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***ShifterMan – Data Base Layer***

ShifterMan Data-Base layer will have four tables:

(\*manager is the person that managing the D.B, not necessary the manager of the company).

1. The Organization Table. This table includes two fields, the organization name (Org\_Name) and the workers IDs (Wor\_ID) that working in the organization. The primary key of this table is Org\_Name.

The data for this table will be filled in by the manager. The organization name will be filled in when the manager is singing up to our web site. After the signing in process of the manager he will have to submit all the IDs of his workers in order to secure that only his workers will be connected to his company.

1. The Worker Table. This table includes five fields, worker ID (Wor\_ID), worker name (Wor\_Name), worker username (Wor\_Username), worker password (Wor\_Password) and workers type (Wor\_Type). The Primary key of this table is the Wor\_ID.

The data of this table will be filled in on the sign up stage of the worker (employee or manger will be chosen by the user on this web page).

An employee that want to sign up to our web site need to fill in all of the above fields and pick up from a drop-down menu the name of his company, after he presses the submit button, the application will check in the Organization Table if his ID exist in one of the rows of his company and only after this verification, if the two inputs are matching, the employees details will be added to the Worker Table.

1. The Shift Option Table. This table includes 5-6 fields, worker ID (Wor\_ID), week of the weekly schedule (Week), day of the shift (Sh\_Day), beginning time of the shift (Sh\_T\_From), end time of the shift (Sh\_T\_To), (\*Optional) Shift Type (Sh\_Type).

The data in this table will be filled in by the employee side when the employee will fill in his shift options. Each worker will get an access to a page where he will see a table divided to days (columns) and time of shift (rows). On this page, the employee will have to click on the square of the table that represents the shift that he wants to work on. After he will finish clicking on the squares and will push the submit button, all the data will be written in this table. The specification of Special and Regular shifts will be made by the manager. A special shift is a meant to be a shift on a holyday.

After this table is filled in by the employees, the manager will able to see on a page that can be seen only by the manager that includes a similar table as on the employees side but on the manager side he will see a table with all the workers that gave those options. This page will use the Shift Option Table and the Worker Table to get the employees names.

1. The Shift Schedule Table. This table includes 5-6 fields, worker ID (Wor\_ID), week of the weekly schedule (Week), day of the shift (Sh\_Day), beginning time of the shift (Sh\_T\_From), end time of the shift (Sh\_T\_To), (\*Optional) Shift Type (Sh\_Type).

As you can see, this table has the exact same fields as the previous one.

The changes are:

The data in this table will be filled by the manager or by the algorithm of our logic layer. After the employees gave all the shift options, the manger can build the shift schedule. Each shift on the week will be attached to a worker and all of this data will saved in this table.

The reason that we didn't combine the last two tables is convenience for our team to separate and find the information for the two parts described above.