



# **Project Submission Report**

**Title of the Project:**

**Human Resource  
Management System**



## 2. Brief on the project-

The HRMS is designed to facilitate efficient management of employee information, attendance records, and leave management for organizations. It should provide various functionalities for HR administrators to perform employee related tasks effectively

### 3. Deliverables of the project-

#### **Functionality and User Interaction:**

The HRMS project provides a menu-driven console interface that allows HR personnel to interact with the system. Upon running the application, the user is presented with a menu containing options for each functionality. The user can enter the corresponding number to access the desired feature.

**Adding Employees:** HR personnel can add new employees to the system by providing their name, employee ID, designation, department, and contact information.

**Viewing Employee Details:** This option displays a list of all employees stored in the system along with their details.



**Updating Employee Details:** HR personnel can update employee information, including their name, designation, department, and contact information, by providing the employee's ID.

**Deleting Employees:** Users can delete an employee from the system by providing their employee ID. **Marking Attendance:** HR personnel can mark the attendance of employees by specifying their employee ID and attendance status (Present, Absent, or Leave).

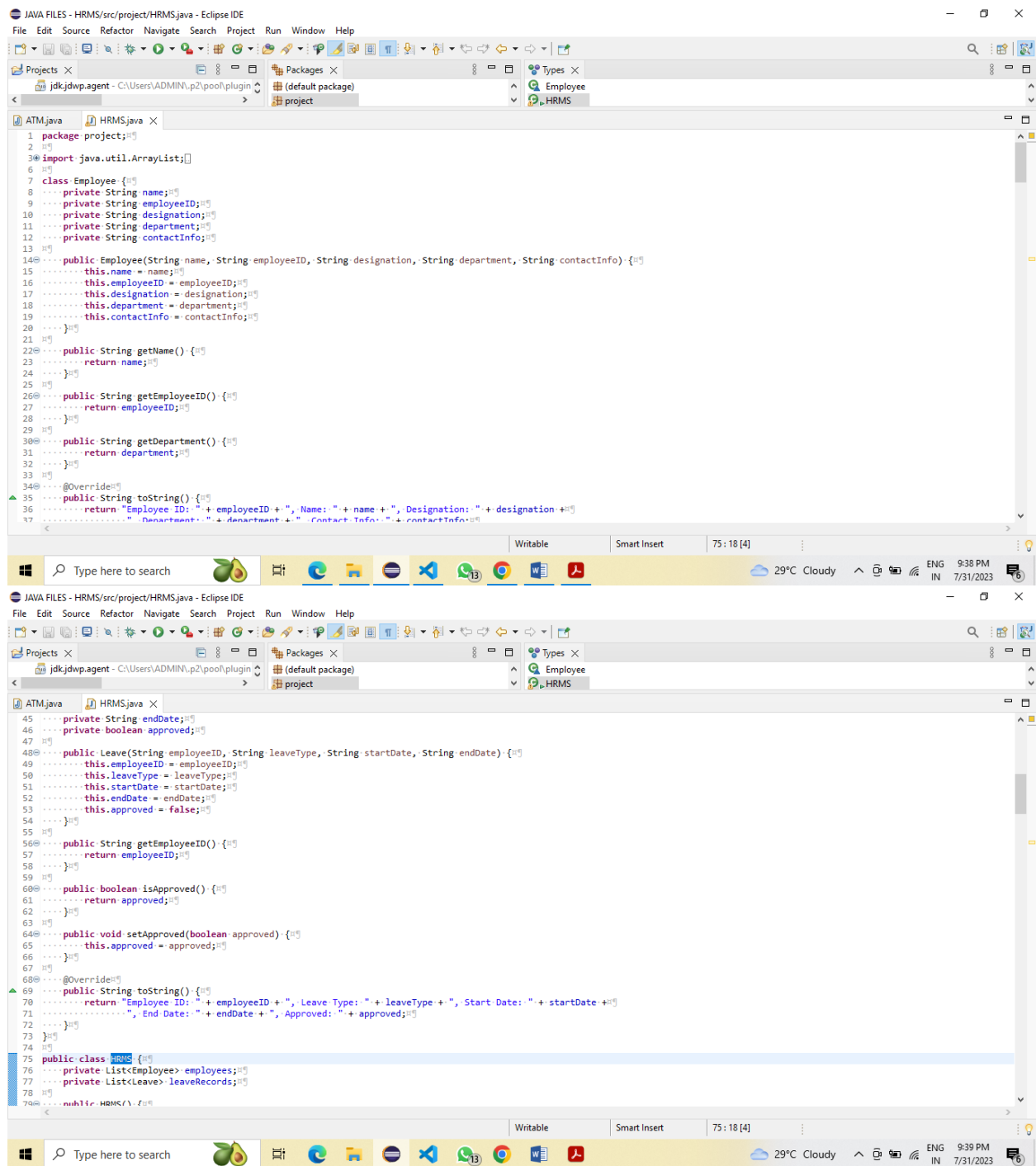
**Adding Leave Requests:** Employees can submit leave requests by providing their employee ID, leave type, start date, and end date.

**Viewing Leave Records:** This option displays a list of all leave requests along with their details, including the approval status.

**Approving Leave Requests:** HR personnel can approve leave requests by providing the corresponding leave request ID.

**Rejecting Leave Requests:** HR personnel can reject leave requests by providing the corresponding leave request ID. **Searching Employees:** HR personnel can search for employees based on their name, employee ID, or department.

# Screenshots of the IDE:



```
JAVA FILES - HRMS/src/project/HRMS.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

jdtkdwp.agent - C:\Users\ADMIN\p2\pool\plugin
project

ATM.java HRMS.java
90 .....if (employees.isEmpty()) {
91 .....    System.out.println("No employee records found.");
92 .....} else {
93 .....    for (Employee employee : employees) {
94 .....        System.out.println(employee);
95 .....    }
96 .....}
97 .....}
98 .....}
99 @ .....public void updateEmployee(String employeeID) {
100 .....    boolean found = false;
101 .....    for (Employee employee : employees) {
102 .....        if (employee.getEmployeeID().equalsIgnoreCase(employeeID)) {
103 .....            Scanner scanner = new Scanner(System.in);
104 .....            System.out.print("Enter new name: ");
105 .....            String newName = scanner.nextLine();
106 .....            System.out.print("Enter new designation: ");
107 .....            String newDesignation = scanner.nextLine();
108 .....            System.out.print("Enter new department: ");
109 .....            String newDepartment = scanner.nextLine();
110 .....            System.out.print("Enter new contact information: ");
111 .....            String newContactInfo = scanner.nextLine();
112 .....            employee = new Employee(newName, employeeID, newDesignation, newDepartment, newContactInfo);
113 .....            found = true;
114 .....            System.out.println("Employee details updated successfully.");
115 .....            break;
116 .....        }
117 .....    }
118 .....}
119 .....if (!found) {
120 .....    System.out.println("Employee not found.");
121 .....}
122 .....}
123 .....}
124 @ .....public void deleteEmployee(String employeeID) {
```

```
Writable Smart Insert 75:18 [4]
Type here to search
29°C Cloudy 9:39 PM 7/31/2023

JAVA FILES - HRMS/src/project/HRMS.java - Eclipse IDE
File Edit Source Refactor Navigate Search Project Run Window Help

jdtkdwp.agent - C:\Users\ADMIN\p2\pool\plugin
project

ATM.java HRMS.java
168 .....}
169 .....}
170 .....}
171 @ .....public void approveLeave(String leaveID) {
172 .....    boolean found = false;
173 .....    for (Leave leave : leaveRecords) {
174 .....        if (leave.getEmployeeID().equalsIgnoreCase(leaveID) && !leave.isApproved()) {
175 .....            leave.setApproved(true);
176 .....            found = true;
177 .....            System.out.println("Leave request approved for Employee ID: " + leaveID);
178 .....            break;
179 .....        }
180 .....    }
181 .....    if (!found) {
182 .....        System.out.println("Leave request not found or already approved.");
183 .....    }
184 .....}
185 .....}
186 @ .....public void rejectLeave(String leaveID) {
187 .....    boolean found = false;
188 .....    for (Leave leave : leaveRecords) {
189 .....        if (leave.getEmployeeID().equalsIgnoreCase(leaveID) && !leave.isApproved()) {
190 .....            leaveRecords.remove(leave);
191 .....            found = true;
192 .....            System.out.println("Leave request rejected for Employee ID: " + leaveID);
193 .....            break;
194 .....        }
195 .....    }
196 .....    if (!found) {
197 .....        System.out.println("Leave request not found or already approved.");
198 .....    }
199 .....}
200 .....}
201 @ .....public void searchEmployee(String searchQuery) {
202 .....    boolean found = false;
203 .....}
```

Java IDE screenshot showing HRMS.java code and console output.

**HRMS.java Code:**

```
285 ..... hrms.addLeave(leave);
286 ..... break;
287 ..... case 7:
288 ..... hrms.viewLeaveRecords();
289 ..... break;
290 ..... case 8:
291 ..... System.out.print("Enter leave request ID to approve: ");
292 ..... String approveLeaveID = scanner.nextLine();
293 ..... hrms.approveLeave(approveLeaveID);
294 ..... break;
295 ..... case 9:
296 ..... System.out.print("Enter leave request ID to reject: ");
297 ..... String rejectLeaveID = scanner.nextLine();
298 ..... hrms.rejectLeave(rejectLeaveID);
299 ..... break;
300 ..... case 10:
301 ..... System.out.print("Enter search query (name, employee ID, or department): ");
302 ..... String searchQuery = scanner.nextLine();
303 ..... hrms.searchEmployee(searchQuery);
304 ..... break;
305 ..... case 0:
306 ..... System.out.println("Exiting HRMS. Goodbye!");
307 ..... break;
308 ..... default:
309 ..... System.out.println("Invalid choice. Please try again.");
310 ..... break;
311 ..... }
312 .....
313 ..... System.out.println();
314 ..... }
315 ..... scanner.close();
316 ..... }
317 ..... }
318 ..... }
```


**Console Output:**

```
HRMS (3) [Java Application] C:\Users\ADMIN\p2\pool\plugins\org.eclipse.justi.openjdk.hotspot.jre.full.win32.x86_64.17.0.6.v20230204-1729\jre\bin\javaw.exe (Jul 31, 2023, 9:39:22 PM) [pid: 7580]
----- HRMS Menu -----
1. Add Employee
2. View Employee Details
3. Update Employee Details
4. Delete Employee
5. Mark Attendance
6. Add Leave Request
7. View Leave Records
8. Approve Leave
9. Reject Leave
10. Search Employee
0. Exit HRMS
Enter your choice:
```

**Conclusion:** The HRMS project is a basic yet functional application that provides essential HR-related functionalities. It demonstrates core Java concepts such as classes, objects, lists, and user interaction through a console interface. The system allows HR personnel to efficiently manage employee records, attendance, and leave requests. However, for real-world application, additional features like user authentication, database integration, and error handling should be considered. Nonetheless, the project serves as a valuable learning exercise and can be expanded upon to meet specific organizational requirements.

## 4. Resources





**Software:** Eclipse IDE.

**References:** YouTube, Upskill Campus Videos

## 5. Personal Details-

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