

0.1 Development Model

In the development process of the system, the developers will utilize the Rapid Application Development (RAD) model as a project management strategy. This methodology is characterized by an iterative approach in the software development process, which begins with the specification of requirements from the users and proceeds through rapid prototyping iterative delivery, and continual maintenance for the currently completed software. This methodology is well-suited for the study as it provides researchers a clear overview to follow from the beginning to the end, making it easier to track each step's progress as well as make sure everything went according to the plan. Moreover, the RAD model is perfect to use for projects with expedited schedules and evolving requirements as it lays a strong emphasis on speed, adaptability, and user-centric design.

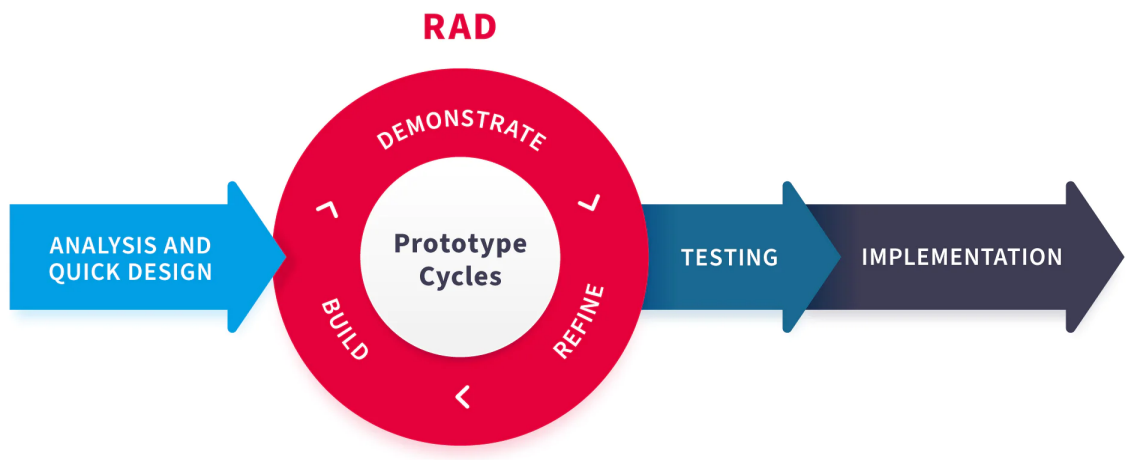


Figure 0.1: Rapid Application Development (RAD) Model.

0.2 Swim-lane Diagram

The Swim-lane diagram illustrates the process flow of the HRIS. The process begins when the user enters their login credentials. These credentials are unique to each University faculty employee, distinguishing them from other users in the system. Each user has different privileges and assignments set initially to access the system. After entering the credentials, the system validates them, granting

the user access to the system. Once the user successfully logs in, they are directed to the dashboard where they can perform different actions depending on their privileges e.g., perform employee actions or tasks and HR overall general management.

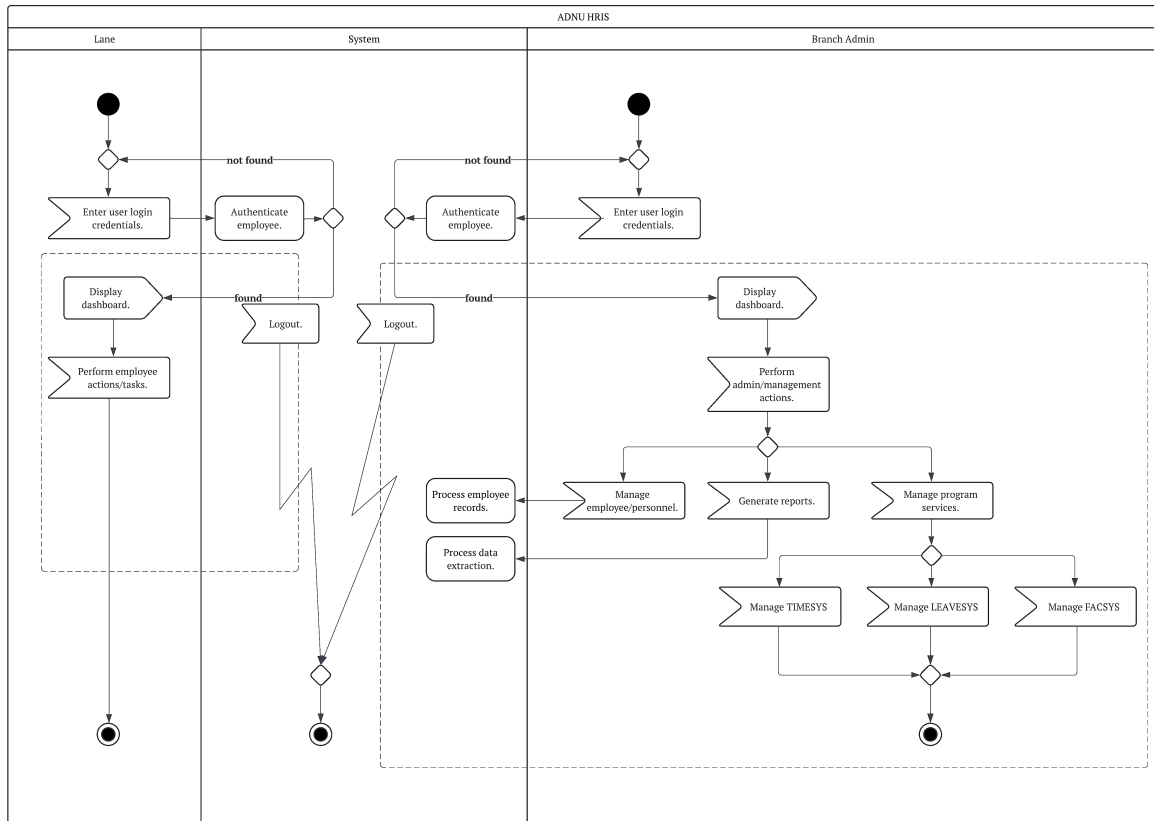


Figure 0.2: HRIS Swim-lane Diagram Model.

Each branch admin area can perform admin privileges and manage different modules within the system. For these actions, they are processed and managed under the system to provide a streamlined operation for any users in the system. For every branch admins will have access to core modules e.g., Manage employee/personnel containing the employee contacts, personal information, profiles, assignments, assignment archive, faculty rank, academic, academic awards, professional license, training attendance, Certificate of Employment (COE), and health record.

Besides this, an admin can also generate different kinds of reports within the system e.g., performing

data extraction, queries, employee performance evaluation, COE reports, contracts/appointment generation, etc.

0.3 Use Case Diagram

The use case diagram serves as a visual representation of the functional requirements of the system from an external user's perspective. It illustrates the interactions between users and the system, showcasing the various use cases and how they relate to each other. In the context of the HRIS application, the use case diagram will outline the different functionalities that users can perform within the system, such as employee management, payroll processing, and performance evaluation. By mapping out these interactions, the use case diagram helps in identifying the system's behavior and the roles of different users in the HRIS application.

Figure 0.3: HRIS Use Case Diagram Model.

0.4 Entity Relational Diagram

The Entity Relational Diagram (ERD) visually represents the database structure and relationships between entities in the HRIS application. It includes entities like employees, departments, positions, and their relationships.

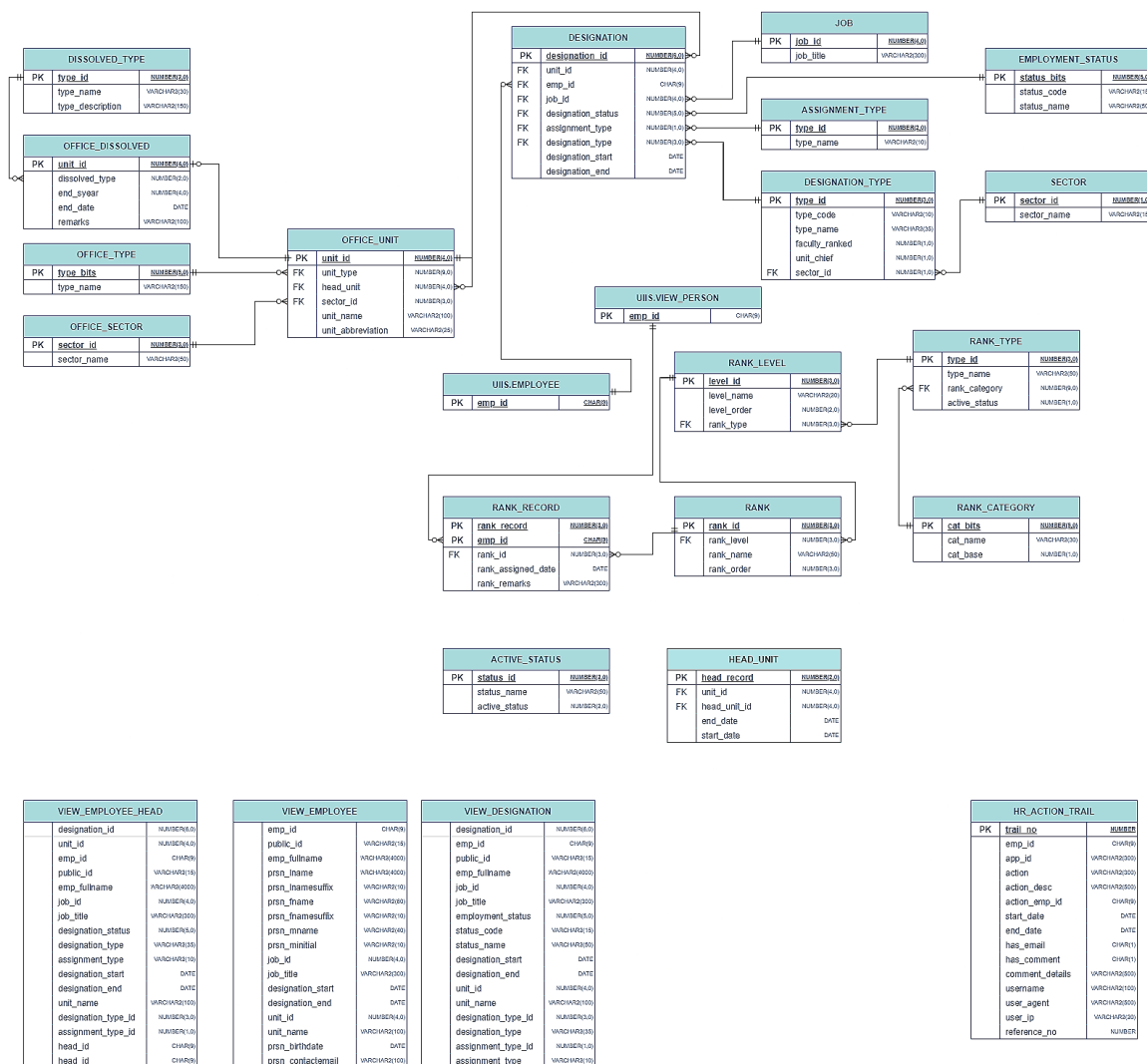


Figure 0.4: HRIS Core ERD Model.

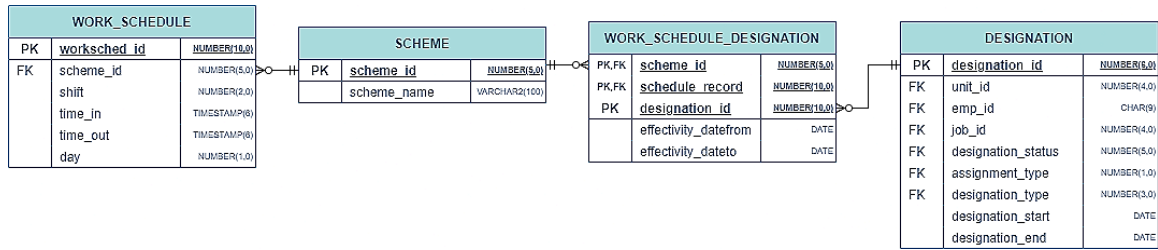


Figure 0.5: HRIS TIMESYS ERD Model.

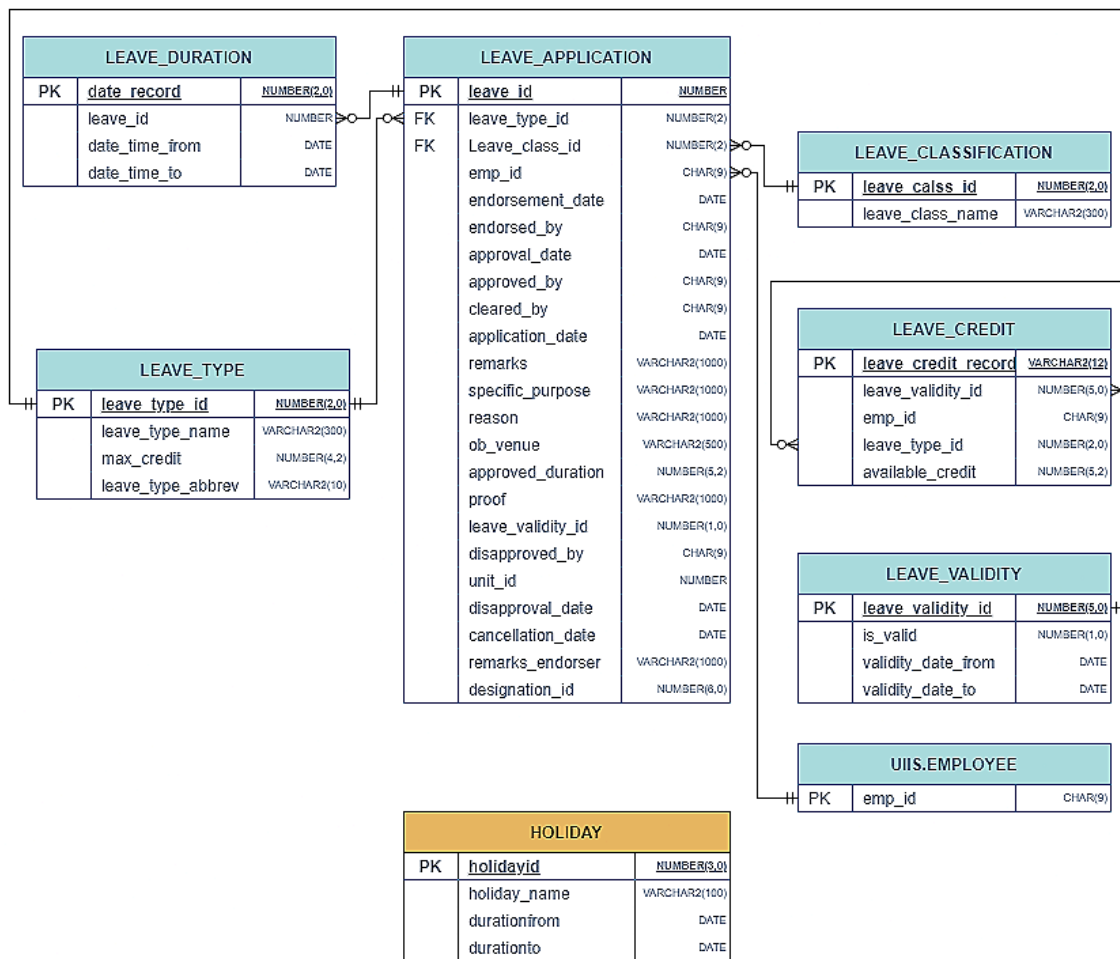


Figure 0.6: HRIS LEAVESYS ERD Model.

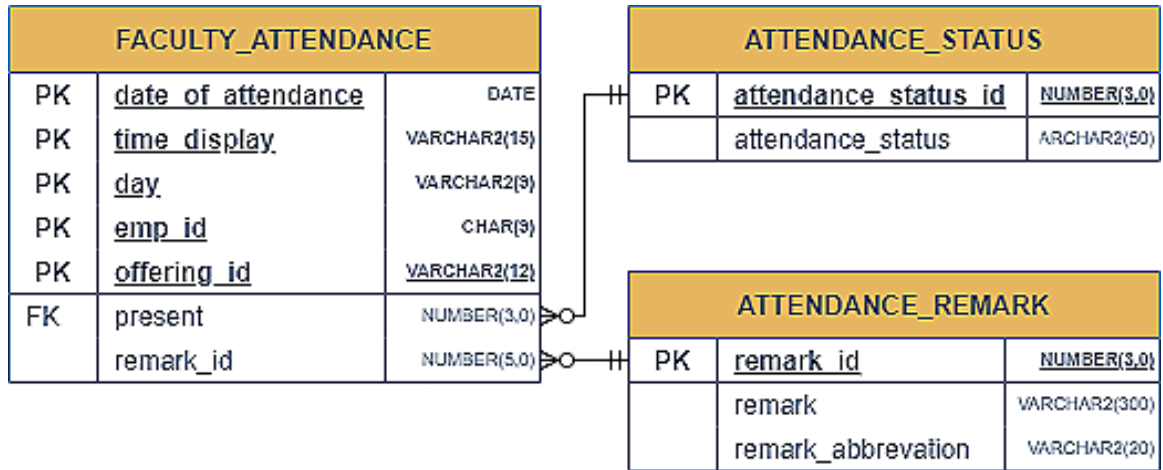


Figure 0.7: HRIS FACSYS ERD Model.

0.5 Gantt Chart

Gantt chart allows for a visual representation of the project schedule that outlines the tasks, milestones, and dependencies throughout the development time. In connection with the development of project management strategy through RAD, the HRIS application's use of a Gantt chart will help in planning and tracking the project's progress. It will break down the development process into specific tasks, assign responsibilities, and establish timelines for each phase of the project.

With this, the development team can effectively manage resources, monitor progress, and ensure that the project stays on track to meet the specified deadlines.

ADNUHRIS (CAPSTONE)

Read-only view, generated on 22 Jul 2024

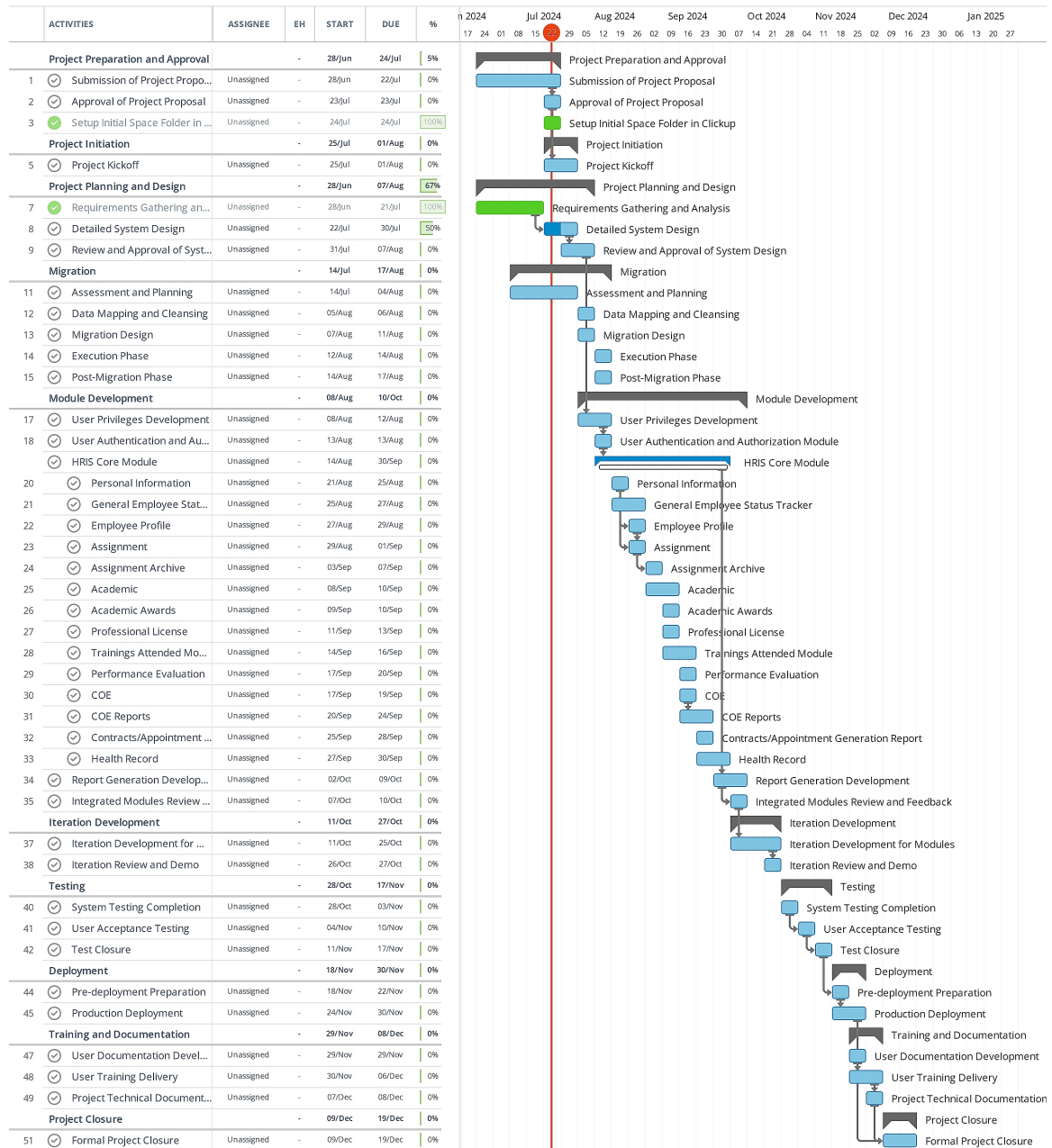


Figure 0.8: HRIS Gantt Chart Timeline.

0.6 System Snapshots

In this section, contains some of the few initial screen mock-ups for redesigning among the major services of the previous HR system. This includes samples high-fidelity wire frame made in Figma. This allows for better visualization to the expected output for the new ADNU HRIS.

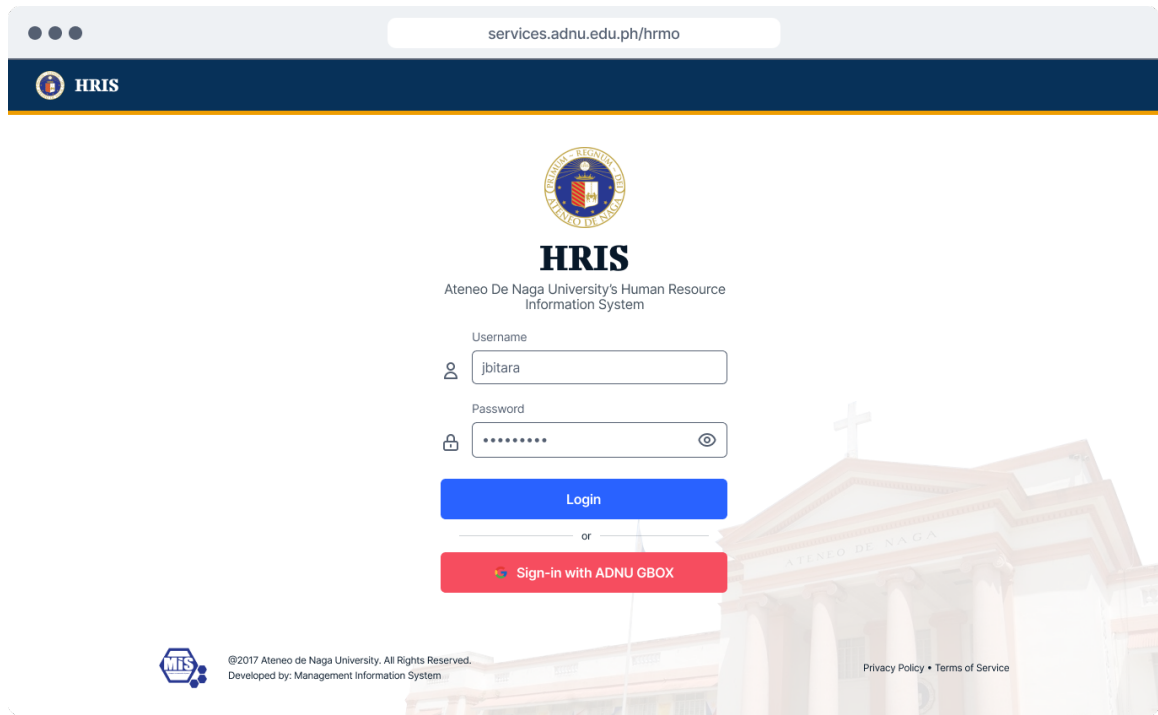


Figure 0.9: New HRIS Login Page.

The new design displays the redesigned login page. It features a clean, modern interface with input fields for username and password, as well as a prominent login button. The design emphasizes user-friendliness and security for accessing the HRIS platform.

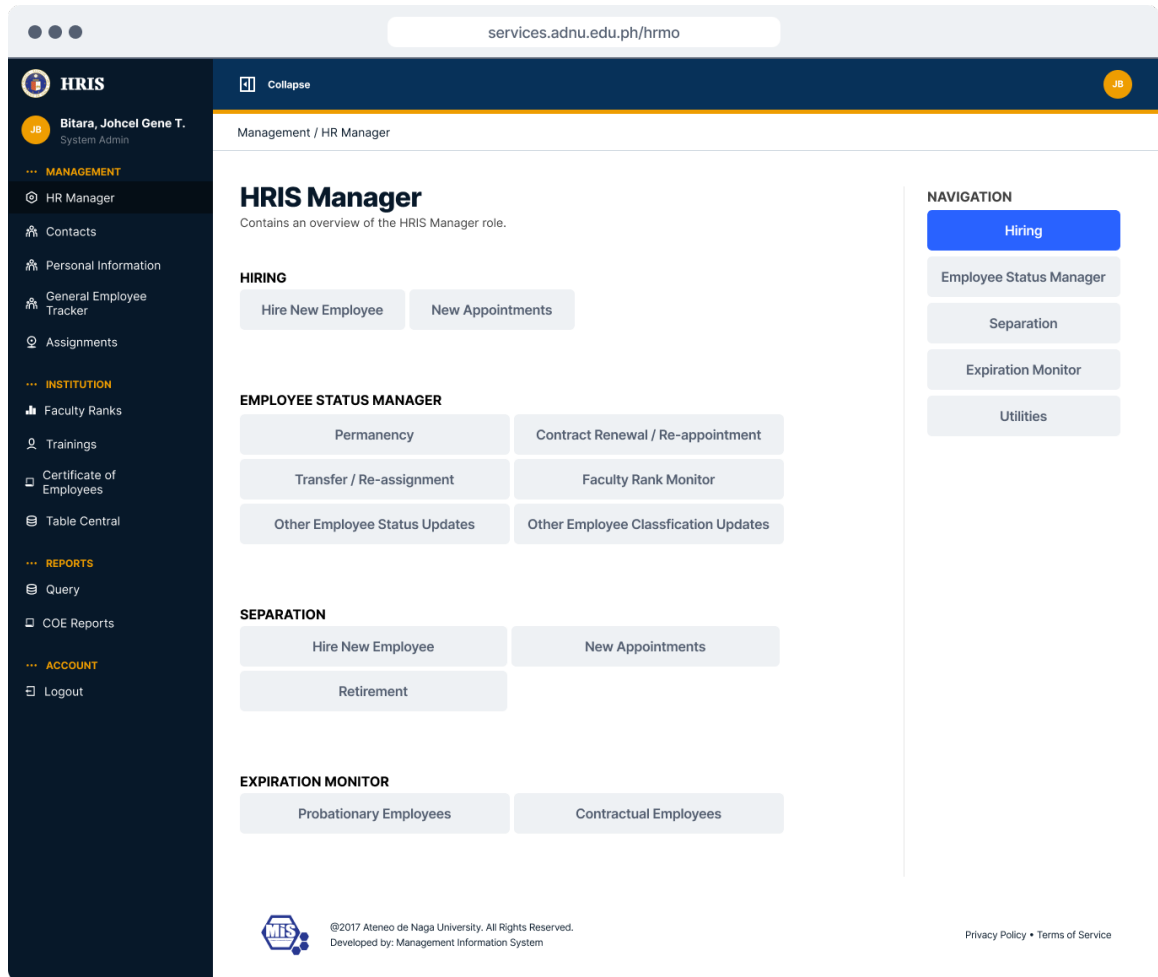


Figure 0.10: New HRIS Manager Page.

The figure presents the newly designed HRIS Manager page. This includes mainly making use of better user experience with enlarged buttons and easier navigation with the use of better UI layout.

The screenshot displays the HRIS Data Extraction interface. The sidebar on the left contains navigation links under three categories: MANAGEMENT (HR Manager, Contacts, Personal Information, General Employee Tracker, Assignments), INSTITUTION (Faculty Ranks, Trainings, Certificate of Employees, Table Central), and REPORTS (Query, COE Reports). The ACCOUNT section includes a Logout link. The main content area is titled 'Data Extraction' and includes a 'Filter Fields' dropdown, a 'Fields' section with various filters (Assignment Type, Institution, Birthdate Range, Age Between, Colleges, General Employment Status, Office, Office Sector, Academic Rank, Designation Sector, Academic Level, Employment Status, Professional License), and a 'Result' section showing a table with columns: #, Effectivity Date, Reinstatement, Action, Reason, Date Edited, Last Edited, and Action. The table currently displays 'No data available'. The bottom of the page features a footer with the HRIS logo, copyright information for Ateneo de Naga University, and links to Privacy Policy and Terms of Service.

Figure 0.11: New HRIS Data Extraction Page.

This figure showcases the new Data Extraction Page. The interface is designed to facilitate efficient retrieval of HR data, likely offering options for customizable reports, data filtering, and export

functionalities.

The screenshot displays the HRIS (Human Resource Information System) interface for the General Employment Status Tracker. The page is titled "General Employment Status Tracker" and includes a search bar for employee names. Below the search bar, there is a table showing employee statuses. The table has columns for #, Effectivity Date, Reinstatement, Action, Reason, Last Edited By, and Date Edited. The table contains four rows of data. Below the table, there is a section for "Employment Status Information" with input fields for Effectivity Date, Reinstatement Date, and Action, and a text area for Default.

#	Effectivity Date	Reinstatement	Action	Reason	Last Edited By	Date Edited
1	June 01, 1978	June 05, 1978	New Employee	I experienc..	LEJANO, Jerico Se...	9:15PM 09/05/2019
2	June 12, 2011	June 20, 2011	Absence Without Of	I experienc..	LEJANO, Jerico Se...	9:15PM 09/05/2019
3	October 31, 2011	--	Contract Expiration	Due to the ..	LEJANO, Jerico Se...	9:15PM 09/05/2019
4	October 31, 2011	--	Contract Expiration	--	LEJANO, Jerico Se...	9:15PM 09/05/2019

Employment Status Information

Effectivity Date: June 12, 2011

Reinstatement Date: June 20, 2011

Action: Absence Without Official Leave

Default: I experienced a sudden family emergency that required my immediate attention. My mother fell critically ill, and I had to rush her to the hospital, where she required constant care and support.

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Figure 0.12: New General Employment Status Tracker Page.

This figure illustrates the new General Employment Status Tracker (GEST) page. The GEST interface likely provides a comprehensive view of employee statuses across the organization. It includes employment types, contract durations, leave statuses, and other key indicators of workforce composition.

The screenshot shows the HRIS (Human Resource Information System) interface. The top navigation bar includes the HRIS logo, the user profile of Bitara, Johcel Gene T. (System Admin), and a Collapse button. The left sidebar contains a menu with sections: MANAGEMENT (HR Manager, Contacts, Personal Information), INSTITUTION (Faculty Ranks, Trainings, Certificate of Employees, Table Central), REPORTS (Query, COE Reports), and ACCOUNT (Logout). The main content area is titled 'Personal Information' and includes a 'Create New' button. Below the title is a search bar and a 'Show 10 entries' dropdown. The table displays employee information with columns: #, Employee ID, First Name, Middle Name, Last Name, Age, and Religion. The table contains 10 rows of data. At the bottom, there is a pagination bar with 'Previous', '1', '2', '3', '4', '5', '6', and 'Next' buttons. The footer includes the MIS logo, copyright information for Ateneo de Naga University, and links to Privacy Policy and Terms of Service.

#	Employee ID	First Name	Middle Name	Last Name	Age	Religion
1	HR200312304				20	Roman Catholic
2	HR202013304				24	INC
3	HR202032301				26	Muslim
4	HR200355012				30	Roman Catholic
5	HR199340021				30	Romain Catholic
6	HR199084092				29	Hindu
7	HR202100044				28	Roman Catholic
8	HR202100377				22	Roman Catholic
9	HR202100012				24	Roman Catholic

Figure 0.13: Personal Information for All Employees.

This figure displays all the basic personal information for all employees in table view. This includes their personal information. Admins can select among the employees to view more of their personal information.

This figure displays the interface for creating new personal information in the record. Admins can input the necessary information for the employee to be added to the system.

services.adnu.edu.ph/hrmo

HRIS
Bitara, Johcel Gene T.
System Admin

MANAGEMENT
HR Manager
Contacts
Personal Information
General Employee Tracker
Assignments

INSTITUTION
Faculty Ranks
Trainings
Certificate of Employees
Table Central

REPORTS
Query
COE Reports

ACCOUNT
Logout

HRIS Table Central
Contains the University's table central.

Show 10 entries

Offices	Abbreviation
Junior High School Admission and Aid Office	JHSO
Management Information System	MIS
AGRS Science and Technology and Livelihood Education Department	ASTL
College of Science, Engineering and Architecture - Dean's Office	CSE

Previous 1 2 3 4 5 6 Next

ACTION
Create New

NAVIGATION
Academic Levels
Civil Status
Colleges
Designation Sector
Employee Classification
Employment Status
Faculty Ranks
Office Sector
Offices

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Figure 0.15: New HRIS Table Central Page.

This figure displays the HRIS Table Central module wherein, managers can manage certain sectors and department information and make updates within the University.

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HRIS
Bitara, Johcel Gene T.
System Admin

MANAGEMENT

- HR Manager
- Contacts
- Personal Information
- General Employee Tracker
- Assignments

INSTITUTION

- Faculty Ranks
- Trainings
- Certificate of Employees
- Table Central

REPORTS

- Query
- COE Reports

ACCOUNT

- Logout

Institution / Certificate of Employees

Certificate of Employees

Manage and produce COE.

Title (Optional) Employee

Atty. ABAD, Antonio Trinidad Search

COE Number S.Y.

2024-0613 2024

Filter Fields

Official Receipt No. X Gross Monthly X Gross Annual X

Gross Monthly

\$5,250.00

Month and Year

June 2023

Amount in Words

Five thousand two hundred fifty dollars and zero cents

Gross Annual

\$63,000.00

From

January 20243

To

December 2023

Amount in Words

Sixty-three thousand dollars and zero cents

Official Receipt No.

2024-1852

Date Requested

June 15, 2024

Purpose

Visa application

Cancel Generate

MIS

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Figure 0.16: New HRIS Certificate of Employment Processing Page.

This interface is designed to streamline the creation and issuance of employment certificates. Managers can select employees and generate COE for each University personnel.