Google Summer Of Code 2016. Jenkins project

Abstract:
- This document contains drafts of Jenkins project application. Obvious fields have been skipped
- Responsible Org Admins: Oleg Nenashev, Baptiste Mathus, R Tyler Croy
- Wiki page: https://wiki.jenkins-ci.org/display/JENKINS/Google+Summer+Of+Code+2016

Organization Profile

- Tagline (up to 80 symbols): Jenkins is an open-source automation server
- Technology tags: java, jenkins, groovy, html, css
- Topic Tags: automation, continuous integration, continuous delivery, java,development
- Ideas list: https://wiki.jenkins-ci.org/display/JENKINS/Google+Summer+Of+Code+2016
- Short description:

  Jenkins is the open source automation server. Built primarily in Java, it provides hundreds of plugins to support building, testing, deploying and automating virtually any project.

- Long description (Markdown):

  [Jenkins](https://jenkins-ci.org/), originally founded in 2006 as "Hudson", is one of the leading automation servers available. Using an extensible, plugin-based architecture developers have created hundreds of plugins to adapt Jenkins to a multitude of build, test, and deployment automation workloads. Jenkins core is open-source ([MIT License](http://www.opensource.org/licenses/mit-license.php))

  In 2015, Jenkins surpassed 100,000 known installations making it the most widely deployed automation server. The Jenkins project has a big community (about 300 active contributors), which includes many people working on Jenkins core, plugins, website, project infrastructure, community management and localization activities. In the project we release new Jenkins version almost every week, a [stabilization release]((https://wiki.jenkins-ci.org/display/JENKINS/LTS+Release+Line) every three months and maintain the backward compatibility for more than eight years.

In 2016 the Jenkins project is planning to release Jenkins 2.0. This is a major effort targeting the user experience in wide terms. It includes not only user interface changes, but also availability improvements and major new features like Pipeline-as-code. The activity involves all components of Jenkins: core, plugins, website and internal automation infrastructure.

This year we invite students to join the Jenkins community and to work together on the ongoing Jenkins 2.0 activities and other medium-term projects.

- Proposal process:

  In order to apply to the organization, please use the [jenkinsci-dev](https://groups.google.com/forum/#!forum/jenkinsci-dev) Google group. Please note that this list is publicly visible inside and outside the community. It is required for the initial review and feedback collection.

  Prerequisites:
  * You must join the [jenkinsci-dev](https://groups.google.com/forum/#!forum/jenkinsci-dev) Google group
  * You must have an account on [GitHub](https://github.com)

  First e-mail recommendations:
  * Please use the "[GSoC2016] - " prefix in your message
  * In the first e-mail we would be interested to see the following information:
   * A short self-introduction: area of study, interests, background
   * Motivation letter. Why are you interested in Jenkins project? On which project areas would you like to work? If there are particular proposals, please let us know about them as well
   * If you participate in open-source projects, please reference them
   * If you have profile pages in professional networks like LinkedIn, please refer them
   * If you have a twitter account, a blog or technical/scientific publications, please refer them as well

  If you have any questions during the application process, please feel free to contact us via the [IRC channel](https://jenkins-ci.org/content/chat/) or the mailing list.

- Proposal tags:
  - new feature
  - user experience
  - plugins
  - jenkins core
  - test automation
  - project infrastructure

- website
- reliability
- scalability
- embedded

- General-purpose e-mail:
  - jenkinsci-gsoc-orgs@googlegroups.com

Application

1. Why does your org want to participate in Google Summer of Code?
   - In year 2016 Jenkins project does a major effort to release Jenkins 2.0, which includes UX improvements in the short-term perspective and major architectural changes in the middle-term. In the project we are interested in more contributors in both Jenkins core and more than 1,000 of existing plugins. We consider Google Summer of Code as an opportunity to find new contributors and students interested in software development automation (continuous integration and continuous delivery).
2. How will you keep mentors engaged with their students?
   - * Any student project will have at least two mentors + 1 org admin for private escalations.
   - * Mentors are expected to be accomplished Jenkins contributors.
   - * Mentors should have professional interest and expertise in the area of student projects. We do not require mentors to be experts in the code base, because we expect students to work with other community members.
   - * We will conduct Weekly meetings between mentors and org admins to sync-up on progress and any issues.
   - * If a student project involves a particular Jenkins plugin, we will ask one of the plugin maintainers to become a mentor in this project project.
3. How will you help your students stay on schedule to complete their projects?
   - * The student project milestones will be discussed and confirmed between mentors and students. One of milestones will be a proof-of-concept public review in the middle of the project (early July).
   - * During the planning phase mentors will share their expertise in order to define realistic project plans and effort estimations.
   - * Mentors should be available to questions. They should also provide a periodic feedback on the progress of the project and on the performance of particular students (1x1).
   - * Weekly office-hours with students (or two meetings if time-zones require it) in addition to common Jenkins office hours.
4. How will you get your students involved in your community during GSoC?
   - * Students will cooperate with Jenkins community during the project. Org Admins will be responsible to provide an introductory training (community overview, code-of-conduct, etc.), mentors should help students to establish contacts with experts from the community

- ○ * Students will be encouraged to present proofs-of-concept of their projects on public Jenkins Office Hours (https://wiki.jenkins-ci.org/display/JENKINS/Office+Hours).
- ○ * Students will be involved into all standard processes in the Jenkins community (inc. pull requests, code reviews, IRC discussions,test automation for their projects, documentation development, etc.).
- ○ * Students will be advised to participate in Jenkins Governance Meetings (https://wiki.jenkins-ci.org/display/JENKINS/Governance+Meeting+Agenda). They will be considered as community members with all voting rights.
- ○ The Jenkins project has an active blog, and students will be encouraged to use this to give updates to the wider community.

5. How will you keep students involved with your community after GSoC?
   - ○ * Once the project is completed, we will work with students in order to convert them into long-term community members
   - ○ * There will be a Jenkins World conference in Santa Clara in September 2016 (CFP: http://jenkins-ci.org/blog/2016/01/27/jenkins-world-call-for-papers/). At this event we plan to conduct a session for GSoC students if the application gets accepted. We plan to schedule at least lightning talks by students about their GSoC projects, which will be prepared with help from their mentors.
   - ○ * Students will be also advised to present their projects at local Jenkins Area Meetups (https://wiki.jenkins-ci.org/display/JENKINS/Jenkins+Area+Meetup)
   - ○ * Each project will have a strict Definition Of Done: public availability, integration into Jenkins Acceptance Test Harness, blog posts (https://jenkins-ci.org/node/). The students will be visible in the community even after the main GSoC phase.

6. Has your org been accepted as a mentoring org in Google Summer of Code before?
   - ○ No

7. If your org has applied for GSoC before but not been accepted, select the years
   - ○ 2009

8. If you are a new organization to GSoC, is there a Google employee or previously participating organization who will vouch for you? If so, please enter their name, contact email, and relationship to your organization. (optional)
   - ○ * Akshay Dayal, Product Manager, Jenkins remoting lib contributor, akshayd@google.com
   - ○ * Matt Moore, SW. Engineer (Dev. Tools), Plugin contributor, mattmoor@google.com

9. Are you part of a foundation/umbrella organization?
   - ○ Yes, Software in the Public Interest, Inc. (http://spi-inc.org) a 501 (c) (3) non-profit organization

10. Anything else we should know (optional)?
   - ○ Several organizers and mentors work for CloudBees Inc., a provider of services around Jenkins, but they are also independent Jenkins contributors. The entire GSoC activity is being done by them independently from CloudBees product plans during personal time or a dedicated time for open-source contribution. Org admins project are responsible to investigate/prevent potential conflicts of interest

- One of the org admins (R Tyler Croy) is a Jenkins board member and was a GSoC student in 2005 with FreeBSD