- Peer reviews are complete with no outstanding issues.
- Deployed to the production environment or ready for deployment.
- 2. Move Task to Done
- Transition the task to the Done column in the tool.
- Update any documentation or notify stakeholders, if needed.

Step-6: Continuously Improve Workflow

- 1. Conduct Retrospectives
- Regularly review the workflow to identify bottlenecks or inefficiencies.
- 2. Optimize Automation
- Add more automation to reduce manual effort, such as deployment pipelines.
- 3. Enhance Communication
- Use tools like Slack or Microsoft Teams for instant updates on task progress.

SOURCE CODE

PHASE 1: TO DO

- Objective: Identify and prioritize tasks or features to be developed
- Key Actions:
 - · define tasks clearly in a backlog
 - · Prioritize tasks based on impact, urgency & dependencies
 - · Assign owners or teams to each task
- Jooks: Jira, Irello, litthub Issues or Asana

PHASE 2: IN PROGRESS

- Objective: Actively work on tasks selected from the "Jo 200" phase.
- Key Actions:

- · Begin coding or configuring based on task requirements
- · Update the task status to heffect ongoing work
- · Ensure team members collaborate exectively (eq: stand ups, pair programming)

- Best Practices:

- · Use branches in version control systems for individual tasks (e.g. Lit feature branches)
- · havite unit tests alongside development

PHASE 3: CODE REVIEW

- Objective: Validate—the quality, functionality and security of the code
- Key Actions:
 - · Submit pull requests for peer review
 - · Review code for adherance to standards, logic & potential issues
 - · Approve or request changes

-Jools:

github Pull Requests, gitlab Merge Requests, Bitbucket

- Automation :

Integrate CI/CD pipelines to run tests automatically during

PHASE 4 : DONE

- Objective: Mark tasks as completed and deploy changes if necessary

- Key Actions:
 - · Merge the approved code into main branch
 - · Deploy to staging or production environments
 - " Meniter deployment and validate functionality
- Post Completion:
 - · Add documentation for the changes
 - · Gather feedback from stakeholder or users

WORKFLOW VISUALIZATION

A Kambon board or similar visual representation can help track the status of tasks across these phases. For example:

- i) To 80: Contains all pending tasks
- ii) In Progress: Jaska currently being worked on
- III) Code Review: Jacks awaiting seview or approval
- Ev) Done : Completed a deployed tasks

Jools:

Isello, Jira, Azure

SOURCE CODE

STEP-1: Install Jak - 17 and set the java path in system envisonment.

STEP-2: Download eclipse zip file and extract the contents of the eclipse file

STEP-3: Create a moven project from eclipse as:

Click on File in text corner -> click on new -> click on Maven Project and follow the below steps: -

a. Click Next in the New Maner Project dialog tox that appears.

6. Search for org. apache maven archetypes and select webapp file.

c. In group Id you can type anything like your name and in Artifact 4d type anything like your roll number. Select was as package

-do Click Finish

e. Type Y and press enter. You should see a Build success message.

STEP-4: NOW open your pom. xml file and add your depondencies

STEP-5: Update your project once (Right click on Project -> click on Maron -> Click on Update project)

STEP-6: Hownload Apache Jemcat v9 from official website

STEP-7: After downloading the Apache Jomcat, extract the zip file and paste your apache-tomcat 9.0.98 folder (.

STEP-8: Now, click on your project option in Menu -> Click on Properties -> Click on Targeted Runtime

STEP-9: Click on new .

STEP-10: Select Apache Joncal 19.0. Click on Next.

STEP-11: Click on Browse and select your extracted file and then click on finish. as given image.

STEP-12: New click on Help menu -> Click on Install new Software STEP-13: Click on Add and it will show a popup dialog-like g of Add Repository-

In the place of Name type: JestNG In the place of Location type; https://testing.org/testing-eclipseupdate-site/

STEP. 14: Click on Add - It will load a testNG dependencies - Xelect Jesting the given image and then click next. It will take 10 minutes to update JestNG in our project.

STEP-15: After downloading all the dependencies it will show some file

Lett all and click on next.

STEP-16: Accept Jerms and Conditions and Click on Finish.

STEP-17: After finishing, it will show Restart option (Restart the Project) otherwise just update once of your project.

NTEP-18: NOW LOgin your yithub Account.

STEP-19: Create a New Repository and copy your repository and paste in Notepad

Step-20: After that, click on your Profile in right corner -> Click on setting

STEP-21: It will show a new page, scroll down and select the scheloper Setting -> click on personal access token -> xelect Joken (classic) -> click on generate new token and select generate new token (classic) -> write your token name & select repo option and scroll down and Wick on Generate Joken.

STEP-22: After generating the token, copy the token id and paste it in

STEP-23: Now come on your project and right click on your project

STEP-24: It will open a vialog Box for yithub setup, select the option use or create repository in parent folder of project — select your Project and click on Create Repository and click on Finish.

STEP-25: After that again, hight click on your project and xelect—the Jean -> Click on Commit -> and xtage your all file -> and hrite a comment (i.e., First Conmit) and click on Commit and push -> After that it shows an error dialog -> Click ox -> Now again click on Push Head button.

STEP-26: After than, again click on Push Head . It will show a dialog like of Push Branch master: Paste your Repository URL in URL section and type your lithub later Id and Password in User, password section -> Click on Preview -> Again click on Preview.

STEP-27: Then, it will again show a user Id & password option —) Just type your lithub id in user section and paste your token id in password token —) Will en push —) One more time it will ask your user id and password, just repeat your last step —) Now check your repository on github, if your file is uploaded or not.

STEP-28: Create a ximple java code in SRC file, so first open your project from file manager - Open src - Create folder in ssc - First name: java, second name: test - Open test folder and create two more folders in test folder - Come to your Eclipse IDE & update your project once - After that create a java class file with a statement "Hello world" in your ssc/test/java folder.

STEP-29: Now push again your all unstage files in your lithub Repository with different version or Comment (its just for version control)

STEP-30: Now check your repository again to see whether your recent file is uploaded or not.

```
< dependencies >
   < dependency >
      <groupId > junit < |groupId >
      <artifacted > junit </artifacted>
      < version > 3-8-1 < 1 version >
      < scope > test </scope>
  Idependency >
  < dependency >
     < grapted zjavax. servlet </graupId>
     < artifacted > javax · servlet -api = /artifacted >
      < version > 4-0.1 < / version >
      < scope 7 provided < 1 scope >
  < dependency >
     < graup Id 7 org. seleniumhq. selenium < /graup Id >
     < artifactId > selenium - fava < lartifactId >
      e version > 4. 27.0 < | version >
  < dependency 7
    < groups org. testing < / groups d >
    < autifact Id > testing </ autifact Id>
     < version > 7.10.2 </ version >
     < supe > test </ supe>
  < Idependency >
< Idependencies 7
< build >
   < pluging >
     < plugin >
         < groups > org · apache · maven · plugina < lgraups d >
         < artifacted > moven - surefixe - plugin </artifacted >
         < version > 3.5.2/version>
    </plyin7
    < plugin >
       < groupId > org · apache · maven · plugins </groupId >
       <astipacted > moven-compiles-purgen </artifacted >
       < version 7 3.13.0 < l version >
```

OUTPUT

```
< configuration >
                           < source > 17 </source >
                            < target > 21 < 1 target >

<
< final Name > 6229 < /final name >
</brild >
</project >
```