

Group: Project 12  
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I work in manufacturing, and we currently use excel to record downtime. Each department will document their own data. Some will share one file while others have their own. All these excel files are saved in the network drive. This introduces quite a few problems. If the file is accidentally deleted, all the data is lost; there is a backup, but it will not be current. Occasionally, if one person has the file open, someone else cannot access that same file. So, I believe a database would be better suited for this type of data acquisition tasks.

Each DEPARTMENT will have a unique name and has an EQUIPMENT with a unique part number and a description. A downtime must be documented for the EQUIPMENT even if there is none by both day and swing shift each day. The DOWNTIME entity will have unique technician initial and what shift they are documenting for. Its subclass will be SCHEDULE and NONSCHEDULE; it must be one or the other not both; use NONSCHEDULE if there is zero downtime. SCHEDULE will say what was done (i.e. maintenance work, repair, etc.), start and stop time, while NONSCHEDULE will have the cause (i.e. equipment failure, short staff, etc.) and the duration of the downtime. Essentially SCHEDULE will be applied when the equipment is not in production and NONSCHEDULE is what happens during production.

The tech stack that will be used is what the Professor recommends, MySQL and PHP. This will be hosted in the school server. From what is understood in the lecture, this combination is the easiest to use when implementing the project since it's all there to use, there are support in school, and they work together very well. MySQL will be used for the backend, while PHP is for the front end. In all honesty, not a lot is known how this would be implemented together yet since from previous class (CSC 134) MySQL was only used to make and edit tables and do queries on them.