بسم الله الرحمن الرحيم

**Proposal**

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**Title:**

Software Engineering issues in CI/CD of software product .

**Project type :**

problem solving , Development .

**Introduction :**

The growth of Agile and the demand of it’s placing on QA teams for faster delivery cycles is forcing many to replace the older monolithic development models with a more streamlined process . However , pervasive method such as manual testing are keeping the teams for adopting flexible practices like continuous integration and continuous delivery and reaching true agility . Continuous integration is software practice in which small adjustments to the underlying code in an application are verified using automated building and testing every time a team member makes changes .Continuous delivery is process of getting a new builds into production environment as quickly as possible . In order to provide the true agility we need to develop an automated continuous integration , continuous delivery pipeline to enable teams to release a constant flow of software updates into production to quicken release cycles , lower cost and reduce the risk associated with development .

**Aims and objectives:**

Aim:

**Outcomes and deliverables:**

A report detailing the following:

**Research methodology:**

Survey , Action research.

**Hardware and software requirements:**

**Building server :** Is a server contain compilers for programming language and has ability to build the software code . ,

**Container :** Is a server that collect the user environment factor and can run each code independently from the server environment look like virtual machines .

**version control :** Is a server that provide share repository to group of developers to integrate their codes .

**All the requirement is available** .