheet to do the process of promoting and re-assigning makes the work longer and arduous because in every Division of the Plantilla has its own different spreadsheet file. When an update occurs the HR Admin also needs to manually update the forms related to the Plantilla.

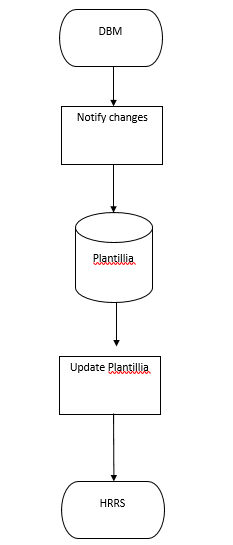


Figure 5

1. Processing of Employee’s Service Record, NOSI and NOSA– Service Record serves as the summary of the whole working experience of a government employee in the DILG-CAR. Each employee’s service record is stored in a word document file named after them, a hard copy of the report can be requested from the HR Admin Officer. Data from the Service Record is acquired from the Plantilla, which means that if the employee is promoted or reassigned in the Plantilla the Service Record of that employee will be updated as well, also the release of NOSA or NOSI will affect the Service Record. In this case, updating of Service Record will be arduous and will take longer because if either the NOSA or NOSI or Plantilla will be updated the HRRS will check the updated files and manually update the service record of each employee. NOSA is Notice of Salary Adjustment which is being released when the National Budget Circular of the DBM order for salary adjustment and NOSI is Notice of Step Increment will be released when an employee is qualified for a promotion or an employee completed a three (3) years of working service on the same position. The NOSA is released by the DBM to the HR Admin Officer and will be given to each employee. The HR Admin Officer will manually edit the given templates by the DBM for each employee regarding their NOSI and NOSA. Salary Grade is a table that contains the different levels of salary an employee can have, starting from salary grade 1 to salary grade 28.

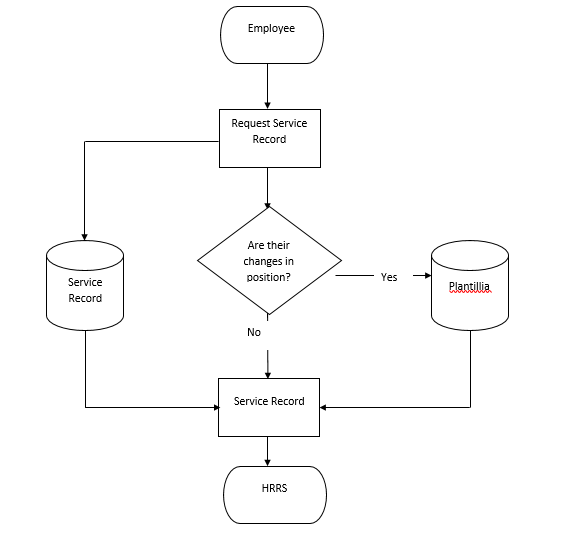


Figure 6

HRRS

Notify changes

Plantillia

Is their increment in salary?

No

Yes

Employee

NOSA

NOSI

Figure 7

* 1. **Statement of the Problem**

1. The information that the employees are entering in their PDS is not always accurate.

2. The employees who attend seminars and training are difficult to monitor due to their outdated PDS.

3. The employees who leave on the different days and currently on their leaves are difficult to monitor.

4. The HRRS uses a Microsoft Excel to have the computation of every employee's leave credits.

5. The HRRS uses a Microsoft Excel to monitor the Plantilla and they use copy and paste method to have a history of their Plantilla.

6. In generating every employee's Service Record, NOSI and NOSA typographical error is a common error that they are encountering.

This is the proposal that HRIS will be performed in the HRRS of the DILG-CAR are the following:

The system will be a web application that employee’s and the HRRS can be accessed from the office. The system will have a login system to secure the information of the employee and the HRRS. The new user will have to input the first part of the PDS which is the personal information section. The main processes of our system are to view, edit, and generate the following:

1. PDS – in the system, the process of the PDS is almost similar to the current process of DILG-CAR except in the system the process is computerized and doesn’t have to be print. The PDS in the system can be viewed and edit by the employee anytime there is an update in their PDS and can be print if needed. The HRRS can now easily check the update of their PDS.
2. Leave Application – there will be a template for the application which an employee can fill up and print afterwards then submit the printed file to the HRRS. After the HRRS checked the form, it will be delivered to the employee’s department head then to the RD to be approved. If approved by both then it will be marked in the system approved. This will help the HRRS to monitor the leave of their employee.
3. Leave Ledger – the system can query some information of the employee to create their leave ledger.
4. Plantilla – the plantilla can be edit, view, and generate by the HR admin Officer. The plantilla in the system will have a function of promoting and re-assigning a certain employee and can archive employee too.
5. Service Record – some of the data will be query from the service experience in the PDS and the update will come from the Plantilla.
6. NOSI and NOSA – there will be templates for NOSI and NOSA in the system and certain data’s can be query to supply some information
   1. **Statement of the Objectives**

The Objective of the project is to develop the HRIS to automate manual working related processes between Employee and the Human Resource Administrator and improve monitoring and checking of processes by the HRRS.

* To collect and determine the requirements by gathering data that is significant in the development of the HRIS System
* To establish this different architecture and models in designing the system which are the Application and System Architecture, Entity Relationship Diagram and Data Schema
* To implement the design by using different tools and technologies.
* To present the system functions and feature through performing beta testing with different users.
* To maintain and deploy the system.
  1. **Scope of the Project**

The proposal of this project is to improve the system of the HRRS in the DILG-CAR. The developers conducted a requirement elicitation and analysis of the current condition of the regional office of DILG-CAR to collect data needed for the functional requirements of the HRIS for DILG-CAR and the following processes are observed as follows; processing of Personal Data Sheet, processing of employee's work time, processing of employee's leaves, processing of employee's leave credits, maintaining of the Plantilla, processing of employee's Service Record, NOSI, and NOSA. The proposed system will not include the Daily Time Record of the employee.

* 1. **Significance of Study**

**1.6.1 To the Employee**

It would make the work of employees easier and more convenient. The employees can view their PDS, Leaves, Service Record, NOSI, NOSA and Plantilla. Also, they can edit the PDS and file a leave via the system.

**1.6.2 To the HRRS**

It would help the human resource personnel to facilitate and monitor changes or updates regarding information in the system. Tracking, organizing, sorting data and generating reports will be faster and easier.

**1.6.3 To the DILG-CAR**

It would help the DILG-CAR to have faster operations in HRRS and make significant change in the processes involving in the particular section.

**CHAPTER 2**

**Methodology**

The methodology that the developers will use for the development of the system is the Evolutionary-Exploratory Model. With requirements that are constantly changing throughout the development of the system using the model is suitable for the project. By using this model, the developers will be able to understand much better the process and purpose of each part in different forms of the HRRS to make development more effective. Through analyzing the gathered data, frequent interviews with the HRRS and observing the current process the developers narrow down the essential requirements, and create features and modules. The developers design a diagram to explain the phases for the development of the system.

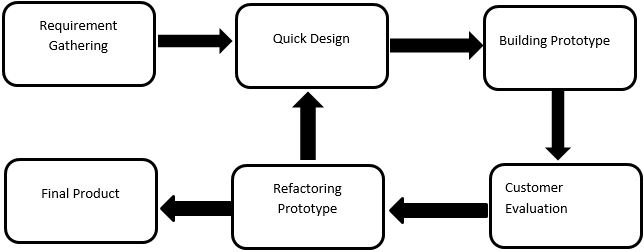
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Figure 8

With the phases of the model, the developers are improving and making changes with every iteration that is being made thus achieving the desired final product.

**2.1 Requirement Gathering**

The requirement gathering phase allows the developers to fully understand the demands and wants of the stakeholders, also can give a better grasp on what will the whole project can offer. Thus, making this phase critical to the development of the project. The developers must be thorough and concise on the information that will be gathered, the developers will gather information by interview, document analysis, observation and data gathering.

**2.1.1 Data Gathering**

The methods that the developers will use in gathering data are interviews, observation of the HRRS current processes, analyzation of different forms and documents.

The developers scheduled interviews with the Administrative Officer of the HRRS to fully understand their process and clarify information that is unclear, they asked the step by step process of different forms, problems and concerns occur in the office, explanation of different forms related to other forms, and how the system should process and the outcome of the forms generated by the system. The developers will also make an observation on the working area of the HRRS that will help the developers to have a good grasp on how the actual process work. Sample copies of reports and user records were also collected so that the developers may have a very good understanding about the content and the processes of the client’s work.

The developers will also base the interface of the system with the website ELOPDS which is suggested by RITCTU. ELOPDS has most of the functionalities to be used in the system, also RITCTU gave the theme to be followed.

**2.2 Quick Design**

In the quick design phase, the developers create design the back-end and the front-end of the system. This design is based on the requirements that will be gather in the requirement phase and the requirement or suggestion of the HRRS.

**2.2.1 Design Tools**

**2.2.1.1 Entity-Relationship Diagram**

The Entity-Relationship diagram will be used by the developers to represent the information system for DILG’s daily monitoring of work and to show the relationships between entities in the database.

**2.2.1.2 Relationship Database Schema**

This will support the ERD used by the developers, it will describe the data or information that is stored in the database. The schema represents the view of the entire database including its constraint to specify the rules for data in a table.

**2.2.1.3 System Architecture**

Application Architecture will be used in the development of the system to define the framework and structure of the organization’s application. It establishes the framework for agility, reliability, and scalability in the application system so that the application will respond effectively and efficiently to changes in the important information systems. And it defines the necessary application systems to process data and support solutions for the business requirements. It also shows how this application communicates with each other and to its users.

**2.2.1.4 Site Map**

Site Map will be used for the planning of the proposed web-based system and also to list the webpages of the website.

**2.3 Building Prototype**

The prototype phase is the start of development of the quick design that is created by the developers. The developers will develop the prototype based on the current requirements and data gathered. The developers work both front-end and the back-end of the system.

**2.4 Customer Evaluation**

The client evaluation phase is where the client evaluates the system created by the developers. The people who will evaluate are from the HRRS or Regional Information & Communication Technology Unit (RITCTU) of the DILG-CAR. The data will be a form of all possible data that can be test and wrong data given by the HRRS. The first input right data and follow the correct instruction then after the whole process is the wrong data will be input and a scenario where mistake happen to see the result of both right and wrong situation. The client will give the developers feedback about the system. It will be 20 minutes of explaining the progress of the system, 30 minutes or 1 hour and 30 minutes of testing of data input in the system and 10 minutes of recording the results of the evaluation. It will be 1 times a week when both developers and client is free.

**2.5 Refactoring Prototype**

The refactoring prototype phase is where the developers’ refractors or update the system from the feedback of the client. After the client does the evaluation, if the client sees problems, a system error occurs or the client wants minor changes in the system or in some cases the developers found bugs then the developers will list it. Then the developers will fix the problems and the bugs then updated system to present it to the client.

**2.6 Final Product**

After all the building of prototype, evaluation, and refactoring to attain the system required, the final production phase will start. In this phase, the developers will present it to the whole employee of the DILG – CAR main office to demonstrates it to them so that they know how to use the system. The developers also make a manual of the system to help the employees and the HRRS how to use the system.

2.7 Timeline of the system

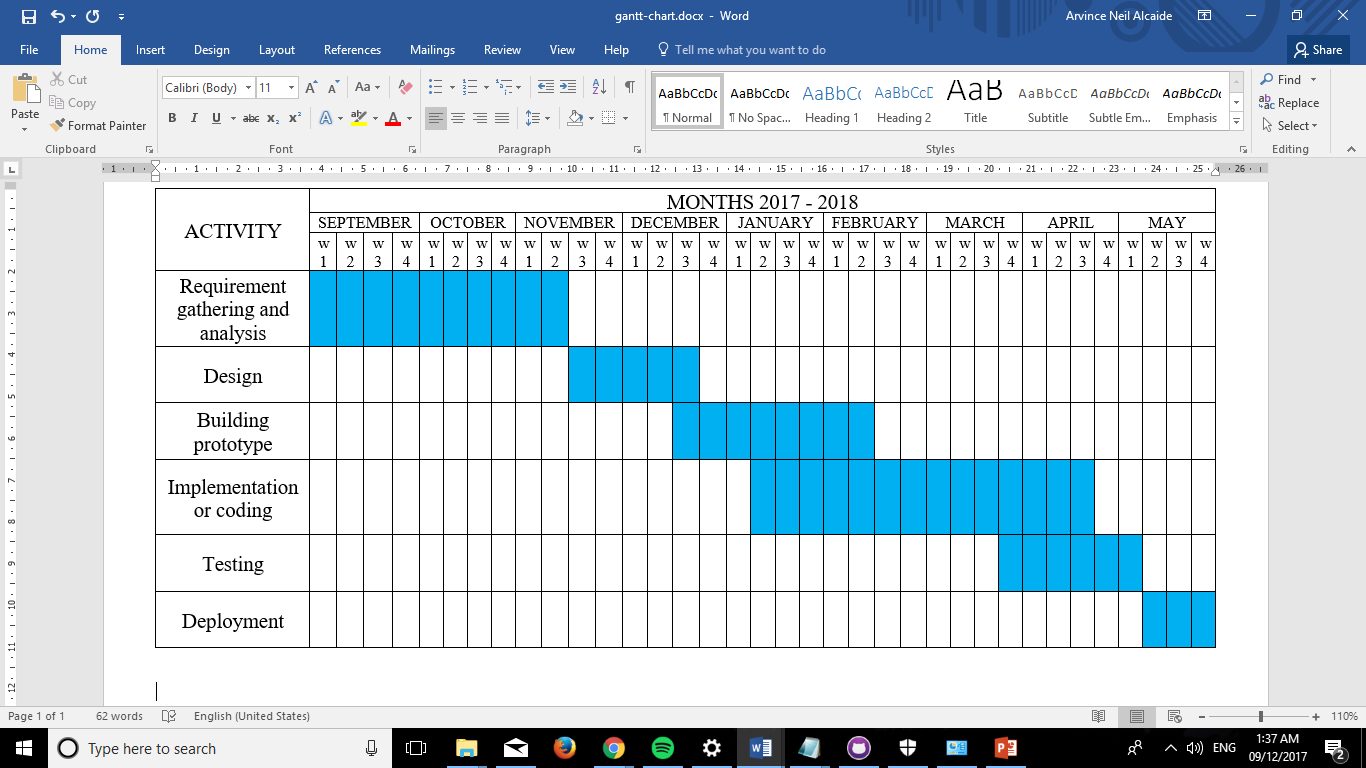


Figure 9

**Chapter 3: Outcomes and Results**

**3.1 Requirements Specification**

Table 1: The following are the list of functional requirements provided by the system.

|  |  |
| --- | --- |
| Employee | * Will be able to modify their personal information in the PDS * Will be able to view their PDS * Will be able to update their PDS * Will be able to input their leave information * Will be able to file their leave application * Will be able to modify their leave information * Will be able to view their leave information * Will be able to update their leave information * Will be able to view their Service Record |
| HR Admin Officer | * Will be able to generate the PDF file of PDS * Will be able to input data in the Leave Ledger * Will be able to modify leave ledger of employee * Will be able to view the pending and approve leaves * Will be able to view the Leave Ledger of employee * Will be able to update the Leave Ledger of employee * Will be able to accept or reject employee’s file leave * Will be able to print Leave Ledger * Will be able to input data in the Service Record * Will be able to modify the Service Record of employee * Will be able to view the Service Record of employee * Will be able to update the Service Record of employee * Will be able to print Service Record * Will be able to input data in the Plantilla * Will be able to modify personal information in the Plantilla * Will be able to view the Plantilla * Will be able to update the Plantilla * Will be able to select employee to promote, re-assign, or archive in the Plantilla * Will be able to print Plantilla * Will be able to modify the NOSI of employee * Will be able to view the NOSI of employee * Will be to able update the NOSI of employee * Will be able to print the NOSI * Will be able to modify the NOSA of employee * Will be able to view the NOSA of employee * Will be to able update the NOSA of employee * Will be able to print the NOSA * Will be able to view the Certificate of Employment of employee * Will be able to print Certificate of Employment of employee * Will be able to search specific employee profile * Will be able to search, view and filter pending employees * Will be able to select a report to generate |
| Regional Director | * Will be able to view the PDS of employee * Will be able to view the Leave Ledger * Will be able to view the Plantilla * Will be able to view the Service Record * Will be able to view pending and approved leaves |

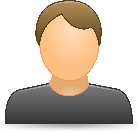
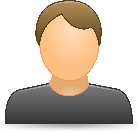
**3.1.2 Non-Functional Requirements**

The following are the list of how the system should be:

* The system must be able to secure privacy of information
* The performance of the system should be fast; there should be no run-time constraints
* The system should provide accurate and precise data
* The system should be easy to operate and learn
* The system should be able to handle error detection and checking of duplicates
* The system should be able to handle capacity of resources and data to be processed

**3.2 System Architecture**

DILG-CAR Employee



Regional Director

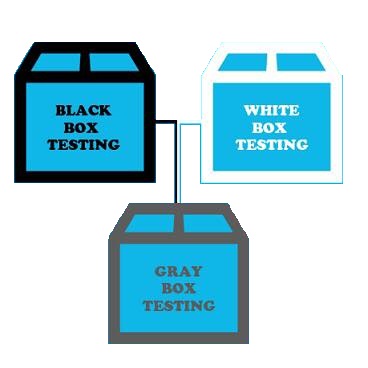
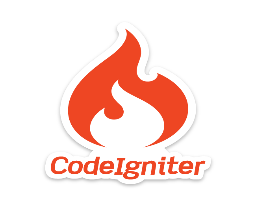
DILG-CAR Employees

HR Admin Officer

NETWORK



HRIS for DILG-CAR



NETWORK

MySQL Database

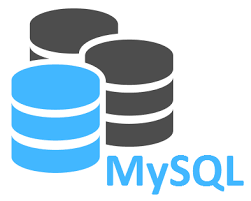
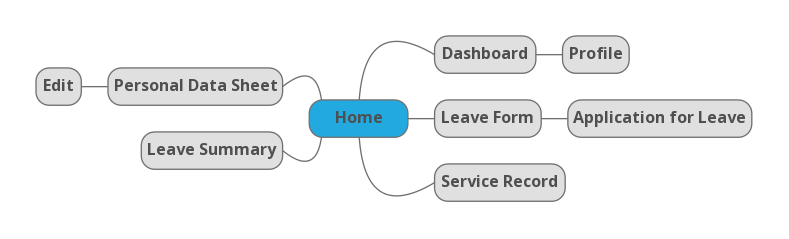


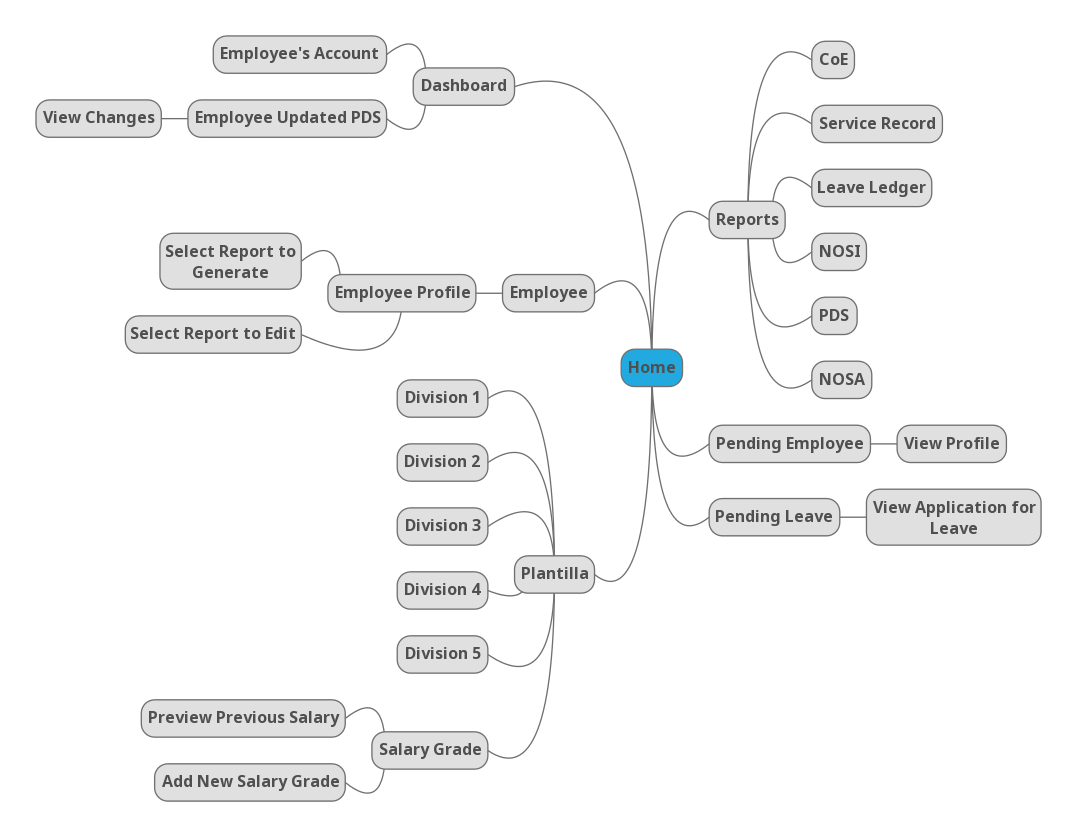
Figure 10: System Architecture for HRIS of DILG-CAR

The system that will be developed can be access through a web browser specifically Google Chrome and Mozilla Firefox. It will be developed using Html, javascript and Css because this are some of the tool used in starting a web application and all of the developers are familiar on this tool. Code igniter will be used as the framework. BlackBox, WhiteBox, GrayBox testing and Selenium will be used as the testing tools all of this four(4) tools are compatible in web application, This 4 tools have the features that is related to development tool that the developers used, Blackbox can find missing or incorrect functions, Whitebox can have full access to configure the system, accessing the code, and have full access into the server side, Greybox is very effective on big projects it is fit to the propose project. The backend will be used Phpmyadmin and mysql because the developers have experience in using this database and it is easy to use software.

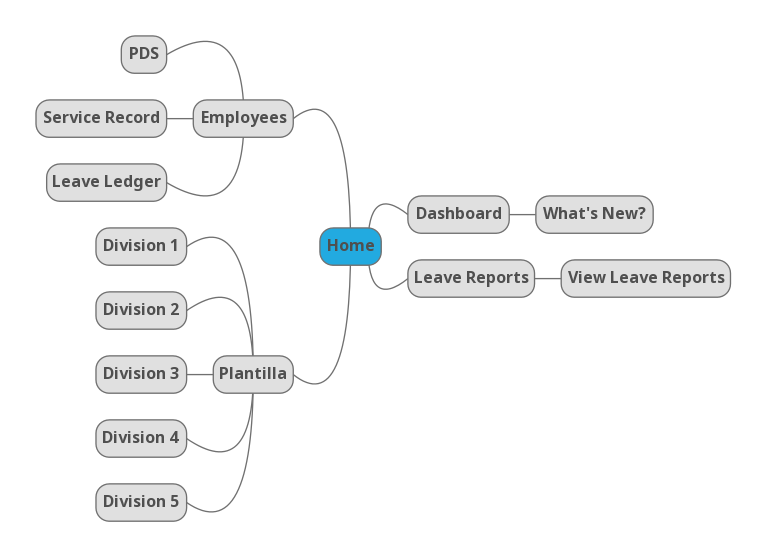
**3.3 Site Map**



*Figure 11: Employee Module Site Map*



*Figure 12*: *HR Admin Officer Module Site Map*



*Figure 13: Regional Director Module Site Map*

**3.4 Data Architecture**

**3.4.1 Entity-Relationship Diagram**

****

Figure 14

****

Figure 15

**3.4.2 Data Schema**

APPLICATION FOR LEAVE (app\_id, emp\_id, typeOfLeave, location, sickInfo, noOfWorkingDays, inclusiveDates, status)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

AK emp\_id

CIVILSERVICE ELIGIBILITY (civilService\_id, emp\_id, civilServiceName, rating, dateOfExamination, placeOfExamination, licenseNumber, licenseDateOfValidity)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

CHILDREN (family\_id, fullname, dateOfBirth)

FK family\_id References FamilyBackground Nulls Not Allowed

Delete Cascade, Update Cascade

DIVISION (division\_id, division\_code, division, province)

AK division\_code

EDUCATIONAL BACKGROUND (educ\_id, emp\_id, level, nameOfSchool, basicEducationDegreeCourse, periodOfAttendanceFrom, periodOfAttendanceTo, highestLevelEarnedUnits, yearGraduated, scholarshipsAcademicHonorsReceived)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

EMPLOYEE (emp\_id, name, dateOfBirth, sex, civilStatus, height, weight, bloodtype, gsis, pagibig, sss, tin, citizenship, ressidentialAddressHouseBlockLotNo, residentialAddressStreet, residentialAddressSubdivisionVillage, residentialAddressBarangay, residentialAddressCityMunicipality, residentialAddressProvince, residentialAddressZipcode, permanentAddressHouseBlockLotNo, permanentAddressStreet, permanentAddressSubdivisionVillage, permanentAddressBarangay, permanentAddressCityMunicaplity, permanentAddressProvince, permanentAddressZipcode, telephoneNo, mobileNo, emailaddress, citizenship\_country, citizen\_info, password)

AK name

EMPVOLU (voluntaryWork\_id, emp\_id, position\_title)

FK voluntaryWork\_id References Voluntary Works Nulls Not Allowed

Delete Cascade, Update Cascade

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

EMPWORK (workExperience\_id, emp\_id, year)

FK workExperience\_id References Work Experience Nulls Not Allowed

Delete Cascade, Update Cascade

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

FAMILY BACKGROUND (family\_id, emp\_id, spouseName, spouseOccupation, spouseEmployerBusiness, spouseBusinessAddress, spouseTelephoneNo, fatherName, motherName)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

LEAVE LEDGER (ledger\_id, emp\_id, app\_id, vacationAvailedLeaves, vacationNoOfAbsence, tardiness, vacationEarned, vacationBalance, vacationAbsenceWithPay, vacationAbscencesWithoutPay, sickAvailedLeaves, sickNoOfAbsenceTardiness, sickEarned, sickBalance, sickAbsenceWithPay, sickAbsencesWithoutPay, year)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

FK app\_id References ApplicationForLeave Nulls Not Allowed

Delete Cascade, Update Cascade

AK emp\_id

OTHER INFO (info\_id, emp\_id, skillsAndHobbies, nonAcademicDistinction, membership)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

PLANTILLA (plantilla\_id, emp\_id, position\_id, division\_id, itemNumber, positionTitle, salaryGrade, authorized\_sal, actual\_sal, step\_increment, area\_code, area\_type, level, ppaAttribution, civil)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

FK position\_id References Position Nulls Not Allowed

Delete Cascade, Update Cascade

FK division\_id References Division Nulls Not Allowed

Delete Cascade, Update Cascade

AK emp\_id

PDS EMPLOYEE RESPONSE (PdsEmployeeResponse\_id, emp\_id, no34ResponseA, no34ResponseB, no34ResponseDetails, no35ResponseA, no35ResponseB, no35Details, no36Response, no36ResponseDetails, no37Response, no37Details, no38ResponseA, no38ResponseB, no38ResponseDetails, no39Response, no39ResponseDetails, no40ResponseA, no40ResponseADetails, no40ResponseB, no40ResponseBDetails, no40ResponseC, no40ResponseCDetails)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

POSITION (position\_id, emp\_id, position)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

REFERENCES (reference\_id, emp\_id, name, address, telephoneNo)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

SERVICE RECORD (service\_id, emp\_id, startJobDate, endJobDate, designation, status, annualSalary, division, branch, remarks)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

AK emp\_id

TEMPLATE (template\_id, emp\_id, context, date, salary)

FK emp\_id References Employee Nulls Not Allowed

TRAININGS (training\_id, emp\_id, titleofTrainingLearning, trainingStart, trainingEnd, numberOfHouse, typeOfLP, conductedSponsoredBy)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

VOLUNTARY WORKS (voluntaryWork\_id, emp\_id, nameAddressOfOrganization, from, to, position)

FK emp\_id References Employee Nulls Not Allowed

Delete Cascade, Update Cascade

WORK EXPERIENCE (workExperience\_id, emp\_id, startJobDate, endJobDate, positionTitle, departmentAgencyOfficeCompany, monthlySalary, salaryJobPayGradesStep, statusOfAppointment, GovernmentService)

FK emp\_id References Employee Nulls Not Allowed

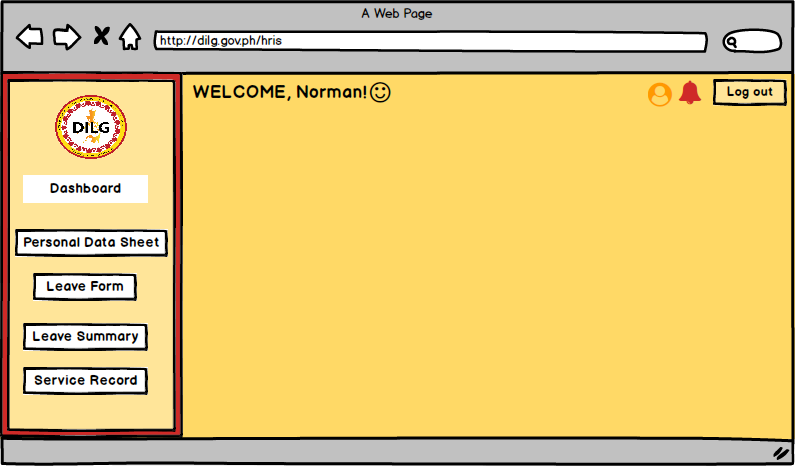
Delete Cascade, Update Cascade

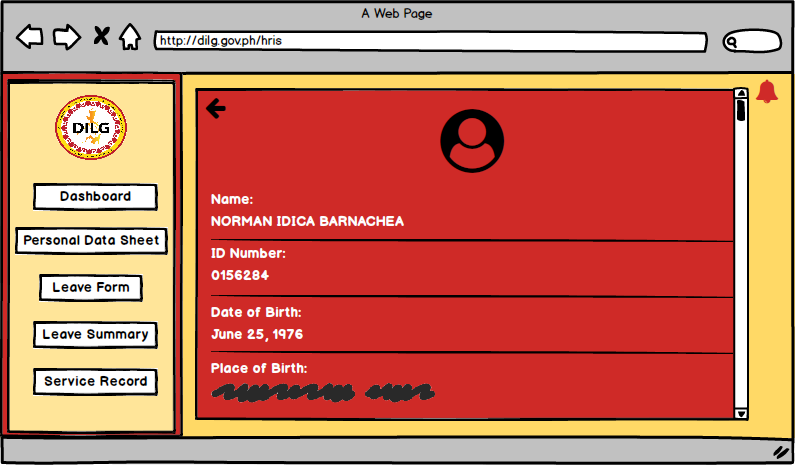
**3.5 Prototypes**

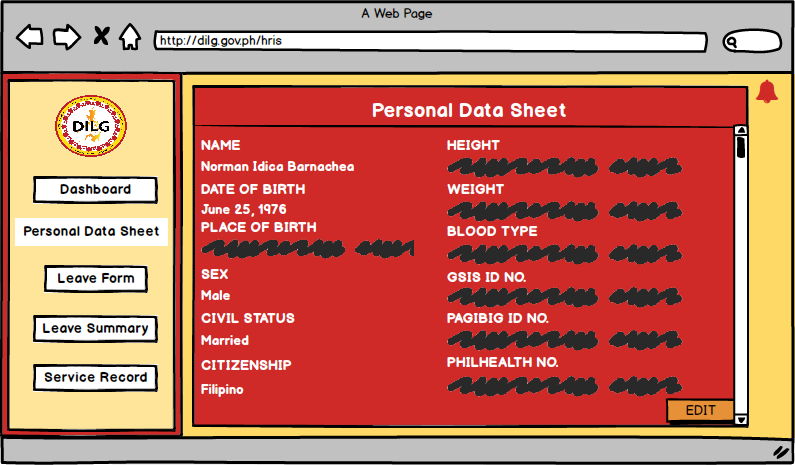
**3.5.1 Human Resource Administrative Officer**

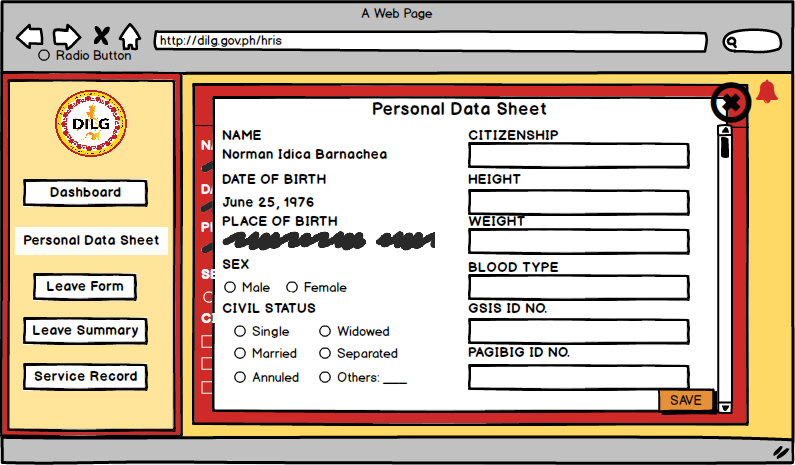
**3.5.2 Employee**

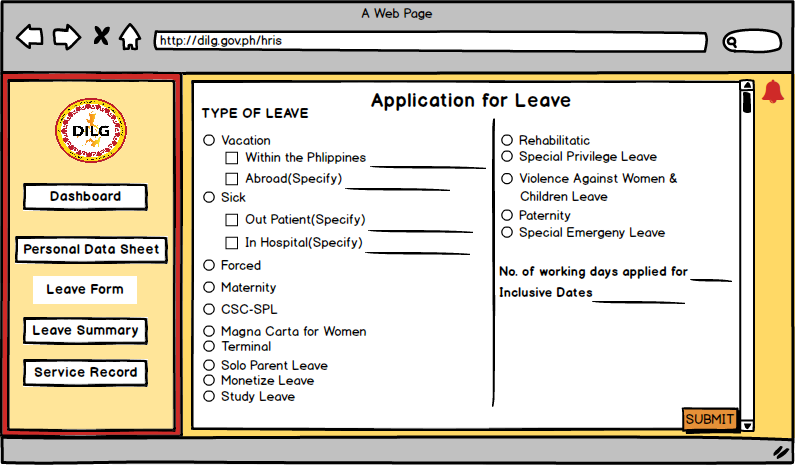
*Figure 13: Reset User Password*

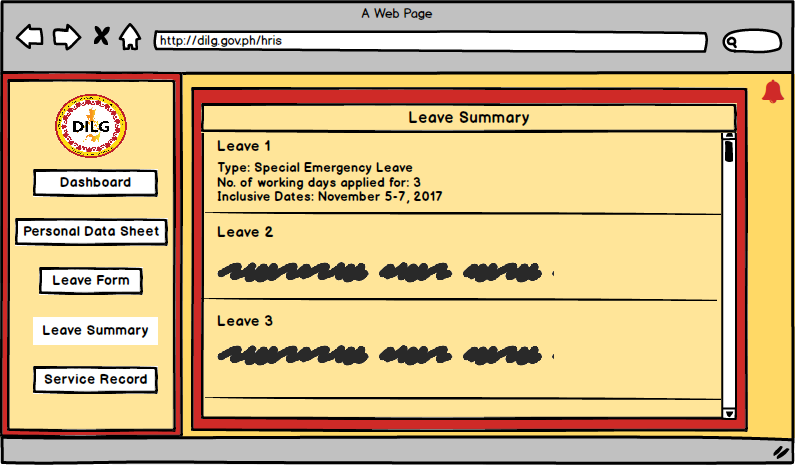
*Figure 14: Dashboard*

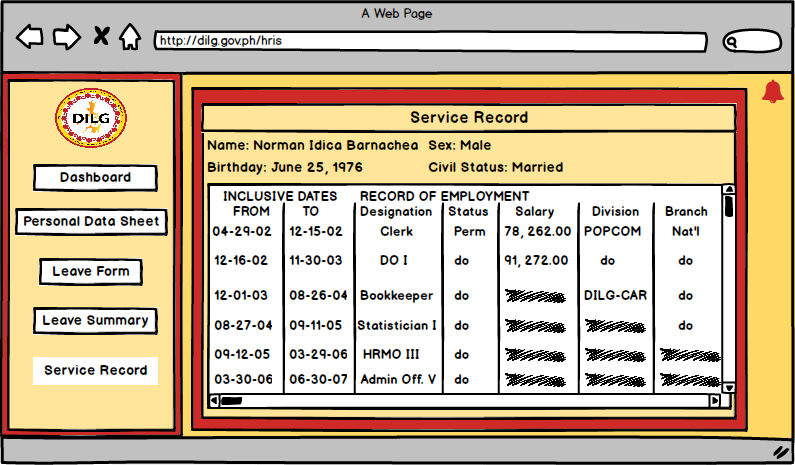
*Figure 15: Profile*

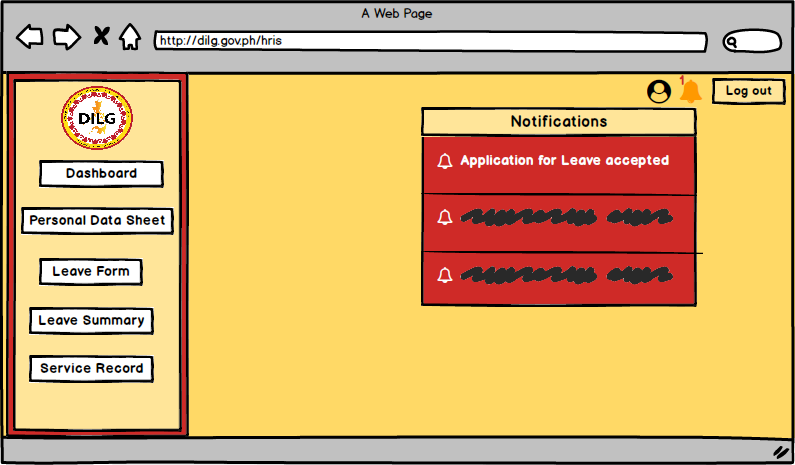
*Figure 16: Personal Data Sheet*

*Figure 17: Edit Personal Data Sheet*

*Figure 18: Application Leave Form*

*Figure 19: Leave Summary*

*Figure 20: Service Record*

*Figure 21: Notification*

**3.5.3 Super User**

**APPENDIX**

**Appendix A:** Daily Time Record

**Appendix B:** Type of Leaves

**Appendix C:** Type of Leaves

**Appendix D:** Application for Leave Form

**Appendix E:** Computation of Leaves Credit

**Appendix F:** Computation of Leaves Credit

**Appendix G:** Service Record

**Appendix H:** Notice of Step Increment

**Appendix I:** Notice of Salary Adjustment

**Appendix J:** Leave Ledger Card

**Appendix K:** Personal Services Itemization and Plantilla of Personnel (Plantilla)

**Appendix L:** Personal Data Sheet

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