Project Report

Schema Design:

- 1. Two extra schemas have been included in the system apart from asset and performance schema. asset_type and operational_status helps to
 - a. Add and keep track of all the types and statuses of the assets.
 - b. Update the corresponding type or status without affecting the asset database. Say if asset_type: T1 is outdated and needs to be updated but no changes required for the assets associated with it. Then user just have to update the description of T1 keeping the id same.
 - Reduces the frequency of accessing the database.
 - c. Also deleting a status or type will just made the asset_type and operatinal_sts field *null*.
- 2. In the asset schema the asset_ loc is a nested schema consisting of street no, city, pincode.

Multiple Options for delete:

As per requirement the user can select the mode to delete an asset.

- 1. Cascade Delete: if an asset is deleted then it's corresponding performance record will be deleted too.
- 2. Normal Delete: Only asset is deleted but it's performance metrics are still the db.

Benchmark for high failure rate:

The benchmark for the criteria is considered as the sum of (mean+standerd deviation) of the failure rates of all assets.

USER Database:

A user database is created with to keep track of the users and who are the super users. So that the sensitive resource informations' access can be restricted.