



## Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

### Student Kit

#### Effort Tracking system

##### Objective

The aim is to develop an Effort Tracking System using Django and React. It allows efficient management of employee information, attendance, and daily activity tracking. The goal is to streamline HR operations with a responsive interface and real-time data management.

##### Requirements Specification (RS) :-

Sr No.	Requirement	Essential/Desirable	Description	Remarks
RS1	Employee Registration	Essential	Allow admins to add new employees with personal and job-related details.	Includes fields like name, ID, etc.
RS2	Attendance Tracking	Essential	Enable daily attendance marking for each employee.	Date-wise entry maintained
RS3	Leave Management	Essential	Allow employees to apply for leaves and admins to approve/reject them.	Tracks leave count and status.
RS4	Role-Based Access	Essential	Different dashboards and permissions for admin and employee users.	Admin has full access.
RS5	Activity Monitoring	Essential	Log and display employee activities (e.g., work logs, login times).	Can be expanded further
RS6	Employee Dashboard	Desirable	Provide a dashboard for employees to view their attendance and leave status.	User-friendly interface.
RS7	Admin Dashboard	Essential	Admin can view all employees, approve leaves, and manage records.	Overview of system status
RS8	Notifications	Desirable	Notify employees about leave approval or attendance status.	Email or UI-based alerts

## Database Fields Specification :-

### Customer Account Table

No.	Field Name	Range of Valid Values for the Field	Remarks
1	Employee_ID	Unique Identifier	Primary field (auto-generated or UUID)
2	Employee_Name	Up to 50 characters	Full name of the employee
3	Email	Valid email format	Used for login and notifications
4	Role	Enum (Admin, Employee, HR)	Determines access level
5	Date_of_Joining	Date	Date the employee started
6	Status	Enum (Active, Inactive)	Current employment status
7	Attendance_Records	Related Table / Foreign Key	Links to attendance entries
8	Leave_Balance	Integer (0 or positive)	Number of available leave days
9	Created_At	DateTime	Record creation timestamp
10	Updated_At	DateTime	Last updated timestamp

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- **Customer User:**
    - Employee Registration (by Admin)
    - Attendance Marking
    - View Profile & Attendance
    - Leave Application
    - Notifications

- Dashboard Access
- Logout
- **Bank Admin:**
  - Admin Login
  - Manage Employee Record
  - Attendance Oversight
  - Leave Management
  - Generate Reports
  - Notifications Management
  - Logout

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**Test Plan (TP) :-**

Se No.	Test Case Title	Description	Expected Result	Requirement in RS Table	Results
1	Employee Registration	Test the admin process of registering a new employee.	Admin can successfully add a new employee profile.	RS_1	Passed
2	Attendance Tracking	Test marking and retrieving daily attendance.	Attendance is marked and displayed correctly.	RS_2	Passed
3	Leave Management	Test applying for and approving/rejecting leave requests.	Leave requests are submitted and processed accurately.	RS_3	Passed
4	Role-Based Access	Test different access levels for admin and employee users	Admin and employees see only their respective dashboards.	RS_4	Passed
5	Activity Monitoring	Test logging and viewing of daily employee activity.	Activities are logged and viewable by admin.	RS_5	Passed
6	Employee Dashboard	Test employee dashboard for profile, attendance, and leaves..	Employee dashboard displays accurate information.	RS_6	Passed
7	Admin Dashboard	Test admin dashboard functionalities and controls.	Admin can view and manage all data effectively.	RS_7	Passed
8	Notifications	Test sending and receiving system alerts (e.g., leave status).	Notifications are delivered correctly to employees.	RS_8	Passed
9	Report Generation	Test generating reports for attendance and leave data.	Reports are generated accurately and downloadable.	RS_9	Passed

