UNIVERSITY OF RWANDA

HUYE CAMPUS

COLLEGE OF BUSINESS AND ECONOMICS

BUSINESS INFORMATION AND TECHNOLOGY

ACADEMIC YEAR:2022-2023

NAME: UWINEZA EVELYNE

REG NO: 221020885

CLASS NO:

Group 3 SUBGRP 2

BIT level 2

PROJECT NAME: HR MANAGEMENT SYSTEM

Planning

HR Management system is an application that is used to manage Human resources (Employees), record their works, manage their positions and authorities, and manage their payments by generating their invoices, tracking their overtimes, advances and deductions.

This system will help a lot in companies employees management and new hires handling.

Design

The system is designed in a way that following stakeholders will act as following Manager(Admins):

- Add new employee/ admin/manager
- Update users data - Record employee's daily work - Generate employee's invoice(pay slip)
- Delete users
- Create new login credentials for user The app allows managers to search through the list of employees when the list is long to manage.

We are planning to make users(employee's) side of the app where they will be able to access the system, view their work status and ratings, record their overtime’s, create their invoices then send to the managers for approval

Development

Here are different tools and technologies we used while developing this app

IDE

- ✓ We have used NetBeans to develop this project

Frontend

- ✓ We have used Java swing to design and develop the frontend part of this project

Backend

- ✓ On the backend part of this app, we have used core java integrated with java swing to connect BE and FE

Database

- ✓ The database used in this project is MySQL and we have used JDBS to connect to MySQL in our local computer (via xamp/ or manual installation of MySQL)
- ✓ We have also used MySQL connector jar to connect to the Database.

Testing

Testing this app, we have tested it manually, no written tests or automated test but within a group of 5 people we tested for each edge case and made sure that the app worked like we expected. While testing we also discovered things that needs to be changed and we planned to work on that and adding new features as well.

Deployment

Installation:

- Download and install the necessary software, such as the Apache Net Beans IDE, MySQL and the Java Development Kit \JDK\ if it is not yet installed on the local computer.
- Clone or download the project to your local machine from git hub.
- Download and configure the necessary settings for the system, such as setting up MySQL Workbench and MySQL-java-connector driver.
- Open the project in the Apache Net Beans IDE and build the project to ensure that all dependencies are properly installed.
- Run the system on the local computer to ensure that it is working as expected.

We didn't deploy this app to the outside world, we have pushed our code to GitHub for us to collaborate. But we have learned different ways of deploying a java application and we are willing to deploy it anytime it may be needed.

Maintenance Phases

- Regularly conduct tests on the system to ensure that it does not break and is still working as expected.
- Provide user support and troubleshoot any issues that arise.
- Collect feedback from users and use it to make improvements to the system.

Continuously