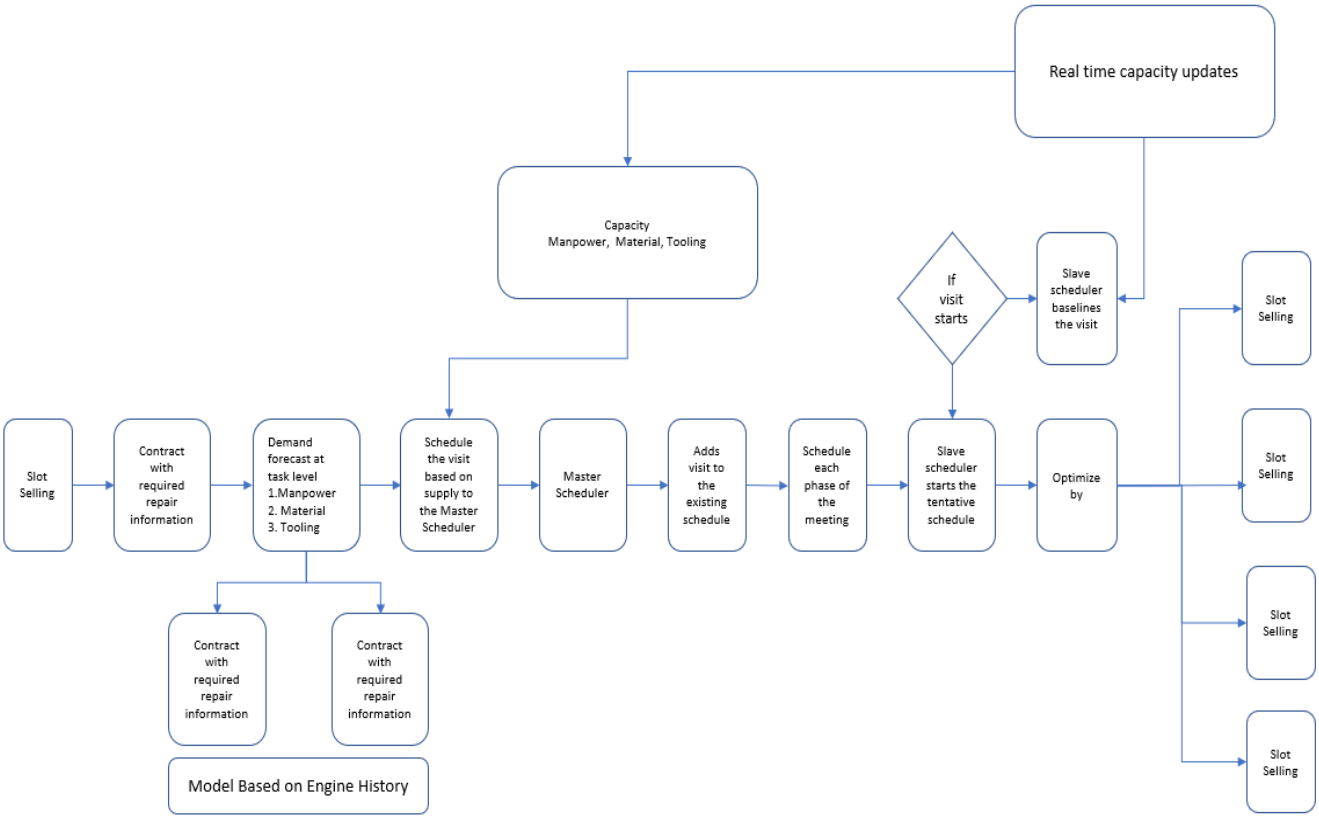

Real time capacity updates
Capacity
Manpower, Material, Tooling
If visit starts
Slave scheduler baselines the visit
Slot Selling
Slot Selling
Slot Selling
Slot Selling
Slot Selling
Contract with required repair information
Demand forecast at task level 1.Manpower 2. Material 3. Tooling
Schedule the visit based on supply to the Master Scheduler
Master Scheduler
Adds visit to the existing schedule
Schedule each phase of the meeting
Slave scheduler starts the tentative schedule
Optimize by
Contract with required repair information
Contract with required repair information
Model Based on Engine History

Figure 1

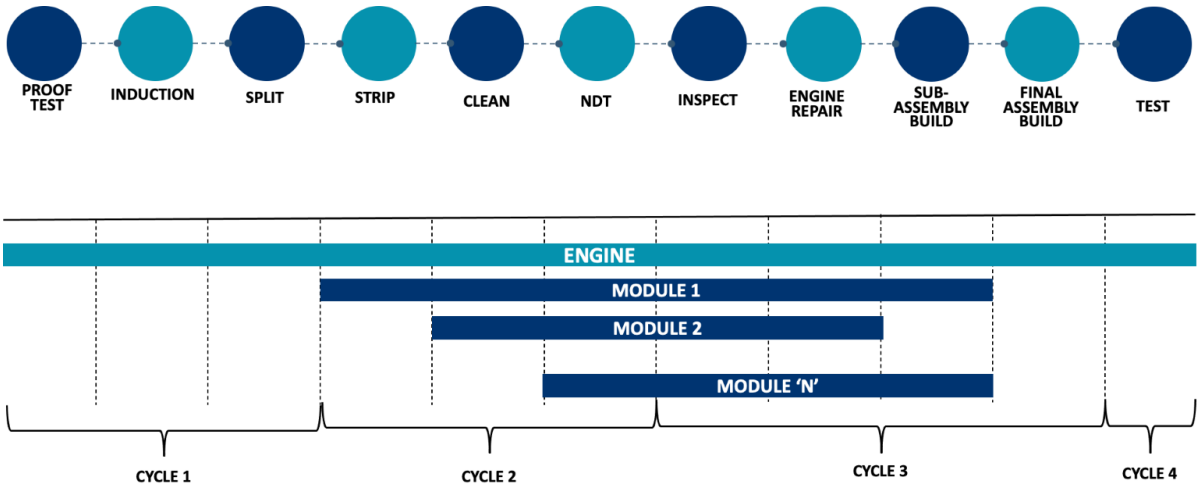

PROOF TEST
INDUCTION
SPLIT
STRIP
CLEAN
NDT
INSPECT
ENGINE REPAIR
SUB-ASSEMBLY BUILD
FINAL ASSEMBLY BUILD
TEST
ENGINE
MODULE 1
MODULE 2
MODULE 'N'
CYCLE 1
CYCLE 2
CYCLE 3
CYCLE 4

Figure 2

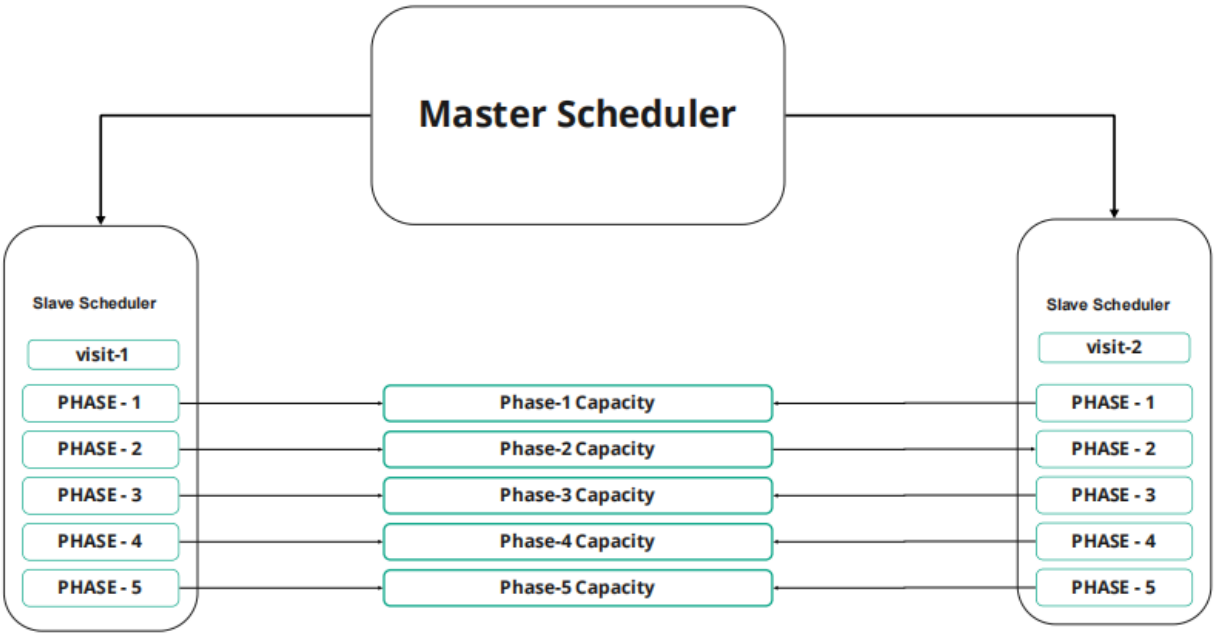

Master Scheduler
Slave Scheduler
visit-1
PHASE - 1
PHASE - 2
PHASE - 3
PHASE - 4
PHASE - 5
Phase-1 Capacity
Phase-2 Capacity
Phase-3 Capacity
Phase-4 Capacity
Phase-5 Capacity
Slave Scheduler
visit-2
PHASE - 1
PHASE - 2
PHASE - 3
PHASE - 4
PHASE - 5

Figure 3

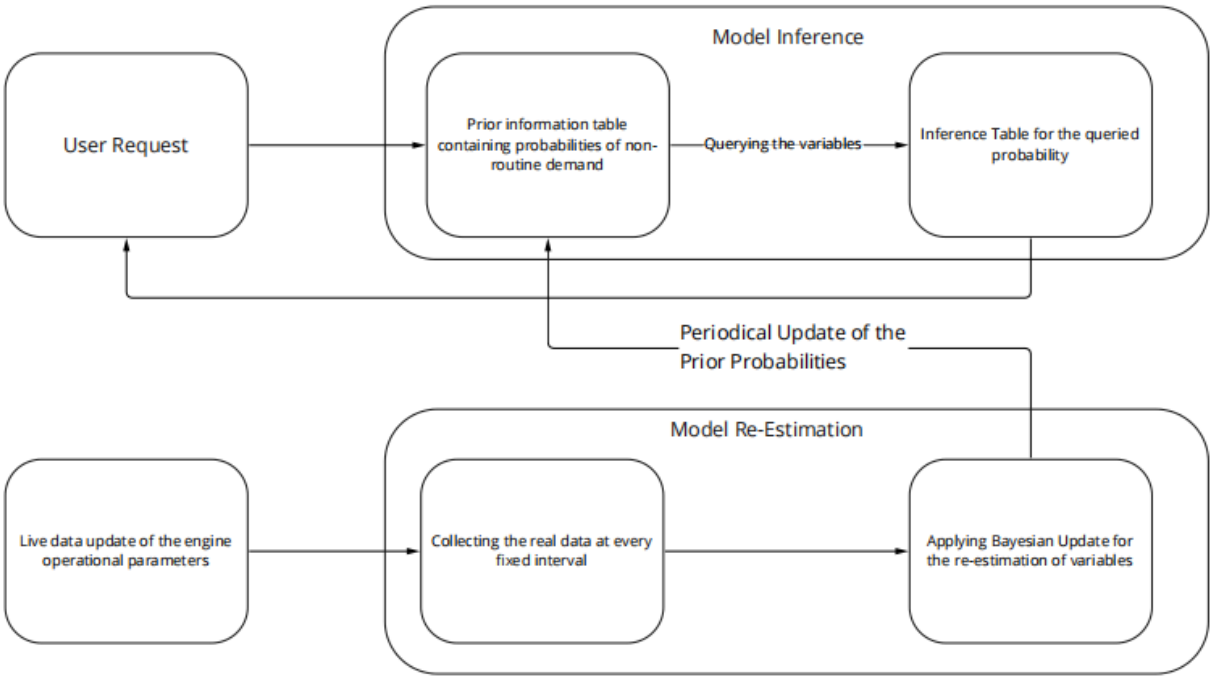

Model Inference
User Request
Prior information table containing probabilities of non-routine demand
Querying the variables
Inference Table for the queried probability
Periodical Update of the Prior Probabilities
Model Re-Estimation
Live data update of the engine operational parameters
Collecting the real data at every fixed interval
Applying Bayesian Update for the re-estimation of variables

Figure 4

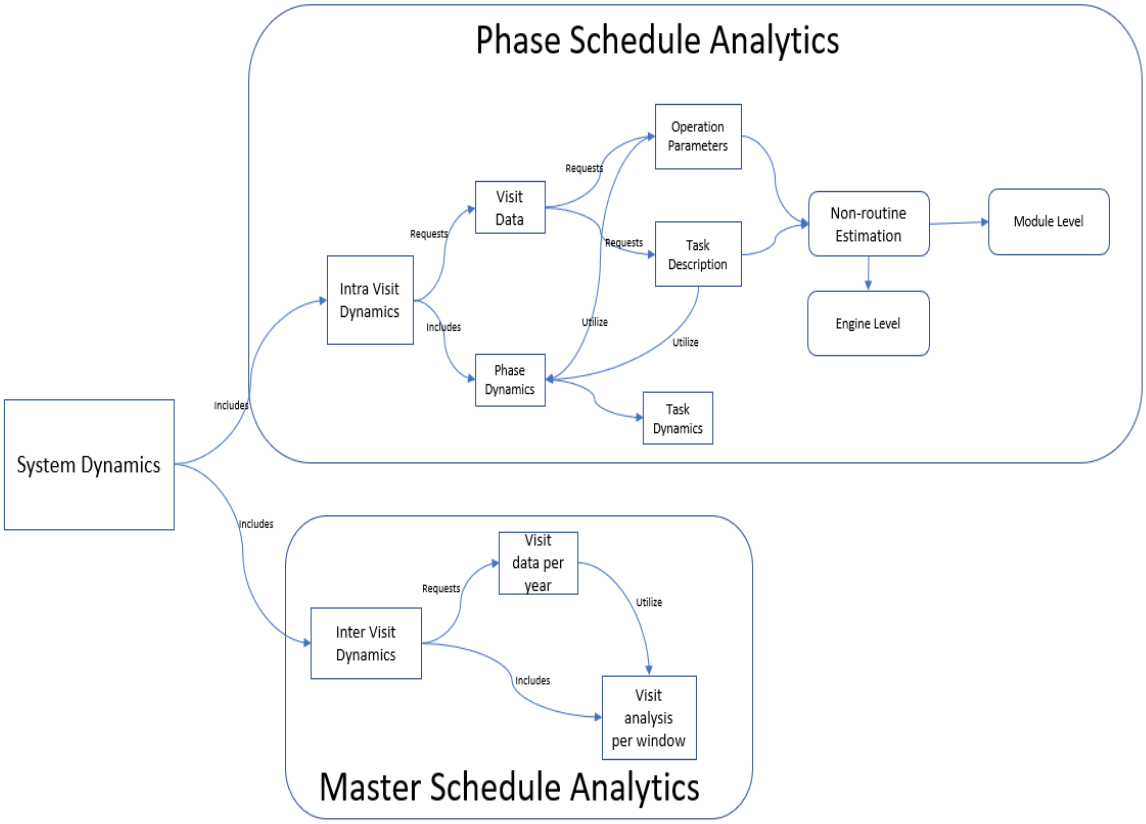

Phase Schedule Analytics
Operation Parameters
Requests
Visit Data
Requests
Requests
Task Description
Non-routine Estimation
Module Level
Intra Visit Dynamics
Includes
Utilize
Utilize
Engine Level
Phase Dynamics
Task Dynamics
Includes
System Dynamics
Includes
Visit data per year
Requests
Utilize
Inter Visit Dynamics
Includes
Visit analysis per window
Master Schedule Analytics

Figure 5