**Practical 2**

**Aim:-** **To prepare Problem Statement for the project of your choice.**

**Theory :-**

The first phase of requirements engineering begins with requirements

elicitation i.e. gathering of information about requirements. Here,

requirements are identified with the help of customer and existing system

processes. So from here begins the preparation of problem statement. So,

basically a problem statement describes what needs to be done without

describing how.

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| **Online Leave Management System**  Leave Management Software facilitates the effective and smooth management of personel  leave. The Human Resources Department can always be up to date with their leave  management. With comprehensive reporting and Web based applications. This system  facilitates the total leave process, from completing leave applications by employees, leave  application approval by HR & management to setting up your specific company parameters  such as leave types (sick leave, Annual leave, etc.).  **Administrative Settings**   * Choose the types of leave allowed - Sick, Annual, Family Responsibility,   Maternity, Study, Unpaid, etc.   * Choose the number of days allowed for each of the types. A default is   set for all the employees, but admin can also modify it per employee.   * Leave can be allocated annually or monthly depending on your company   policies.   * Choose the persons to be notified when leave requests are received.   **Employees**   * An leave summary shows the employee, how many leaves are available,   how many they have taken and the status of their leave applications.   * Easily apply for leave choosing the required leave type and amount of   hours or days.   * Employees can upload supporting documentation, such as university   documents or sick notes when they apply for leave.   * The Leave Management Software is completely secure, thus employees   can't view each other's leave statuses.  **Leave processing and reporting**   * A notification is received by relevant manager/s when a leave application   is submitted by an employee.   * The relevant manager can then log in and choose to approve or reject an   application. Reasons can also be provided. The employee will be notified  once the leave application is approved or rejected.   * A summary can be selected whereby management, HR or the persons   tasked with managing the employees leave can search via an employee  and leave year, to get a summary of the employees current leave  applications as well as his outstanding leave days per category such as  sick leave, maternity leave, yearly leave etc.   * We make reports on Leave Management System. Simply select data to   include in your reports such as department, employee name, leave year,  leave status, dates and the output format for example HTML, PDF,Excel,  XML and DOC etc....  So Final Functionality provided By our Online Leave Management System is :   On-line application for leave without the need for paperwork.   Email notifications to approving officer and applicants.   Applicant and Approving Officer can see complete leave records and approval  history respectively.   Leave records are updated automatically once applications are approved.   Leave records may be printed out or generated into reports.   Leave records may be exported to any back-end system.   Advanced Features such as block leave, document tracking, leave adjustment.   Leave calendar provides a bird's eye view of who's on leave.   All leave policies are configurable (i.e no software customization required). |
| **Alarm**  Alarm application provides facilities for the Regular & Heavy Duty Sleepers to wake them up at their specified Time by doing various Activities . Also provides Reminder , Stop-watch,  Timer etc functionaities.  **Alarm Module**  In this module a person is allow to set alarm ,persoon can choose alarm repetation shedule over week’s even some specific time period value . Person can choose Alarm tune from default tunes or from the internal storage.Person is also able to add some functionality like while ringing alarm tune he wants vibration or not , increasing volume of tune or not . Person can turn off the alarm by doing activity like Simple Maths Quiz question , Tik-Tac-Toe game , no of Fingerprint scannig count , Barcode scanner , etc . Person is alos able to add some Event name like Date of Birthday,Marrige ,School or some thoughts that motivate user to Wake up etc.  **Reminder module**  Person can set Reminder which is similar to alarm but it is very long period of time. Person can set Birthday , Marrige anniversary event before that event in Calander .  **Stop-watch**  While in time important event like running ,jogging ,some other event that is related to sports , that is dependent on time to decide for winner ,runner up & so on .Stop watch is used .  Some extra Functionality is also provided like Person is allowed to choose Shut Down Device Permission don’t allow user to Shut Down Device while ringing Alarm application & also not allow to Delete or Uninstall the App from the System . Person Can also Customize the Color contrast of the app from the settings.Alarm Will Still Ring when Device is Shutdwon if device has more than 20 % Charging . |