**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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by

Arvince Neil A. Alcaide

Sarah Mae E. Centino

Denver D. Culbengan

Ryan Christian A. De Guzman

Danielle Phillip A. Estrellado

Aerhielle Cassandra E. Leonen

Paul Christian C. Sam

Benedict M. Suarez

Laurence F. Balmeo

Project Adviser

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**Abstract**

This proposal is about applying the Human Resource Information System (HRIS) to 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). The HRRS produce many different forms for their employees and most of the process of making the forms are manually input and edit then print it to send to the employee or other department. The HRRS also update the forms given by the employee and from the Department of Budget and Management (DBM).

The methodology is evolutionary-exploratory model to ensure the understanding of forms and processes to be implement their functions in the system and can show to the HRRS the progress of the system to hear their feedback and to be revise the error of the system.

The HRIS will expect to make the work of the HRRS in the PDS, Leave Application and Ledger, Plantilla, Service Record, NOSI, and NOSA to be more organized, fast, and easy the process of the forms that can benefit both employee and HRRS of the DILG-CAR. It makes the process organize because the system will arrange the parts of the form in a proper order and with guidelines for the HRRS and employees. It will be faster to distribute the forms because it will not be manually written when filling-up the form but it will be fully computerized. It will also make the employee get their forms easier because it is in the system ready to print.

**Table of Contents**

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

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

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

**CHAPTER 1: INTRODUCTION**

1.1 Context of the Study ……………………………………………………… 1

1.2 Background of the Study ………………………………………………… 1

1.3 Statement of the Objectives ……………………………………………… 6

1.4 Scope of the Project ……………………………………………………… 6

1.5 Significance of the Study ………………………………………………… 6

1.5.1 To the Employee ………………………………………………. 6

1.5.2 To the HRRS ……………………….………………………….. 6

1.5.3 To the DILG-CAR …………………………………………….. 6

**CHAPTER 2: METHODOLOGY**

2.1 Requirement Gathering ………………………………………………….. 7

2.2 Quick Design …………………………………………………………….. 7

2.3 Building Prototype …………………………...…………………………… 8

2.4 Customer Evaluation …………………………………………………….. 8

2.5 Refactoring Prototype …………………..……………………………….. 8

2.6 Final Product …………………………………………………………….. 8

2.7 Data Gathering …………………………………………………………… 8

2.8 Design Tools …………………………………………………………….. 9

2.8.1 Entity-Relationship Diagram …………………………………. 9

2.8.2 Relationship Database Schema ……………………………….. 9

2.8.3 System Architecture …………………………………………. . 9

2.8.4 Use Case Diagram ……………………………………………. 9

**CHAPTER 3: OUTCOMES AND RESULTS**

3.1 Requirements Specification …………………………………………….. 10

3.1.1 Functional Requirements ……………………………………… 10

3.1.2 Non-Functional Requirements ………………………………… 13

3.2 System Architecture …………………………..………………………… 14

3.3 Use Case Diagram ……………………………………………………… 15

3.4 Data Architecture

3.4.1 Entity-Relationship Diagram …………………………………. 16

3.4.2 Data Schema ………………………………………………….. 17

3.5 Prototypes

3.5.1 Human Resource ……………………………………………… 21

3.5.2 Employee ……………………………………………………… 33

3.5.3 Super User ……………………………………………………... 38

**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 …………………………………………………… 2

Figure 2. Evolutionary-Exploratory Model ……………………………………………… 7

Figure 3. System Architecture …………………………………………………………… 14

Figure 4. Use Case Diagram …………………………………………………………….. 15

Figure 5. Entity-Relationship Diagram ………………………………………………… 16

Figure 6. Log In ………………………………………………………………………… 21

Figure 7. Human Resource Administrative Officer Dashboard ………………………… 21

Figure 8. Employees Account ………………………………………………………….. 22

Figure 9. PDS Update ………………………………………………………………….. 22

Figure 10. PDS Update ……………………………………………………………….... 23

Figure 11. Pending Employee ………………………………………………………….. 23

Figure 12. Pending Employee ………………………………………………………….. 24

Figure 13. Employee …………………………………………………………………… 24

Figure 14. Employee Profile …………………………………………………………… 25

Figure 15. Generate Report Employee ………………………………………………… 25

Figure 16. Edit Report …………………………………………………………………. 26

Figure 17. Edit Report …………………………………………………………………. 26

Figure 18. Reports ……………………………………………………………………... 27

Figure 19. Reports Certificate of Employment ………………………………………… 27

Figure 20. Reports Certificate of Employment ………………………………………… 28

Figure 21. Pending Leave ……………………………………………………………… 28

Figure 22. Application for Leave ……………………………………………………… 29

Figure 23. Plantilla ……………………………………………………………………. 29

Figure 24. Plantilla Salary Grade ……………………………………………………… 30

Figure 25. Previous Salary Grade ……………………………………………………… 30

Figure 26. Addition of Salary Grade …………………………………………………… 31

Figure 27. Plantilla Division …………………………………………………………… 31

Figure 28. Editing of Plantilla …………………………………………………………. 32

Figure 29. Plantilla Re-assign …………………………………………………………. 32

Figure 30. Archiving an Employee ……………………………………………………. 33

Figure 31. Sign-up …………………………………………………………………….. 33

Figure 32. Employee Dashboard ……………………………………………………… 34

Figure 33. Profile ……………………………………………………………………… 34

Figure 34. Personal Data Sheet ……………………………………………………….. 35

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

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

Figure 37. Leave Summary …………………………………………………………… 36

Figure 38. Service Record ……………………………………………………………. 37

Figure 39. Notification ……………………………………………………………….. 37

Figure 40. Super User Dashboard ……………………………………………………. 38

Figure 41. Super User Dashboard …………………………………………………….. 38

Figure 42. Super User Dashboard …………………………………………………….. 39

Figure 43. List of Employee ………………………………………………………….. 39

Figure 44. Employee Form …………………………………………………………… 40

Figure 45. Employee's Personal Data Sheet …………………………………………… 40

Figure 46. Plantilla Division …………………………………………………………… 41

Figure 47. Plantilla …………………………………………………………………….. 41

Figure 48. Pending and Approved Leaves …………………………………………….. 42

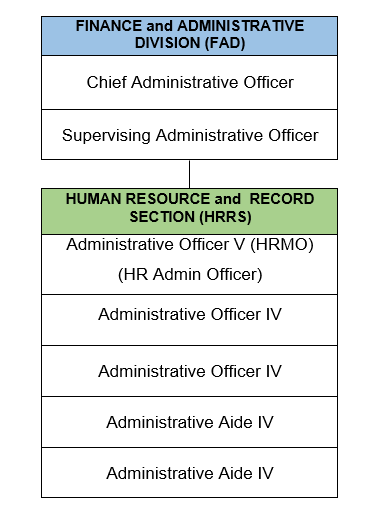
Figure 49. Leave Report ………………………………………………………………. 42

**List of Tables**

Functional Reguirements ……………………………………………………………… 10

**Chapter 1: Introduction**

* 1. **Context of the Study**



* 1. **Background of the Study**
  2. **Statement of the Objectives**
  3. **Scope of the Project**
  4. **Significance of 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**

**2.3.4 Use Case Diagram**

**Chapter 3: Outcomes and Results**

**3.1 Requirements Specification**

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 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 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 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 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 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**

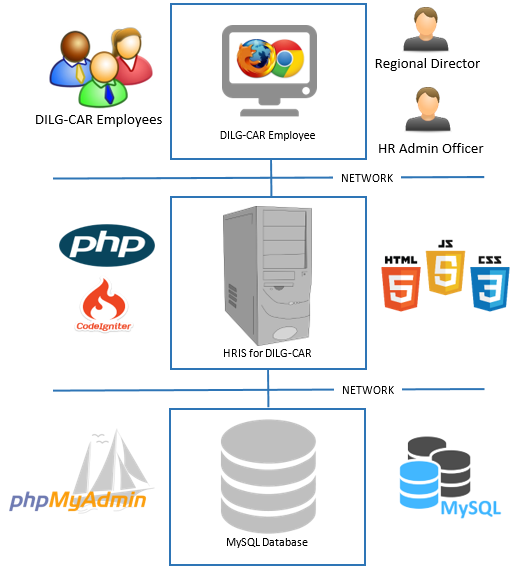


Figure: \_\_\_ System Architecture for HRIS of DILG-CAR

**3.3 Use Case Diagram / Site Map / Function Models**

**3.4 Data Architecture**

**3.4.1 Entity-Relationship Diagram**

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**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**

**3.5.3 Super User**

**APPENDIX**

**Appendix A:** Daily Time Record

**Appendix B:** Type of Leaves

**Appendix C:** Type of Leaves

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**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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