Attendance System Using Geo-Location and Voice Recognition

Description:

NYKS requires a software through which we may take the attendance of the officers who are working in the different districts and states across the country.

Requirement for solution :

NYKS has 623 district offices and 29 state offices across the country.

NYKS needs software by which NYKS may take the attendance of the officers working in these districts and States.

The application should collect the attendance based on the location of the officer through GPS system / Geo-Location System and voice recognition or

The software should collect the attendance based on landline telephone number and voice recognition.

Hardware and software requirements:

1.Good internet connectivity within the workspace.

2.Microphone.

3.JAVA interpreter

4.MySQL

How to use?

1.If you are a new user, click on NEW REGISTRATION.Enter the details asked and remember the random user ID generated.

2.If you are already registered on the portal, click on LOGIN. Enter the ID and password.

3.In case if you don't remember your ID or password, there is a recovery option using the REGISTERED EMAIL-ID.

4.On entering the correct ID and password, the employee would be required to speak up the ID. Using VOICE RECOGNITION and GPS SYSTEM, the attendance would be marked.

5.Only the authorities are allowed to access the ADMIN MODULE to check the records of the employees working in different offices.

Technical details:

1. The registration portal (front end) has been developed using JVM.

2. The employee details are stored in MYSQL DATABASE in the backend at the server side.

3. Client side portal has been designed using HTML and CSS.

4. Client side data is stored in the database using PHP.

5. ASR has been used to implement voice recognition.

6. Google GPS is used to get the exact coordinates of the client.

7.TCP/IP has been used to implement into an encryption for information sharing between district backend and state backend.