## HR Management Automation



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# **Abstract**

This project aims to automate key HR processes, streamlining operations and enhancing efficiency. By automating tasks, we can free up time for more strategic initiatives.

# Introduction

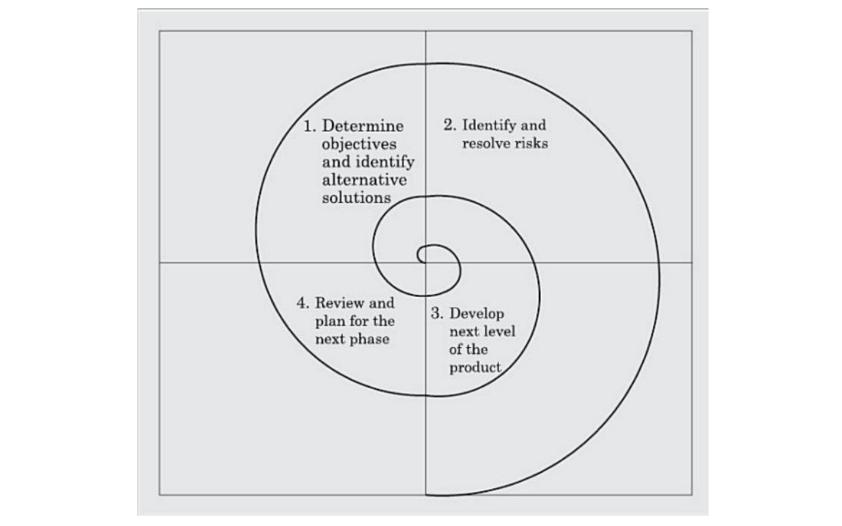
Human Resource Management (HRM) is the strategic approach to managing an organization's employees to achieve its goals. It involves recruiting, training, and developing staff, managing performance, and ensuring compliance with labor laws. HRM aims to maximize employee performance and satisfaction while aligning their efforts with the organization's objectives. Effective HRM fosters a positive work culture and enhances overall productivity. It is essential for the long-term success and growth of any organization

## **Spiral Model**

The Spiral Model is an iterative and risk-driven approach that combines elements of both design and prototyping-in-stages. It is particularly effective for managing complex and evolving projects, making it well-suited for HR resource management.

#### **Key Features:**

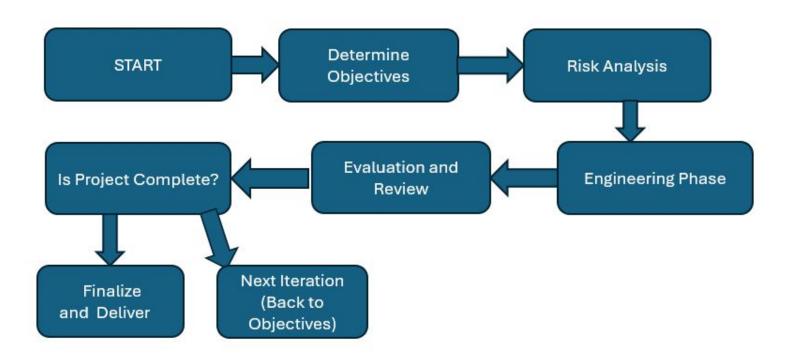
- 1. **Iterative Development**: The model allows for continuous refinement and improvement of HR processes through repeated cycles.
- 2. **Risk Management**: Each iteration includes a risk assessment phase, helping to identify and mitigate potential issues early.
- 3. **Flexibility**: The model adapts to changes in requirements and organizational needs, making it ideal for dynamic HR environments.
- Stakeholder Involvement: Regular feedback from stakeholders ensures that the HR processes align with organizational goals and employee needs.



# Why Spiral Model?

- Continuous Improvement: The iterative nature allows HR teams to continuously refine their strategies and processes based on feedback and changing requirements.
- Proactive Risk Management: By identifying risks early in each cycle, HR teams can address potential issues before they escalate.
- Adaptability: The model's flexibility makes it easier to adapt to new HR trends, technologies, and regulatory changes.
- Enhanced Collaboration: Regular stakeholder involvement fosters better communication and collaboration within HR teams and across the organization.

### FLOW CHART OF SPIRAL MODEL:



## **Functions and Descriptions**

#### Recruitment

Automated screening, candidate tracking, interview scheduling, and offer management to efficiently fill open positions.

#### Payroll Processing

Automatic calculation and disbursement of salaries, deductions, and taxes, ensuring timely and accurate payroll payments.

#### **Employee Records Management**

Centralized database for storing and managing employee information, including contact details, employment history, training records, and performance evaluations.

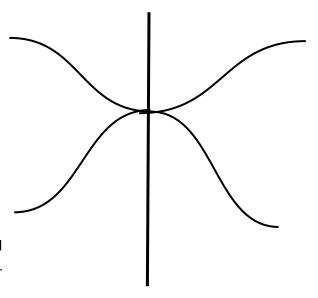
## **Learning Outcomes**

#### <u>Understanding and</u> <u>Automating HR Processes</u>

Gaining a comprehensive understanding of HR processes and how automation can streamline operations.

#### **Utilizing Tools and Technologies**

Learning to implement and leverage various software tools and technologies to automate HR tasks.



#### **Ensuring Data Security**

Understanding and implementing best practices for data security and privacy in the context of HR automation.

#### **Improving Efficiency and Managing Change**

Assessing the impact of automation on HR efficiency, and effectively managing the transition to new processes and technologies.

### **Software Tools and Techniques**

#### **Cloud Platforms**

Utilize cloud-based HR management systems like Workday, ADP, or SAP SuccessFactors to ensure scalability and data security.

#### **Database Management Systems**

Employ robust database systems like SQL Server or MySQL to manage and store employee data securely and efficiently.

#### **Employee Records**

Database design and documentation for storing and managing employee information securely and efficiently.

#### **Performance Evaluation**

Online performance review platform with features for setting goals, providing feedback, and generating performance reports.

#### **User Interface**

User-friendly interface for the HR automation system, including employee self-service portals and HR administrator dashboards.

# DELIVERABLES

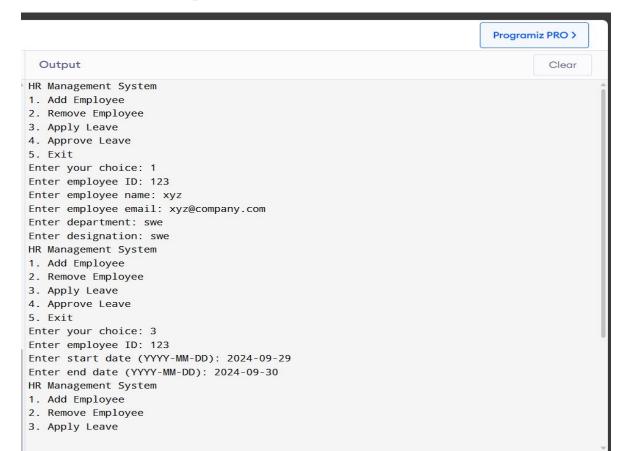
#### <u>Payroll</u>

Automated payroll processing system, including integration with existing payroll providers and reporting capabilities.

#### **Benefits System**

Integrated benefits administration system, allowing employees to enroll in benefits, manage claims, and access relevant information.

# Implementation



Output	Clear
HR Management System	
1. Add Employee	
2. Remove Employee	
3. Apply Leave	
4. Approve Leave	
5. Exit	
Enter your choice: 1	
Enter employee ID: 234	
Enter employee name: xyz	
Enter employee email: xyz@gmail.com	
Enter department:	
Enter designation: swe	
HR Management System	
1. Add Employee	
2. Remove Employee	
3. Apply Leave	
4. Approve Leave	
5. Exit	

Enter your choice: 5

=== Code Execution Successful ===

#### CHALLENGES AND LIMITATIONS OF HR AUTOMATION

- Initial Setup and Integration: Integrating new tools with existing systems can be complex and time-consuming.
- . **Change Management**: Employees may resist changes to established workflows and processes.
- . **Data Security and Privacy Concerns**: Storing sensitive employee information digitally requires stringent security measures.
- . **Over-reliance on Technology**: An overemphasis on automation can lead to a lack of personal interaction in HR processes.
- . **Resistance from Employees**: Employees may be hesitant to adopt new technologies, particularly if they are unfamiliar with them

## Conclusion

Both HRM and software models are crucial for the success of modern organizations, ensuring that both human and technical resources are utilized efficiently and effectively. They complement each other by ensuring that the right people are in place to develop and manage the right software solutions.

## Reference

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- https://www.researchgate.net/publication/366604364\_HU
  MAN\_RESOURCE\_MANAGEMENT\_PRACTICAL\_GUID
  E FOR QUICK REFERENCE

## Thank You