**Current Sprint Automation**

**Developer QA Manual Automation PO/BA**

Ready for Development

In Progress

For Manual Testing

Code Review

PO Review

Merge to Release

For Automation

Ready for SI Deploy

Ready for Prod

Done

**Process Improvement**

This process will cover both the standardization of coding, testing and even deployment. Here are the columns that needed to have more accurate data as we need to implement automation.

1. **Ready For Development** – tickets that is currently not been develop or in progress
2. **In Progress** – tickets that is currently in progress of the developers
3. **Code Review** – tickets that is already done by the developers and just needed to be check by another colleague. Once the ticket has been code reviewed. It should have Develop Build and this will be used as version to push thru to QA Environment.
4. **For Manual testing** – Develop build should be deployed to QA Environment whether it’s dev or qa. Once the ticket has been deployed. It can be manual tested by the QA.
5. **PO Review** – PO’s will used the test case or proof of testing given by the manual tester in testing this ticket. This ticket should be signed off by the Product owner before moving to the next column
6. **For Automation** – Once the ticket is signed off, QA Automation will create script that can be run in QA Environment. And provide automation proof of testing before moving to the next column
7. **Merge to Release** – Once the team finalized what are the tickets needed to be deployed for the said date. Automation should moved all the tickets to merge to release column. And developers will merge the ticket and will provide the release build to be deployed.
8. **Ready for SI Deploy** – Once the ticket has been merged to release. QA will be the only one who will deploy the tickets in SI. The automation will run again the script that has been automated and if not, qa should test it manually. Parallelly, the automation will run a sanity and regression testing in this environment. If the ticket is passed it will be moved to Ready for Prod
9. **Ready for Prod** – Once the ticket has been tested and the sanity and regression automation result is PASSED in SI Environment, QA/Devops/Dev. Can deploy the tickets to production. Once the ticket has been deploy to production. The QA or PO/BA will confirmed if its working in Production Environment.
10. **Done** – All tickets that has been tested and confirmed in Production that is working should be moved to Done. Automation should run a prod-friendly sanity and regression suite in production 1 or 2 days after the deployment

**Checklist For Automation**

1. **3 Environment Should be provided**
   1. **QA Environment**
      * + - where all codes of developers will be push thru.
          - **Develop Build** will be deployed into the environment (Dev and QA has access in deploying it)
   2. **SI Environment** 
      * + - where only tickets that has been signed off by PO QA will be push thru.
          - Release Build will be deployed into the environment (QA has the only has access in deploying it)
   3. **Production Environment**
      * + - where only tickets that has been signed off by PO QA will be push thru
          - Automation and Manual Regression Testing should be done.
          - Release build that has been deployed to SI will be promoted to Production
          - Access must be given only to QA/Dev Ops, but in some point Dev can deploy into Production if needed
2. **Automation Tracker**
   * + - * Automation End of Cycle Report will be given every end of the sprint. This will cover all the coverage of the following

Current Sprint automation – how many tickets are already automated and if not completed it will be moved to backlog . How many tickets are automatable vs not automatable(if not, reasons)

Backlog Summary – how many tickets are already completed in your backlog.

Maintenance Summary – how many tickets are for maintenance. It can be put to maintenance for some reasons such as There is an open bug ticket, change of functionality, change of ui design that affects the script

1. **For automation only**
   1. User specific for automation use only. All roles/persona should have automation user. Ex autoadmin, autouser and etc.
   2. Company with Branches for automation use only. This should not be used for any kinds of testing.
2. **Initial Regression/ Sanity Coverage**
   * + - * What will be the coverage of the regression and sanity? What are the processes that are already been done. All positive and negative scenarios should be covered. Must update the regression/sanity tracker for access
3. **Implementation** 
   1. **Current Sprint Automation** 
      1. Pros
         * + Ticket that would be release will be automated during the sprint and the script created can be used for running regression test and make sure that the ticket will be deployed is up and running.
           + No need to manually test the ticket in SI and Prod if its automatable.
           + Automation is visible to everyone not just for the QA. Because it is part of the board.
      2. Cons
         * + It’s hard if there is ticket needed to move to done in 1-2 days before closing the sprint. And focus on having automation result for deployment
   2. **After Sprint or 1 Sprint Behind Automation** 
      1. Pros
         * + Tickets that has been moved to Done will be the tickets to be automated
           + More time for automation to focus on giving sanity and regression results as per needed.
      2. Cons
         * + Manual testing of tickets is necessary in all environments
4. **Deployment Process**
   * + - * Only the tickets that is covered in the Release Build should be deployed in the said date.
         * The reason for this is, The automation result will be obsolete once you have push another changes to be deployed.
         * In some point, if that **tickets still need to be deployed or if the release build will be failed for automation or manual testing**, automation result will be void. and the automation should run another set of regression for the latest release build.
         * Advisable is **1-2 days before deployment**, There should be no changes to the build to be deployed to give way for automation and manual testing.
5. **Another unit or Monitor for Automation**
   * + - * Everyone that is running or creating script automation should have at least separate unit or even desktop to run their automation script. Since we don’t have docker. The scripts will be run locally and that causes you not to be able to use your pc while the script is running. Approximately. Running regression suites can cost you 1hour or even more based on how many scripts is running.