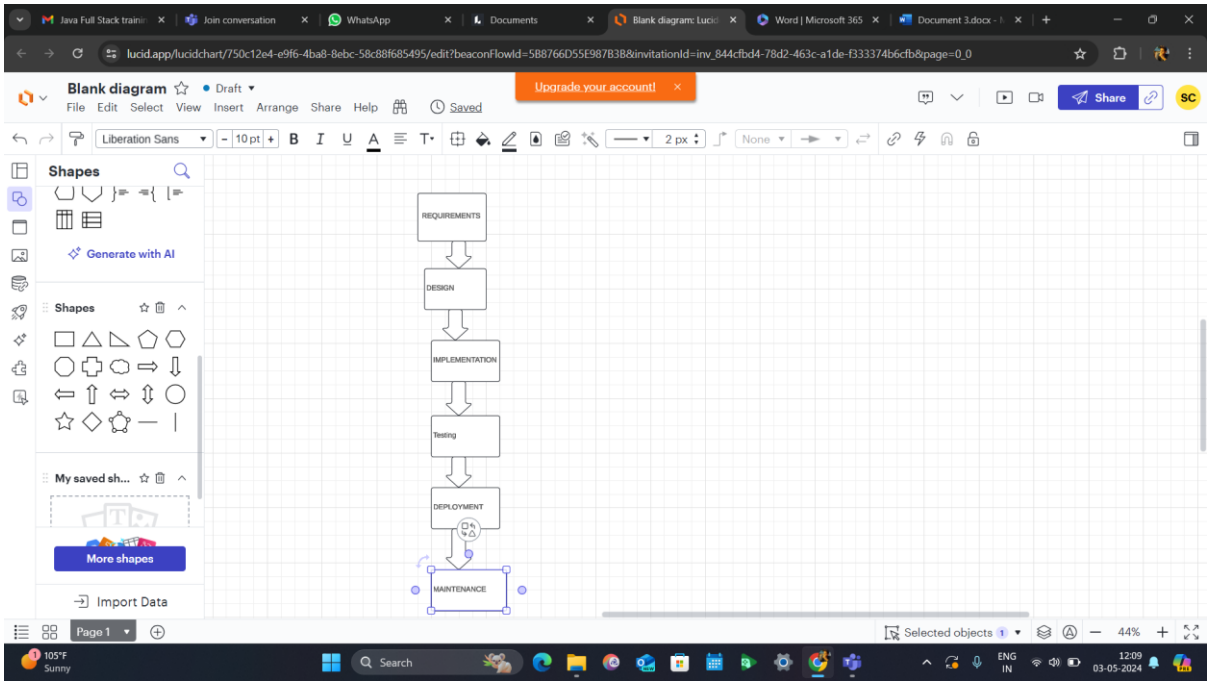
Assignment 1 :-



REQUIREMENTS :- in this stage ,business team will collect all the requirements from clients like how the applications should look.what need in applications

DESIGN :- in this stage, team will analysis the requirements and think about solutions like which software should be use to meet the clients requirements.

IMPLEMENTATION :- in this stage, developing team will the code the application .

Testing :- In this stage,tester runs the application to see whether applications is running bug free or not and check the applications meet the client requirement or not. If anything went wrong they will again send to development team to fix bugs.

DEPLOYMENT :- In this stage,they will deploy the application in servers.

MAINTENANCE:- In this stage, they constantly check the application, fixes bugs and provide new updates.

Assignment 2 :- case study

Client came up with a requirement to develop a online clothing application where customers and order clothes through online with requirements like check stock, orders and payment method .Requirement stage are requirements will gather from client

like check stock, orders and payment method .

Design stage they will check which software to use. Implementation stage developing team will code online clothing application. Testing stage they will whether the application is running bug free or not. Deployment stage if the application is running bug free with out any problems then they will deploy application in servers. Maintenance stage they will updates regarding apps and fixes some glitches based on feedback from users.

Assignment 3: - Research and compare SDLC models suitable for engineering projects. Present findings on Waterfall, Agile, Spiral, and V-Model approaches, emphasizing their advantages, disadvantages, and applicability in different engineering contexts.

Agile sdlc models is used online clothing application.

Waterfall:- this model develops Systematically from one stage to another satge and no going back to the back once previous stage is completed

Advantage :-

1.design well structure organization'

Disadvantages :-

1.no going back or previous process

Agile :- this model has a continuous feedback and iterations .can go back to previous stage also if required.

Advantage:-reduce risks and improved customer satisfaction due to frequent feedback loops.

Disadvantages :- it takes more time

Spiral :- this model is used to evaluate risks and adjust project plans

Advantage :-

Reducing the risk of misunderstanding

Disadvantages :-

Not suitable for small or straightforward projects .

v-model: - this model is used for test and assuring quality.

Advantage :-ensure that testing is considered from the outset, leading to better quality assurance.

Disadvantages :- requires detailed planning, which can be time consuming and resources intensive