

Industrial Internship Report on Human Resource Management Software

**Prepared by
Darren Immanuel Fernandes**

Executive Summary

This report provides details of the Industrial Internship provided by upskill Campus and The IoT Academy in collaboration with Industrial Partner UniConverge Technologies Pvt Ltd (UCT).

This internship was focused on a project/problem statement provided by UCT. We had to finish the project including the report in 6 weeks' time.

The project I chose to undertake for the Python Internship offered upskill Campus was the URL Shortener, an application developed in Python that will allow users to shorten the links they input into it. The application will take long URLs and convert them into smaller and much more manageable links using an API. Apart from that, the overall scope of this project involved implementing a database to store the mapping between original and shortened URLs, and developing functions to generate unique shortened URLs and handle redirection.

This internship gave me a very good opportunity to get exposure to Industrial problems, and to design and then implement solutions for those. It was an overall great experience to have this internship.

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Preface

During the first week of the internship, I did some research on Java, its syntax and how it worked in comparison to the other programming languages I had worked with so far. I also analyzed all the options for projects we were given to choose from, and elected to work on creating a Human Resource Management Software. Consequently, I kept the project's primary goals and its problem statement in mind as I began to develop my chosen project.

In the second week, I decided to solidify the core functionality of my project, namely Employee Management, attendance and leave. After familiarizing myself with the AWT, swing etc. libraries, I created a test program to see if it functioned as intended, which it did. I also decided to primarily use the AWT, swing library for creating the UI my project needed.

The third week was when I got to work on the appearance of my application, and the implementation of the Employee Management, Attendance, leave and the views feature in it. Much of the widgets that were used in *AWT* and *swing* are very similar to the ones used in Visual Basic, a language that I have some experience with. I learnt how to use simple widgets like *Labels*, *Entries* and *Buttons* and created a simple program using all three. With the knowledge I then had, I made a Human Resource Management Software with a basic but adequate user interface that accepted inputs, and stored them in the database.

In the fourth week, I addressed the project's requirement of database functionality. Through the use of the *MYSQL* I was able to use some standard *SQL* commands in Java, which I tested out in a sample program. In the sample program, I inserted some information into a database in *MYSQL*, created tables and wrote the code in Java in-order to enable me to add, update, delete data from the forms in the project.

I neared finalization of the coding aspect of my project in the fifth week and added some validations and verifications to the project to ensure that the code worked properly and that there were no errors involved.

The sixth week is when I thoroughly reviewed all of my progress thus far. I conducted various tests to the real-world performance of my application. I made minor changes to my code after extensive testing.

Internships, such as the one offered by upskill Campus that I am undertaking, play a significant role in career development and can have various benefits for individuals seeking to build their professional paths. First and foremost, they provide an opportunity to gain hands-on experience in a specific field or industry. They will allow individuals to apply theoretical knowledge obtained from academic studies to real-world situations. Internships offer a chance to gain valuable insights into a particular industry or professional field. You can learn about industry practices,

trends, and the day-to-day operations of the workplace. This knowledge can help you make informed decisions about your career path and develop a better understanding of the industry's expectations.

Internships allow you to explore different career paths and industries. They help you understand your interests, strengths, and weaknesses in a practical setting. This firsthand experience can help you make more informed decisions about your future career and prevent potential career changes down the road. Internships also provide excellent networking opportunities. Building relationships with professionals in your chosen field can lead to mentorship, future job opportunities, and references. Networking with colleagues, supervisors, and industry professionals can expand your professional network and open doors for future career growth.

Internships also help develop a wide range of skills, both technical and soft skills. Technical skills may include specific software proficiency, data analysis, project management, or laboratory techniques, depending on the field. Soft skills such as communication, teamwork, time management, and problem-solving are also honed through internships. In addition to the skill you've acquired, having internships on your resume demonstrates to potential employers that you have practical experience and are proactive in pursuing professional development. Internships showcase your ability to apply classroom knowledge to real-world scenarios and make you a more competitive candidate when applying for jobs.

The project I chose for my internship was the Human Resource Management Software. The problem statement pertaining to my project describes a scenario in which one wishes to **add, update, delete, view and search for the employee's details as well as maintain a record of the attendance and the leave of the employee's**. The core features of my project are as follows:

- Employee Management: This is a module that enables the user in order to add, update, delete, view and search for the employee and their details.
- Attendance: This is a module that enables the user in order to add, update, delete, view and search for the employee's attendance and manage it
- Leave: This is a module that enables the user in order to add, update, delete, view and search for the employees leave and manage it.

Keeping with its original problem statement, however, the basic objective of my project will be to shorten URLs and convert them into smaller links that are easier to use. The shortened links can be implemented into memos, emails, announcements on social media and even other projects. These links will redirect users to the original link.

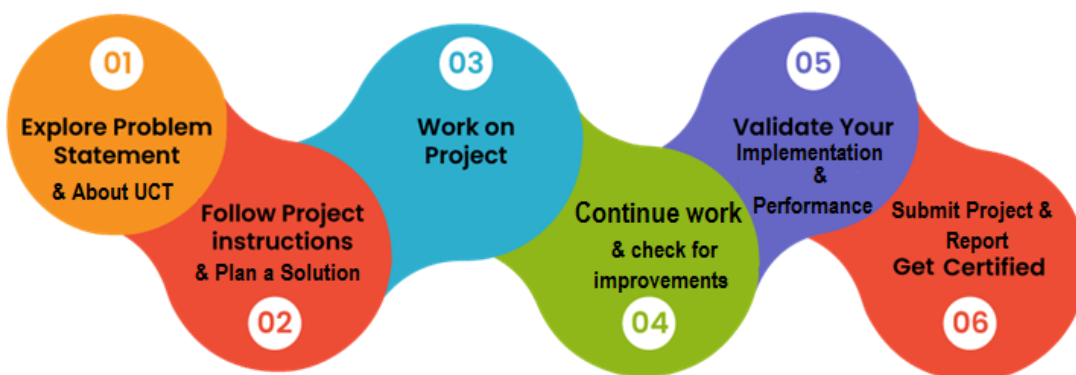
When I was required to take an internship by my college during my vacation, I was overjoyed to find a free internship offered by Upskill Campus in multiple interesting subjects like Core Java,

App Development, Digital Marketing, etc. One course I was particularly interested in was Java since I had wanted to learn the language over my vacation.

Participating in this internship or collaboration program with Upskill Campus and utilizing this opportunity will provide a number of benefits. Upskill Campus and The IoT Academy, in partnership with UniConverge Technologies offers internship programs that focus on in-demand skills and technologies in the field of IoT (Internet of Things) and other areas of programming and application design. Interns are ensured that they acquire knowledge and skills that are directly applicable in the industry.

Collaborating with established companies like UniConverge Technologies provides interns with the opportunity to work with experienced professionals and subject matter experts in the field. Interns can learn from their expertise, receive guidance, and gain insights into industry best practices. This exposure can enhance their learning experience and help them develop a deeper understanding of the subject matter.

Having experience with recognized organizations such as the likes of UniConverge Technologies will make your resume stand out and demonstrate your ability to work in a professional setting. It also signifies that you have received training and exposure to industry-specific skills, making you a more attractive candidate to potential employers. Building connections with such industry experts and like-minded individuals, can and will open doors to future career opportunities, mentorship, and professional references.



Over the course of this internship, I gained valuable insight into the real-world applications of Java. I also gained some very valuable experience in Java in a practical and hands-on approach since I had to develop a project myself using the language, a project that will be reviewed by professionals. I learnt how to implement a functional user interface into an application strictly using code, and not another GUI like in Visual Studio. I also learnt how to embed a functional database in that application. Finally, I got to create, develop and design that very application myself.

1 Introduction

1.1 About UniConverge Technologies Pvt Ltd

A company established in 2013 and working in Digital Transformation domain and providing Industrial solutions with prime focus on sustainability and RoI.

For developing its products and solutions it is leveraging various **Cutting Edge Technologies** e.g. **Internet of Things (IoT), Cyber Security, Cloud computing (AWS, Azure), Machine Learning, Communication Technologies (4G/5G/LoRaWAN), Java Full Stack, Python, Front end** etc.

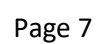


i. UCT IoT Platform ()

UCT Insight is an IOT platform designed for quick deployment of IOT applications on the same time providing valuable “insight” for your process/business. It has been built in Java for backend and ReactJS for Front end. It has support for MySQL and various NoSql Databases.

- It enables device connectivity via industry standard IoT protocols - MQTT, CoAP, HTTP, Modbus TCP, OPC UA

- Build Your own dashboard
- Analytics and Reporting
- Alert and Notification
- Integration with third party application(Power BI, SAP, ERP)
- Rule Engine



FACTORY WATCH

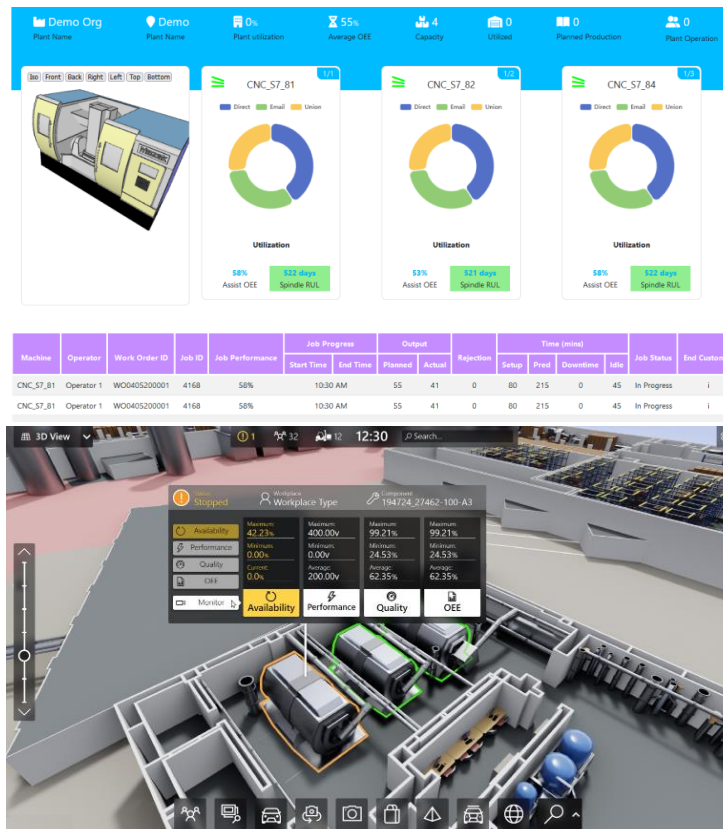
ii. Smart Factory Platform ()

Factory watch is a platform for smart factory needs.

It provides Users/ Factory

- with a scalable solution for their Production and asset monitoring
- OEE and predictive maintenance solution scaling up to digital twin for your assets.
- to unleash the true potential of the data that their machines are generating and helps to identify the KPIs and also improve them.
- A modular architecture that allows users to choose the service that they want to start and then can scale to more complex solutions as per their demands.

Its unique SaaS model helps users to save time, cost and money.



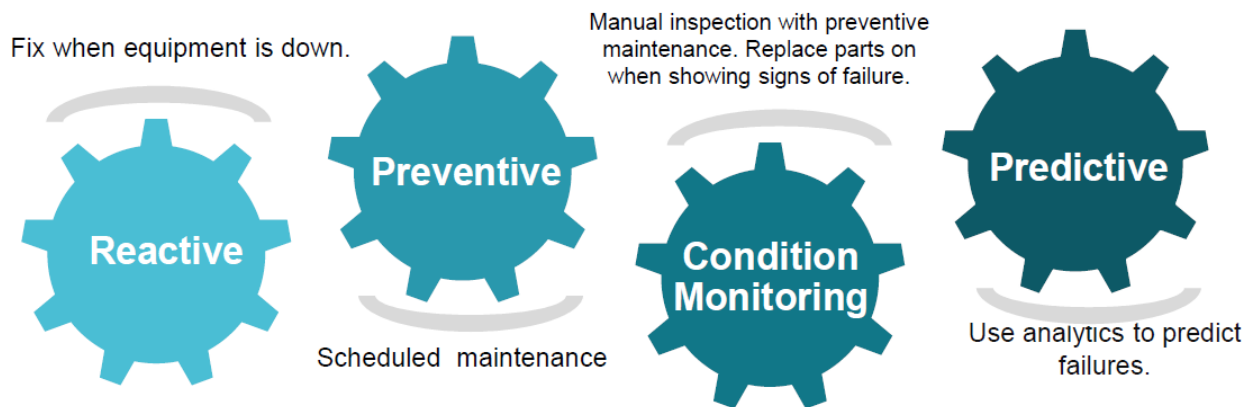


iii. LoRaWAN based Solution

UCT is one of the early adopters of LoRAWAN technology and providing solution in Agritech, Smart cities, Industrial Monitoring, Smart Street Light, Smart Water/ Gas/ Electricity metering solutions etc.

iv. Predictive Maintenance

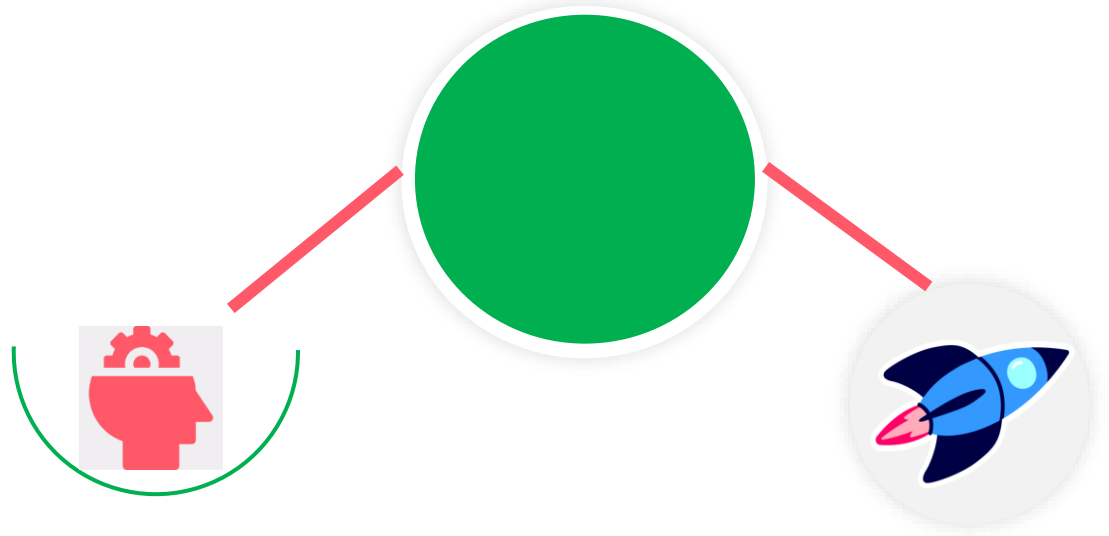
UCT is providing Industrial Machine health monitoring and Predictive maintenance solution leveraging Embedded system, Industrial IoT and Machine Learning Technologies by finding Remaining useful life time of various Machines used in production process.



1.2 About upskill Campus (USC)

upskill Campus along with The IoT Academy and in association with Uniconverge technologies has facilitated the smooth execution of the complete internship process.

USC is a career development platform that delivers **personalized executive coaching** in a more affordable, scalable and measurable way.



Seeing need of upskilling in self paced manner along-with additional support services e.g. Internship, projects, interaction with Industry experts, Career growth Services

upSkill Campus aiming to upskill 1 million learners in next 5 year

<https://www.upskillcampus.com/>

Career growth/upskilling

- Interview Preparation and skill building
- upskilling Courses
- Skill Assessment
- Profile building

Professional networking

- Alumni Connections
- Mentorship
- Discussion/QA forum

Collaboration platform

- Project collaboration
- Discussion forum
- Tech updates

Job/internship platform

- Job portal
- Internship portal
- Freelancing projects

1.3 About the IoT Academy

The IoT academy is EdTech Division of UCT that is running long executive certification programs in collaboration with EICT Academy, IITK, IITR and IITG in multiple domains.

1.4 Objectives of this Internship program

The objective for this internship program was to

- get practical experience of working in the industry.
- to solve real world problems.
- to have improved job prospects.
- to have Improved understanding of our field and its applications.
- to have Personal growth like better communication and problem solving.

1.5 Reference

- <https://userguiding.com/blog/hr-software/>
- <https://www.trustradius.com/hr-management>
- <https://www.g2.com/categories/hr>
- <https://www.forbes.com/advisor/business/software/hris-systems/>

1.6 Glossary

Class	Class is a group of objects which have common properties. It is a template or blueprint from which objects are created. It is a logical entity. It can't be physical
Object	Object is a member of a Java class. It is also known as an instance of the class. Objects are created at runtime and are real-world entities. Each object shares two characteristics: Identity and State. Object identity is a unique ID used internally by the JVM to identify each object uniquely. The state of an object is stored in variables.
Polymorphism	Polymorphism in Java is a concept that allows objects of different classes to be treated as objects of a common class. It enables objects to behave differently based on their specific class type
JDK	JDK stands for Java Development Kit. It is a software development environment that offers a collection of tools and libraries necessary for developing Java-based software applications and applets
Abstract class	An abstract class in Object-Oriented Programming (OOP) is a class that cannot be instantiated. In other words, you cannot create an object using the abstract class.
AWT	AWT stands for Abstract Window Toolkit. It is a platform-dependent API used to develop Graphical User Interface (GUI) or window-based applications in Java. Java AWT components are platform-dependent, meaning that components are displayed according to the view of the operating system.
Package	A package in Java is used to group related classes, interfaces, and sub-packages. It can be thought of as a folder in a file directory. Packages are used to avoid name conflicts and to write better maintainable code. Packages in Java can be categorized into two forms: built-in packages and user-defined packages. Built-in packages are part of the Java API and are included in the Java Development Environment.
SQL	SQL is short for Structured Query Language. It is a programming language used to manage and manipulate relational databases. SQL allows users to create, retrieve, update, and delete data in databases.
MySQL	MySQL is an open-source relational database management system (RDBMS) based on Structured Query Language (SQL) and runs on various platforms, including Linux, UNIX, and Windows.

2 Problem Statement

Human resources (HR) is a vital function of any organization, as it is responsible for managing and developing the most valuable asset of the organization: its people. However, HR processes are often complex, time-consuming, and prone to errors, especially when they are done manually or using outdated tools.

Some of the common challenges faced by HR professionals are:

- Recruiting and hiring the right talent in a competitive market
- Onboarding and training new employees effectively and efficiently
- Managing employee data, records, benefits, payroll, and compliance
- Tracking and evaluating employee performance, engagement, and satisfaction
- Developing and retaining high-performing employees and leaders
- Aligning HR goals and strategies with the organization's vision and mission

These challenges can negatively impact the productivity, profitability, and reputation of the organization, as well as the morale, motivation, and retention of its employees. Therefore, there is a need for a comprehensive, integrated, and user-friendly HR software solution that can streamline and automate HR processes, reduce costs and errors, improve data accuracy and security, enhance employee experience and satisfaction, and support strategic decision-making.

3 Existing and Proposed solution

Some of the existing solutions for Human Resource Management Software are:

- **monday.com HR:** This is a cloud-based HR software that allows you to manage all your HR processes in one platform, such as recruitment, onboarding, payroll, performance, and employee engagement. It also integrates with other tools, such as Gmail, Slack, and Zoom.
- **Paycor:** This is a unified HCM software that provides solutions for payroll, time tracking, benefits administration, talent acquisition, talent management, and analytics.
- **BambooHR:** This is an online HR software that helps you manage employee data, track time off, administer benefits, conduct performance reviews, and more. It also has a mobile app and an employee self-service portal.
- **Rippling:** This is a cloud-based HR software that connects your HR, IT, and finance systems in one place. It lets you automate tasks such as hiring, onboarding, payroll, benefits, compliance, and device management. It also integrates with over 500 apps, such as G Suite, Slack, and Salesforce.
- **Workday:** This is a cloud-based HCM software that helps you manage your global workforce with solutions for human capital management, talent management, payroll, time tracking, benefits, and more. It also provides insights and analytics to help you make data-driven decisions.
- **Zenefits:** This is an online HR software that simplifies HR processes for small and medium-sized businesses. It offers solutions for payroll, benefits, time and attendance, performance management, compliance, and more. It also has a mobile app and a dashboard for employees and managers.
- **ClickUp:** This is a cloud-based project management software that can also be used for HR purposes. It allows you to create tasks, assign roles, track progress, collaborate with team members, and more. It also integrates with other tools, such as Gmail, Slack, and Zoom.

Some of the downsides of these existing solutions in general are:

- They can be expensive or have hidden fees
- They can have limited customization or flexibility
- They can have compatibility or integration issues with other systems or tools
- They can have security or privacy risks
- They can have steep learning curves or poor user interfaces
- They can have bugs or glitches
- They can have poor customer support or service

My proposed Human Resource Management System Software is a solution that simplifies and streamlines HR processes for small and medium-sized businesses. It allows HR professionals to easily add, update, and delete employee information, as well as track and manage their attendance and leave. It also provides reports and analytics to help HR professionals monitor and improve employee performance, engagement, and satisfaction. Unlike other HR software solutions, my Human Resource Management System Software is:

- Customizable and flexible: It can be tailored to fit the specific needs and preferences of each business.
- Secure and private: It uses encryption and authentication to protect the data and privacy of the business and its employees.
- User-friendly and intuitive: It has a simple and elegant user interface that makes it easy to use and navigate.
- Reliable and responsive: It has minimal bugs or glitches and offers fast and friendly customer support.

Its functionality is as follows:

- **Employee management:** You can add, update, delete, view and search for employee information, such as personal details, contact information, job role, etc.
- **Attendance Management:** You can track and manage the attendance of your employees, such as when the employee was present or when they were absent.
- **Leave Management:** You can track and manage the leave of your employees, such as when the employees have taken a leave or vacation for a certain number of days.

As such, these are the clear advantages of my project:

- It saves time and money by automating and streamlining HR processes and tasks
- It reduces errors and risks by ensuring data accuracy and compliance
- It improves productivity and profitability by enhancing employee performance, engagement, and satisfaction

3.1 Code submission (Github link)

<https://github.com/Megatron482/HRMS/tree/main/HRM>

3.2 Report submission (Github link)

<https://github.com/Megatron482/HRMS/blob/main/Final%20Report.pdf>

4 Proposed Design/ Model

Some designs and models directly pertaining to my project have been provided below:

4.1 High Level Diagram

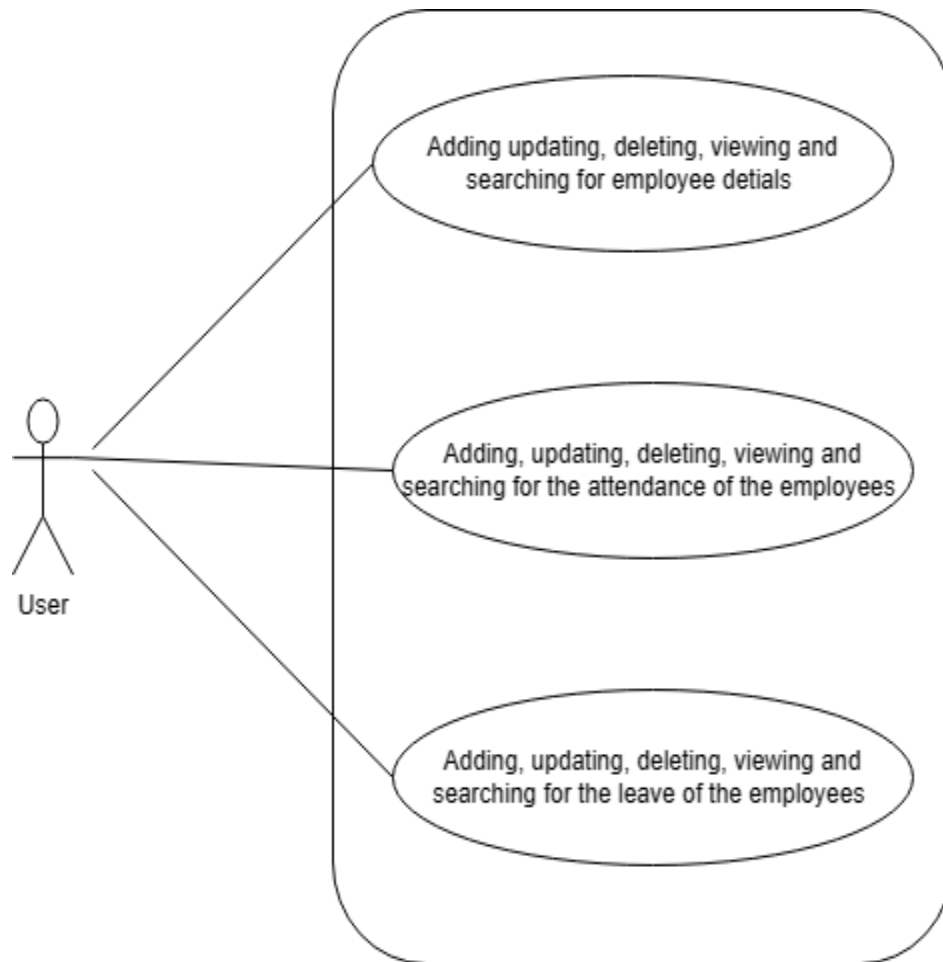


FIGURE 1: HIGH LEVEL USE CASE DIAGRAM

4.2 Interfaces

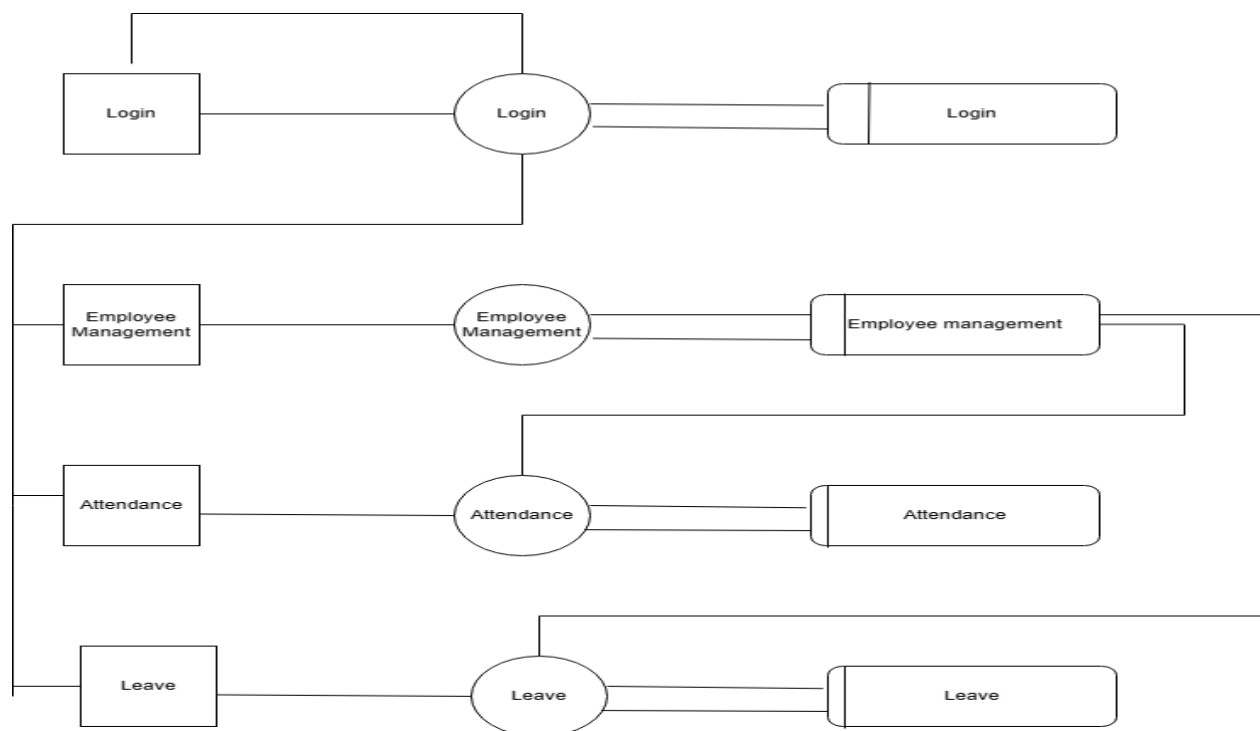


FIGURE 2: LEVEL-1 DATA FLOW DIAGRAM

5 Performance Test

Performance testing holds immense significance in any project, ensuring optimal functionality and an excellent user experience. By subjecting the system to rigorous evaluations, valuable insights are gained into its responsiveness, scalability, and efficiency. Performance testing identifies and eliminates potential bottlenecks, ensuring proper functioning of database storage, API integration, and the user interface.

5.1 Test Cases

The following are some tests and test cases representing all the possible interactions a user could have with the application:

Serial No.	Test Scenario Name	Test Data	Expected Result
1	Nothing-I/P	No input (empty field) is entered and the “Add” button is clicked.	Error message displaying enter the details
2	Invalid-email id	When an invalid email id is entered by the user	Error message displaying invalid email id
3	Invalid-phone no	When an invalid phone number is entered by the user	Error message displaying invalid phone number
4	Invalid-employee id	When an invalid employee id is entered by the user while searching for an employee’s data	Error message displaying that an invalid Eid
5	Clicking the add button	When a user clicks on the add button after entering all the details.	A dialog box opens and displays employee added successfully
6	Clicking the update button	When a user clicks on the update button after update some values of the employees.	A dialog box opens and displays employee updated successfully
7	Clicking on the delete button	When a user selects the row that they want to delete a click on delete buttons.	A dialog box opens and displays employee deleted successfully
8	Clicking on the search button	When a user enters the employee id whose details they want to search.	It displays the details of the employee in the table based on the employee id that has been entered
9	Clicking on clear	When a user clicks the clear button	It will clear or erase all the details that the user has entered.

5.2 Test Procedure

- Test Objective: To verify that the HR system can perform the following functions: employee management, attendance and leave management.
- Test Scope: To cover all the features and modules of the HR system, as well as the user interface and user experience.
- Test Data: To use realistic and valid data for employees, attendance, leave.
- Test Cases: To use the following test cases for each function of the HR system:

Employee management:

- Add a new employee with valid information
- Update an existing employee with valid information
- Delete an existing employee with valid information
- View an existing employee with valid information
- Search for an existing employee with valid criteria

Attendance and leave management:

- Track the attendance of an existing employee with valid date and time
- Manage the leave of an existing employee with valid type and duration
- Set and enforce the attendance and leave policies and rules with valid parameters
- View the attendance and leave records of an existing employee with valid date
- Search for the attendance and leave records of an existing employee with valid

5.3 Performance Outcome

The final results and outcomes of all the test cases listed earlier are in the below table

Serial No.	Test Scenario Name	Actual Result	Final Outcome
1	Nothing-I/P	Error message displaying enter the details	Pass
2	Invalid-email id	Error message displaying invalid email id	Pass
3	Invalid-phone no	Error message displaying invalid phone number	Pass
4	Invalid- employee id	Invalid- employee id	Pass
5	Clicking the add button	A dialog box opens and displays employee added successfully	Pass
6	Clicking the update button	A dialog box opens and displays employee updated successfully	Pass
7	Clicking on the delete button	A dialog box opens and displays employee deleted successfully	Pass
8	Clicking on the search button	It displays the details of the employee in the table based on the employee id that has been entered	Pass
9	Clicking on clear	It will clear or erase all the details of the user.	Pass

6 My learnings

Through my internship in Java and my Java project for Human Resource Management System, I have learned and improved the following:

- **Java programming skills:** I have learned how to use various Java features, such as classes, objects, methods, inheritance, polymorphism, interfaces, exceptions, collections, generics, and streams. I have also improved my coding style, syntax, and conventions.
- **Database skills:** I have learned how to use MySQL as the database for my project. I have learned how to create, modify, and query tables, as well as how to use primary keys, foreign keys, indexes, and constraints. I have also learned how to use JDBC to connect and interact with the database from my Java code.
- **User interface skills:** I have learned how to use Swing as the graphical user interface for my project. I have learned how to create and customize various components, such as frames, panels, buttons, labels, text fields, tables, and dialogs. I have also learned how to use layout managers, event listeners, and action handlers.
- **Software engineering skills:** I have learned how to apply the principles and practices of software engineering to my project. I have learned how to analyze the requirements, design the architecture, implement the functionality, test the quality, and document the code. I have also learned how to use tools such as Eclipse IDE, Git version control, and JUnit testing framework.
- **Problem-solving skills:** I have learned how to solve various problems and challenges that I encountered during my project. I have learned how to research online sources, such as Stack Overflow, Oracle documentation, and YouTube tutorials. I have also learned how to debug and fix errors and bugs in my code.
- **Communication skills:** I have learned how to communicate effectively with my mentor and peers during my internship. I have learned how to ask questions, give feedback, present my work, and collaborate on tasks.

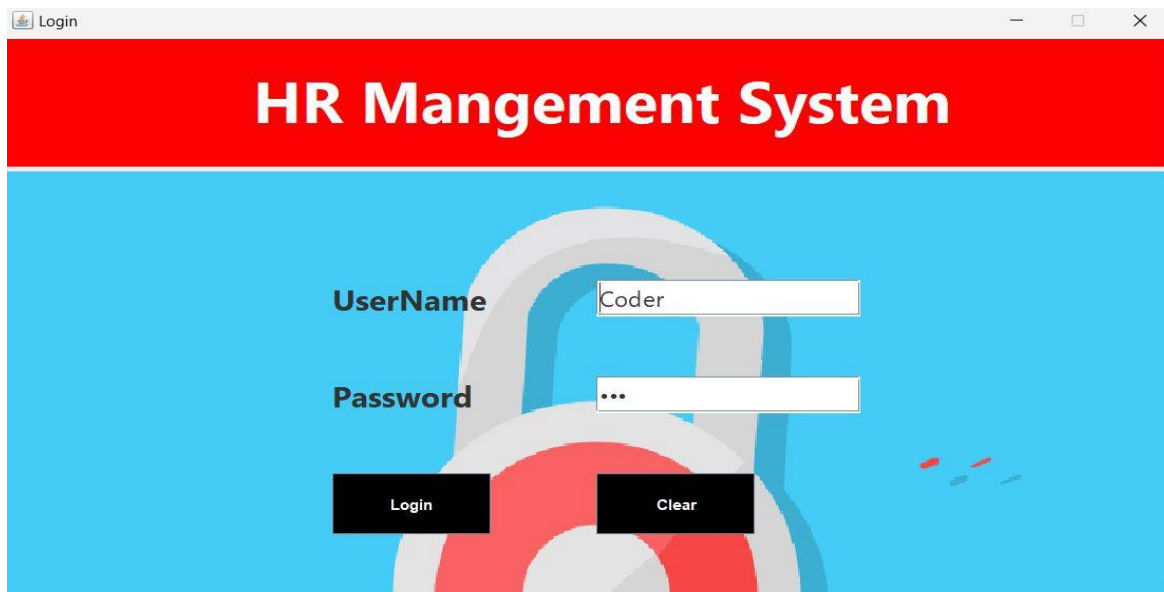
7 Future work scope

Some of the possible future work scope for my project are:

- Adding more features and modules to the HR system, such as payroll, performance management, training, and employee engagement. These features and modules would allow the HR system to cover more aspects of the employee lifecycle and provide more value to the organization and its employees. For example, payroll would automate the calculation and distribution of salaries and taxes, performance management would facilitate the setting and tracking of goals and feedback, training would enable the delivery and assessment of learning content and courses, and employee engagement would measure and improve the satisfaction and retention of employees.
- Improving the user interface and user experience of the HR system, such as using more colors, icons, animations, and tooltips. These improvements would make the HR system more attractive, intuitive, interactive, and user-friendly. For example, colors would create contrast and hierarchy, icons would convey meaning and functionality, animations would add motion and feedback, and tooltips would provide guidance and information.
- Implementing security and authentication mechanisms to the HR system, such as using encryption, hashing, salting, and tokens. These mechanisms would protect the data and privacy of the organization and its employees from unauthorized access or modification. For example, encryption would transform the data into unreadable format, hashing would generate unique identifiers for the data, salting would add random characters to the data, and tokens would verify the identity of the users.
- Integrating the HR system with other systems and tools, such as email, calendar, chatbot, or AI. This would allow the HR system to communicate and exchange data with other systems and tools that are relevant to HR processes and tasks. This would provide benefits such as automation, efficiency, accuracy, and intelligence. For example, automation would reduce manual work and human errors by performing repetitive or routine tasks automatically, efficiency would save time and resources by streamlining workflows and processes, accuracy would improve data quality and consistency by eliminating discrepancies or inconsistencies, and intelligence would enhance decision-making and problem-solving by providing insights and recommendations.

8 Screenshots

Login



The screenshot shows a web browser window titled "Login". The page has a red header with the text "HR Mangement System". Below the header, there is a blue background with a large, stylized padlock graphic. The login form consists of two input fields: "UserName" with the value "Coder" and "Password" with a masked value "...". Below the input fields are two buttons: "Login" and "Clear".

Dashboard



Employee Management

HR Mangement System

Employee Mangement

Department:

Employee ID:

Name:

Date of Birth:

Gender: ☐ Male ☐ Female

Address:

Phone No.:

Email ID:

Position:

Experience:

Qualification:

View

HR Mangement System

Employee Mangement View

Enter the ID:

eid	ename	dept	dob	gender	address	phoneno	emailid	position	experien	qualificati
401	Darren	IT	06/09/...	Male	Bangal...	88674...	daves...	Progra...	3	BCA

Attendance



HR Management System

Attendance

Employee Management

Attendance

Leave

Department:

Employee ID:

Name:

Attendance: ☐ Present ☐ Absent

View



HR Management System

Attendance View

Employee Management

Attendance

Leave

Enter the ID:

eid	ename	dept	attendance	date	time
401	Darren	IT	Present	2023-07-17	16:27:45

Leave

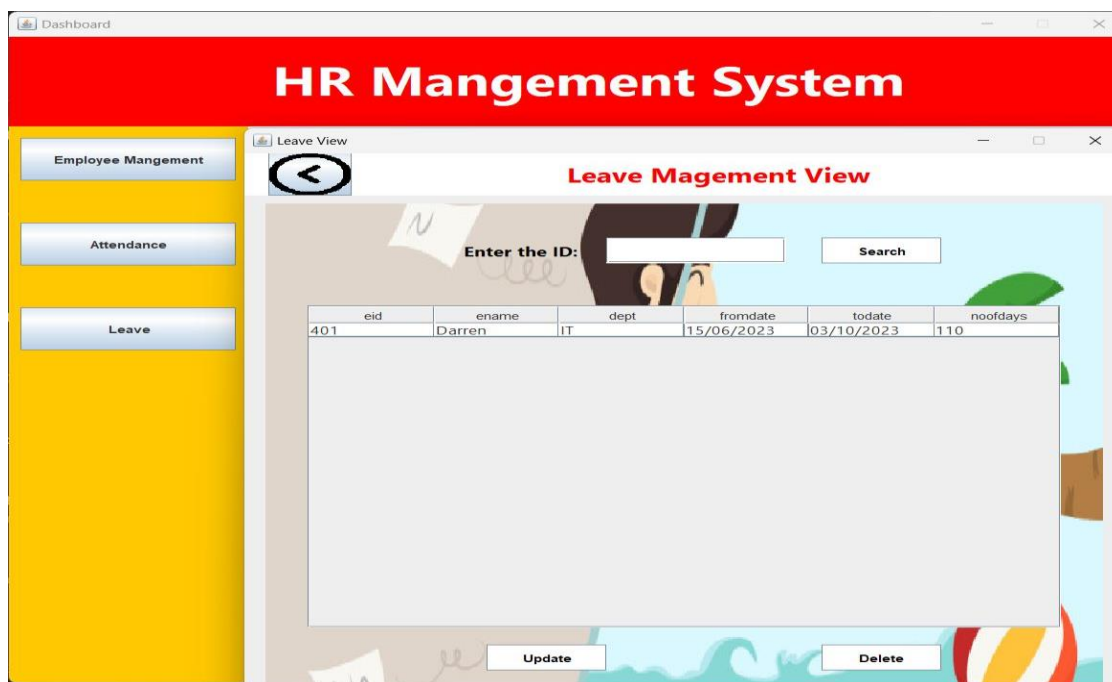


The screenshot shows the 'Leave' form within the HR Management System. The form is titled 'Leave' and has a red header bar with the text 'HR Mangement System'. On the left, there is a yellow sidebar with buttons for 'Employee Mangement', 'Attendance', and 'Leave'. The main form area has a light blue background with a cartoon illustration of a man in a white shirt and blue pants, holding a briefcase and walking towards a beach with a palm tree and a beach ball. The form fields are as follows:

- Department:
- Employee ID:
- Name:
- From Date:
- To Date:
- No. of Days:

At the bottom of the form, there are four buttons: 'Add', 'Update', 'Clear', and 'View'.

View



The screenshot shows the 'Leave Management View' within the HR Management System. The form is titled 'Leave Management View' and has a red header bar with the text 'HR Mangement System'. On the left, there is a yellow sidebar with buttons for 'Employee Mangement', 'Attendance', and 'Leave'. The main form area has a light blue background with a cartoon illustration of a man in a white shirt and blue pants, holding a briefcase and walking towards a beach with a palm tree and a beach ball. The form fields are as follows:

- Enter the ID:
- Search:

Below the search fields, there is a table with the following data:

eid	ename	dept	fromdate	todate	noofdays
401	Darren	IT	15/06/2023	03/10/2023	110

At the bottom of the table, there are two buttons: 'Update' and 'Delete'.