Google Summer Of Code 2017. Jenkins project

Disclaimer: This document is a copy of the GSoC2016 application. Some sections need update and modification since the application form has changed.

Abstract:
- This document contains drafts of Jenkins project application. Obvious fields have been skipped
- Responsible Org Admins: Oleg Nenashev, Baptiste Mathus, R Tyler Croy, Steven Christou, Robert Sandell
- Landing page: https://jenkins.io/projects/gsoc/

Organization Profile

- Tagline (up to 80 symbols): Jenkins is an open-source automation server
- Technology tags: java, jenkins, groovy, javascript
- Topic Tags: automation, continuous integration, continuous delivery, developer tools,
- Ideas list: https://jenkins.io/projects/gsoc/#project-ideas
- 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.io/), 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 2016, Jenkins surpassed 140,000 known installations making it the most widely deployed automation server. We also released Jenkins 2, which enhanced user experience and provided features such as Jenkins Pipeline to help users implement continuous delivery. The project has about 300 active contributors working on Jenkins core, plugins, website, project infrastructure, localization activities, etc. In total we have around 2000 different components including plugins, libraries, and various utilities. The main languages in the project are Java, Groovy and JavaScript, but we also have components written in other languages.

This year we invite students to join the Jenkins community and to work together on Jenkins plugins in order to improve Jenkins user experience and reliability. You can work on highly anticipated features like [BlueOcean](https://jenkins.io/projects/blueocean/), [Jenkins Pipeline](https://jenkins.io/doc/book/pipeline/) and various integrations with other modern technologies (e.g. Docker, Elasticsearch, etc.).

- Proposal process:

    In order to apply to the organization, please follow the [guidelines posted on our website](https://jenkins.io/projects/gsoc/#student-application-process).

    Before submitting please go through the page (including the expectations section) and through the [Student guide](http://write.flossmanuals.net/gsocstudentguide/). Participating in Google Summer of Code is a serious commitment requiring an almost full-time dedication over several months. If It may overlap with your study and other commitments, we recommend to think twice before applying.

    If you have any questions about the application process, please feel free to contact us via the "*jenkinsci-gsoc-orgs@googlegroups.com*" mailing list.

- Proposal tags (max - 10):
    - new feature
    - user experience
    - plugins
    - test automation
    -
    - electronic design automation

- Chat page URL
    - https://jenkins.io/content/chat
- Mailing list page URL:
    - https://jenkins.io/projects/gsoc/#chat-and-mailing-lists
- General-purpose e-mail:
    - jenkinsci-gsoc-orgs@googlegroups.com

Application

1. Why does your org want to participate in Google Summer of Code?

- In our community 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). For us it is also a great opportunity to get existing contributors more involved into the community work. We have previously participated in GSoC 2016 and got much experience from it, especially regarding the student selection process. We hope this experience will help us to improve student/mentor experience and overall results on this year.

2. How many potential mentors have agreed to participate?
   - 6-10

3. How will you keep mentors engaged with their students?
   - * Each student project will have at least 2+ mentors AND org admin advisor assigned to the project.
   - * Mentors are expected to be accomplished Jenkins contributors, who are passionate about the community/mentorship work.
   - * Mentors bring their own project, and they are expected to have a high interest in it
   - * 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.
   - * As org admins we will be monitoring mentor/student interaction starting from the application phase. If something goes wrong, as org admins we will jump in and/or find additional mentors

4. How will you help your students stay on schedule to complete their projects?
   - * During the Community Bonding phase mentors will share their expertise in order to define realistic project plans and effort estimations.
   - * The student project milestones will be discussed and confirmed between mentors and students. Milestones will be aligned with student evaluations and will have clear expectations set up.
   - * Mentors will set up regular meetings with students (at least twice per week) in order to sync-up on projects. We will also recommend having retrospectives with students after evaluations.
   - * 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).
   - * We will set up weekly public office-hours with students (or two meetings if time-zones require it)

5. How will you get your students involved in your community during GSoC?
   - * Students will cooperate with Jenkins community during the project. Org Admins will provide an introductory training (community overview, code-of-conduct, etc.), then mentors will help students to establish contacts with experts from the community
   - * We will ensure that students are around in public chats and other communication channels during the "working days"

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

6. How will you keep students involved with your community after GSoC?
   - ○ * There will be a [Jenkins World conference](https://www.cloudbees.com/jenkinsworld/home) in USA on Aug 30-31). We plan sponsoring successful students to go to this or the next conference.The projects will be also presented at the [Jenkins Online Meetup](https://www.meetup.com/Jenkins-online-meetup/).
   - ○ * Students will be developing their own modules for Jenkins and effectively they will retain ownership of these modules after GSoC (they can opt-out, of course). Public presentations will attract attention, and the students will be periodically contacted by users.
   - ○ * Students will be also advised to present their projects at local Jenkins Area Meetups (https://jenkins.io/projects/jam)
   - ○ * Each project will have a strict Definition Of Done: public availability, Q&A chats, [blog posts on the project website](https://jenkins.io/node/). The students will be visible in the community even after the main GSoC phase.

7. Has your org been accepted as a mentoring org in Google Summer of Code before?
   - ○ Yes, 2016

For each year your organization has participated, provide the counts of successful and total students. (e.g. 2016: 3/4)

- ● 2016: 1/5 (3 students have been failed due to major undisclosed time commitments, which impacted the project quality at the first coding phase)

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

9. 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)
   - ○ <EMPTY>

10. 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

11. Anything else we should know (optional)?
    - ○ Several org admins 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.