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https://eduassistpro.github.io/

Continuodo de la continuo della cont

Slides from Tim Storer

Java Build tools

- Ant and ssignment Project Exam Help
- Mayen https://eduassistpro.github.io/
- □ Gradle (Lab) dd WeChat edu_assist_pro

Continuous Integration

- Integrassignment Project Exam Help
- Change M https://eduassistpro.github.io/
 - Add WeChat edu_assist_pro
- Monitoring and Maintaining Software Quality
- Continuous Deployment
- Continuous Integration Environments

Integration Hell

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Practices in CI [Fowler, 2006]

Change management:

- Maintain a single source repository
- Every Assignment throjectine xamy Help
- Every commi integration https://eduassistpro.github.io/

n an

Everyone can see what's happening

Quality assurancedd WeChat edu_assist_pro

- Automate the build
- Make your build self-testing
- Test in a clone of the production environment
- Keep the build fast

Deployment:

- Make it easy for anyone to get the latest executable
- Automate deployment

Integration frequency

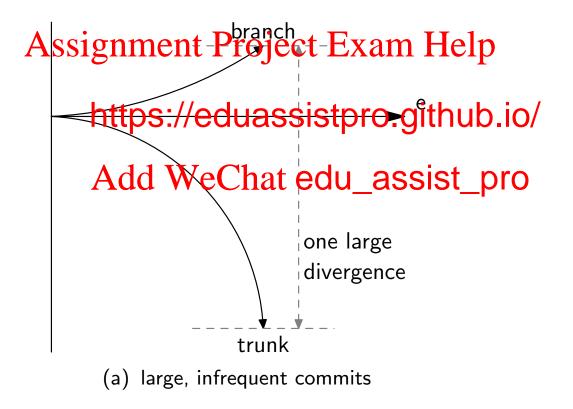


Figure: divergence between trunk and feature branches over time

Integration frequency

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small divergences

(b) small, frequent commits

Figure: divergence between trunk and feature branches over time

Feature branching in continuous integration

- Implementatheigenfeather Project Exam Help trunk, with frequent commits of small changes. https://eduassistpro.github.io/
- Implement the new feature in a branch and merge changed from element bedu_assist_pro frequently.
- Implement a feature as a prototype branch and then re-implement the feature on the trunk in small changes.
- Implement the feature as a permanent branch.

Detecting broken builds

Assignment Project Exam Help every time a change is made t

- The system shounts://eduassistpro.github.io/
 production environment.
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 A suite of automated regression tests sho
- A suite of automated regression tests sho
 the complete system.
- Appropriate static analysis checks (such as code style conformity) should be performed and compared to benchmarks.

Preventing broken public builds

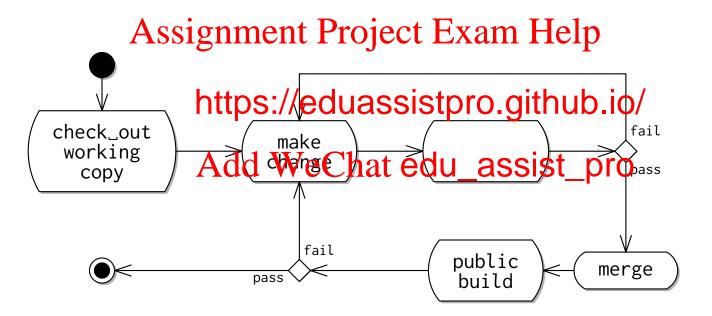
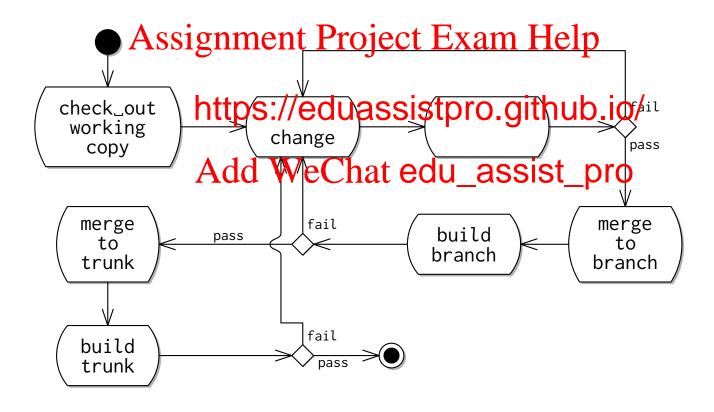


Figure: the continuous integration workflow for a developer

Preventing broken builds with branches



Maintaining visibility

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- Push notification that the Push notification that is a push not in the push notification that is a push not in the push notification that is a push not in the push not in the push not that is a push not in the push not in t
- Broadcast mechaniamy such as eliminassist_pro nitor on a large screen display in the developmen

CI metrics for project stability

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Unsuccessful buil ures how frequently a projectips://eduassistpro.github.io/

Average unsuccessful testement edu_assist_proo estimate the rate at which defects are introduced into a p implementation of new features

Time to build is important to monitor to ensure that a CI process remains viable.

Jenkins build stability reports

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The importance of fast builds

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- Delays in complete build will also https://eduassistpro.github.io/discovery of any problems.
 Developers will be
- Developers will be deterred from making frequent commits, because the need to wait for a build to complete will reduce productivity.

Tuning build speeds

- Reconfigures the huridente of the ensure that no unnecessary steps are being undertak is being built. https://eduassistpro.github.io/
- Configure several different types of build that are performed to Cliffare edu_assist_pro parts of the project and/or causes of change.
- Prioritise test cases and then partition them into different categories for different types of build.
- Partition large projects into smaller well defined components that can be developed concurrently.

Continuous deployment

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- Ensures that the deployment process is resist_pro
- Different feature variants can be deployed to different users.

Continuous integration environments

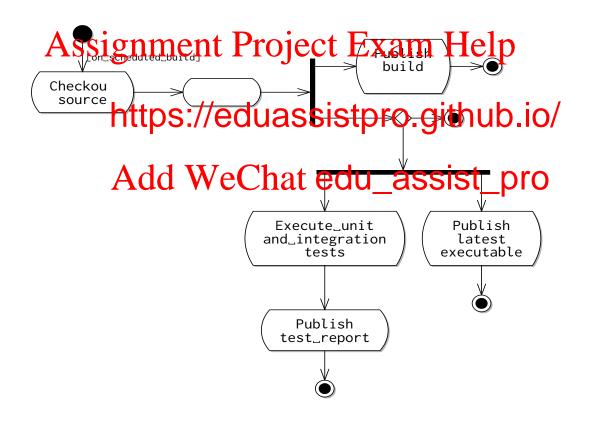
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Add Wreisharedu_assist_pro
BuildBot
Integrity

Table: some continuous integration environments

Continuous integration environment workflow



Key message

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Continuous in ttps://eduassistpro.githubeithe

disruption caused by rapid concuassist_pro

software systems.

PI Question (session1280)

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In AE2, HASSignments Project Examplelp
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- B: 2 Add WeChat edu_assist_pro
- □ C: 3
- □ D: 4