

WORKSHEET – 1

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AIM:

Suppose you are planning to develop a project on employee attendance. Design a project plan by using following scenario

This project is designed to take down employee's attendance using Qr code. Every employee will be having a card that contains a unique Qr code. Each Qr code represents a unique id for all employees. They just have to scan their cards in front of the webcam on arriving and the system notes down their attendance as per date and time. System then stores all the employee's attendance records. It generates an overall report in excel sheet for admin and even allows him to search for particular employee's attendance.

Objective:-

- **“Employee's Attendance Management System”** as the name suggest the main objective of this system is to track the attendance of all the employees.

- It is used to save our precious because manually marking attendance leads to errors and time consuming
- Employee's Attendance Management System is a software system that can store, update, and retrieve the information through databases.

Requirement Analysis :-

Software Requirement

- Operating System: Windows 7/8/10/11
- Coding Language: Python / java
- Tool: Netbeans 7.2.1
- Database: sql /no sql (as per the requirement)

Hardware Requirement

- System: Intel Core i3 10th Gen or similar processor like AMD
- Hard Disk: 120 GB
- Monitor: 14'' LED
- Input Devices: Keyboard, Mouse
- Ram: 4 GB

Features:-

- Admin Login Panel
- Bar Code Reading

- Search option
- Report Generation System

Advantages :

- Employees will be more regular as the system notes down the time along with the attendance.
- Since now no attendance sheet signature is required, so no other person can make an attendance on behalf of others as QR Code are unique for every employee.
- No need to maintain attendance sheet as the attendance are electronically stored in database.
- The system helps the admin to easily find out latecomers.
- Admin can easily get attendance history of a particular employee.
- It saves time, cost, efforts and organization resources.

Project Approach :-

Project Initiation

Planning

Project planning is a crucial part of software development because it saves our time and money and we have an blueprint to work on so whole team can work without getting distracted .

Planning a project mainly consist of 3 steps:

1. Have a vision.
2. Make a timeline.
3. Build the team.

Resource Allocation

- Project Staff resources will be available when and as they will be needed.
- Required hardware resources will be available when and as they will be needed.
- Required customer resources will be available when and as they will be required.
- Access to industry experts and specialized skills will occur as needed.

Project Execution

Designing

This part contains how the project will be designed. Mainly it is based upon the requirements of the user, the programmer have to do as the client says what kind of things he need in the project, what kind of appearance he needs.

Implementation

Implementation contains all the coding part of the project. If it's a large project, a team is required to accomplish it otherwise a single person can also complete the project according to the need of client.

Testing

This phase contains the testing of the project before handling it to the client. All the aspects of the project are check, whether the project is working fine or there is any error, if any then it can be removed before handling the project to the client.

Project Deployment

- Deliverables will be subject to no more than a specific numbers of review cycles.
- Software and equipment order lead times are known and can be expected to be met.

Installation

Installation contains all the steps like the installation of all the needs of the software as required by the project. We have to provide everything to the user even the software and also teach how to use the project and what to enter where.

Documentation

Documentation contains all the documents of the project, how to use it, what are the software and hardware requirements to run the project. Even the introduction to project and the build team.

Training

In this the client is trained on how to use the project and what to enter where.

Maintenance :-

Updates

We will provide all the updates for the project to fix all the issues and bugs etc. All the new things will be added to the product with the update. The update can be optional as well as mandatory. The Updates will contain all the new things added to product and fix any problem.

Fixing Bugs

In this the bugs in the project are fixed, they can either be fixed with update or either with the help of any software developer. Mainly the updates fix all the bugs, because they are released to fix all the bugs and problems of the product.

Rules and Responsibility :-

<u>Name</u>	<u>Role and Position</u>	<u>Contact Info</u>
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Cost Estimate :-

- The statistics used in preparing the estimates are accurate within a given percent.
- Outsourced consulting will be limited to a specified number of days at a specified rate per day.
- The cost estimate will depend upon the work of project and the staff.

Project Constraints :-

The project should have been modified a bit more, like all details should be shown somewhere about the employees, attendance and other details. The details of the employee should be displayed on the screen when searching it. The overall project got so many constraints that need to be solved.