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ERP attendance system

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**ERP Attendance system**

The one way, we create a form like application that provides the fields to capture photos along with the employee id, system's date, timestamp are recorded automatically from the system, and traps exact gps location from mobile's location. And stores these details in the database. An algorithm that is a face recognition model will match the captured photo with that stored in the database. And marks the attendance based on the factors like expected gps location and the probability of the dataset matching with the provided credentials.

# DESIGN FIELDS

*FORM:*  It contains fields like:

* Employee ID
* Capture photo

The GPS location will be taken from the system and in case the photo has the location it will be taken from it. And the timestamp is captured from the system at the time of submission.

*Database:*  It contains tables which includes:

*Table1:*

* Employee ID
* Date and Time
* Location
* Path of the image
* Confidence Level(From the ML algorithm)

*Table 2(Legacy Table):*

* Employee ID
* Employee Name
* Employee Role
* Date of Joining
* etc.

*Table 3(Attendance table):*

* *Employee ID*
* *Employee Name*
* *Employee Attendence(P/A)*
* *Date*

Technology Required:

1. Flask
2. Tensorflow, keras
3. database(mysql/nosql)
4. Geopy
5. Folder containing photos

The link to the form can be provided as a QR code like the way they are installed at the shops.

**ADVANTAGES:**

* Cost friendly setup
* No extra hardware cost required