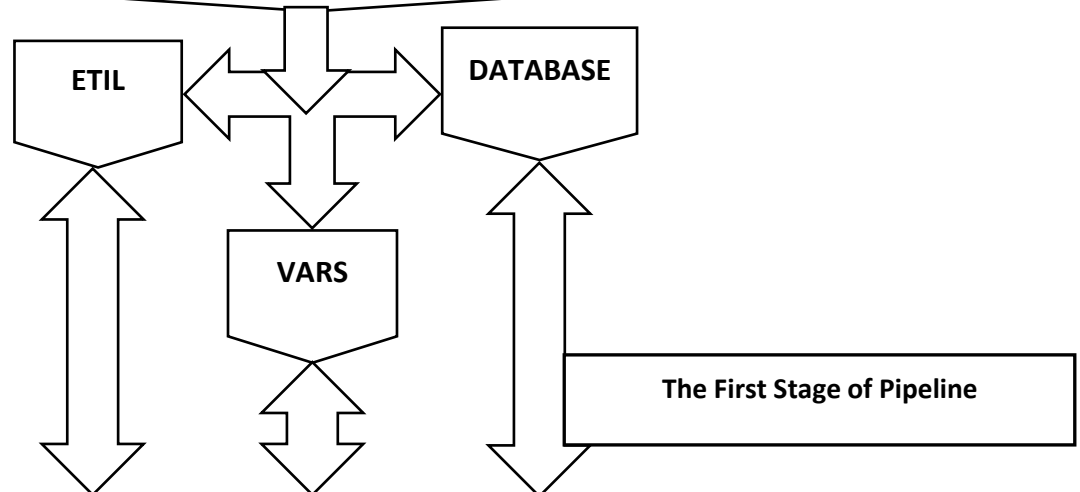**DevOps team in LBG works mainly to automate the process to overcome manual approach of other teams.**

DEBT MANAGER: We use Debt Manager application in LBG for which DevOps team works to make the usage of the application to end user satisfactory. It comprises of the following three:

ETIL

DATABASE

VARS

The First Stage of Pipeline

GITHUB: It is a code hosting platform with version control where the team writes the code in the GitHub repository and the tool details every commit that has been made to the master code

MASTER: GitHub provides repositories in which team hosts the code, the each repository contains only one master branch. Usually the team works on multiple repository since the code contains many sections which are then integrated to form a build

BRANCHES: GitHub provides branches in which team members can individually work on the code.

RESULT: The team can now integrate the committed changes in the branches which are of no vulnerabilities to the master branch.

COMMIT: GitHub provides a feature called commit which records the changes made to the code in every branch.

The Second Stage of Pipeline

JENKINS: It is a CI/CD tool which in LBG is used for Continuous Integration of the code written in GitHub

PULL: Jenkins pulls the code build in the GitHub repository either from the master branch or other committed branch

BUILD: Jenkins then helps in integrating the code to form a build and also helps in updating the existing code which constitutes Continuous Integration.

RESULT: The Integrated code can now also be Continuously Deployed but in LBG we use UCD for Controlled Deployment

The Third Stage of Pipeline

URBAN CODE DEPLOY(UCD): UCD enables us to deploy the built code from Jenkins with control to end user by enabling which server the build code to be run.