Attendance Technical Approach

In this technical approach ‘on fly’ calculation will slightly changed.

**Current approach :-**

In current approach, We are generating attendance on fly when user request for attendance page or click on generate button. System gathers user’s all punch entries and calculate among them and display in grid. Every time user request for page system will calculate all entries.

**New Approach :-**

In new approach attendance calculation will done once when user punch on door. When user punch latest calculation will be calculated and saved in a table. Whenever user request for attendance system will get office hours and out ours from new table and display.

**Pros :-**

* Attendance will generate 3 times faster then current.
* In / Out office hours will be saved
* No need to calculate every time
* Monthly leave report will be generate faster
* No need to change structure of attendance report.

**Cons :-**

* Triggers can be missed.
* Need to put force generate attendance button in case of any trigger missed.
* Need to generate previous months attendance once.
* Manually exchange data

**Changes in modules :-**

* Attendance request module
* Attendance approval module
* Attendance view
* Downtime module
* Miss punch apply
* Attendance report for HR
* Employee Monthly leave report

**Solution in modules :-**

Overall changes in every module would be refresh attendance every time when attendance changes made in database. Calculation need to be refresh when attendance (applied/approved/reject). Same changes in downtime, manual attendance miss punch etc.