**Systers 2017 GSOC Student Application**

*Questions 2-6 required.*

## Community Questions

**1. [Optional] Are you a Syster (**[**www.systers.org**](http://www.systers.org/)**)? Would you join if you are accepted? (Note: Systers is only open to women in computing; if you are male, you may not join, though you are welcome to join** [**systers-dev**](http://systers.org/mailman/listinfo/systers-dev) **and our** [**Slack**](http://systers.io/slack-systers-opensource/) **team channel.)**

1. No I’m not a syster

**2. How can we reach you (email, GTalk, slack etc.) if we have questions about your application?**

1. My email address: [yvss.santosh@gmail.com](mailto:yvss.santosh@gmail.com)
2. My slack username: yvsssantosh

**3**. **What is your github username(s):**

1. My github username: yvsssantosh

URL: <https://www.github.com/yvsssantosh>

## Project Specific Questions

4. **Which Systers GSoC project are you applying for (*please submit a separate application for each project*):**

The various projects which I’m applying for are:

1. Conference Application (Windows)
2. Hopper(Volunteer) Application (Windows)
3. Power Up (iOS)
4. My Own Proposal (Ruby on Rails)
5. Testing automation

[List of Projects](https://github.com/systers/ossprojects/wiki/GSoC-2017)

4a. What do you plan to accomplish over this summer for this project? (Should be in timeline format. Please tell us what project you want to work on, how you will approach working on that project, and what your milestones are with dates included. You may ask for help from mentors in Slack in the #gsoc-questions channel if you are unsure about this process. Although, being able to realistically estimate how much you will be able to accomplish is an **important part** of this proposal.)

5. Please answer questions appropriate to the stage of the project/your contribution level:

5a. [Optional] Setup your environment for the project you chose in question #4. Include the link of your forked repository and a screenshot of your laptop running the application. (Make sure the screenshot contains the time and date as well.)

5a. [Optional] Look through the issues opened on the project’s GitHub page and find a bug. Comment on the issue that you are a GSoC aspirant. Link the issue and the pull request here. (DO NOT copy anyone else’s work.)

5b. [Optional] Include wireframes of the new applications. Which prototyping tool did you choose? Include [notes](http://media.balsamiq.com/img/support/docs/m4d/markup-on.png) of each element (i.e. [accordion menu](http://ui-patterns.com/patterns/AccordionMenu), [bottom navigation](http://uipatterns.io/bottom-navigation), etc.) and why you chose that method/icon.

5c. [Optional] For new apps, what do you believe are the minimum features required? Why? For established apps, what areas do you believe can be improved? How?

1. This proposal is for the project Conference App (for Windows Platform) and since this is a new app I’d like to propose the following requirements:

Software requirements:

1. Microsoft Visual Studio – IDE to develop the UWP application
2. MySQL Server – Will act as the Database for the application
3. PHP – Will act as the backend for the application
4. Windows Developer Account (to release the app in the store)

Technical requirements:

Since it’s a conference application s

6. [Optional] If you have your own project to propose, please describe it here: (Include all of the above questions if they help form your project idea.)

## Systers Projects

### Mailman

*If you are interested in Mailman, please answer questions 7 & 8.*

7. We/Systers work very closely with the Mailman community. We have a very customized version of older Mailman version, but have contributed to Mailman 3.0. During installation, what problems, if any, were presented? Describe those problems. Was there anything that prevented you from getting the entire system up and running?

8. We are converting to MM3 from MM2.12. There are 3 administrative reporting [issues](https://github.com/systers/mailman3/issues) open. How would you approach these issues? (We aren't that interested in actual solution, but more in how you went about learning about the code and solving a problem. Please describe your experience from that perspective)

### Powerup

*If you are interested in Powerup, please answer question 9-10.*

9. Some of these images are not clean or minimal. Do you have any design experience? Please include samples of your design work. What can be removed or improved upon with Powerup’s design to help attract younger generations of girls to use the app?

10. What kind of experience do you have with mobile applications? Have you ever worked on game development? Please describe your experience in detail.

### Conference/Hopper App

*If you are interested in Conference/Hopper projects, please answer question 11-12.*

11. What kind of experience do you have with Android, iOS, or Windows Phone development? Do you have any design or UI experience? Describe in detail. Include any links to previous work/projects.

12. Have you had any experience with accessibility design? How do you develop/design applications to be inclusive for people with disabilities?

## Peace Corps Projects

This year we are working on various Peace Corps (PC) projects. This is truly an agile environment and working with Systers, technical mentors and/or PC reps and PC volunteers (PCVs). Engagement will be crucial.

### Web Projects

*If you're interested in any of the Web Projects, please answer questions 13-15.*

13. Have you worked in web development? HTML, PHP, JS, Python, Django, Ruby, Rails, or Perl? If so, please describe your experience or project (i.e. school assignment, personal project or other experience). Include any relevant links.

14. Do you have any experience working with humanitarian projects?

15. PCVs are often located in offline areas. What kind of experience, if any, do you have with working on projects to make them available both online and offline?

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## Testing Projects

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### Automated Unit Testing Project

*If you are interested in AUT projects, please answer question 15-16.*

15. What kind of experience do you have with Java, Python, Selenium, or Travis CI? Please describe the experience, what you learned, and how you worked with others to gain needed information.

16. What would be your strategy for testing the same application across three platforms? (i.e. Conference App has iOS, Android, and Windows)

## General Development and Education Questions

*All questions (17-25) must be answered in this section.*

17. Why do you think you are a good candidate for this project? Describe the skills you confidently bring to the project, what you hope to learn from working on this project, and your interest in the Systers mission.

18. We have various projects in Python, Ruby, Android, iOS and Ushahidi. Describe the *largest* project you have completed in any of the programming languages mentioned. (Include # of members, time zones, etc.) If you haven't used any of the programming languages, describe the programming experience you have that will allow you to learn a programming language quickly and be successful on this project.

1. I have worked of various major projects having various expertise from the about. The largest projects are:
   1. Flappy Bird Game(iOS)
   2. Smart Home (Augmented Reality with DragonBoard 410c and Unity3d - Universal Windows Platform)
   3. Crowning and wearing sunglasses (Javascript, OpenCV)
   4. Go-2-Run Game (Android)
   5. Library Management System (C#, ASP.NET)
   6. Placement Management System (Python)

19. We use GitHub for our projects. Do you have experience with any version control software? Please describe the experience and list the different softwares.

1. Yes. Since I have been working from the past year for open source projects I’m quite well versed with GitHub and GitLab also have experience from my internship where colleagues share the code using GitLab private repositories (since I’m working as an intern for the organization the repositories are private).

Also, currently I’m storing all the mockups and proposals in my private repository in GitHub private repository to which I got access thanks to GitHub Student Developer Pack which gives me access to unlimited private repositories in GitHub and many more offers.

20. Describe any commitments you have over the time period of GSOC (including the community bonding period), such as classes, a summer job, vacation plans, final exams, master's thesis, etc.

1. The only commitment I have during the period of GSoC is my final year exams which are from 3rd May 2017 – 13th May 2017. Once these are done I’d love to give full commitment to the project I’m working on and complete it in the given time.

**21. Education:**

* **What year are you in school?**

1. I’m currently pursuing my final years in Bachelors of Technology which is also known as IV-II Semester

* **What programming courses have you taken?**

1. The various programming courses I took in my school are:
   1. Objective – C (in 2nd year i.e. 2014)
   2. Java, JSP, PHP, MySQL, ASP.NET, ADO.NET (in 3rd Year i.e. 2015)
   3. Windows (UWP, ASP.NET, ADO.NET, Windows Phone 8.1, Unity Game Development and Augmented Reality), Swift (in 3rd Year ending i.e. 2016)
   4. Python, Django, NodeJS, HapiJS (as a part of my Internship).
   * **What did you like about them? What did you not like?**

I always had a passion towards computers so programming is something I fascinate. Whatever I do related to programming…I just love it and I never felt any dislike towards it even if I’m unable to find an answer to a question because that’s what makes it more interested to work on.

* **What is your major?**
  + Why have you chosen that?

My major is CSE i.e. Computer Science and Engineering.

The reason for me to choose this subject because I was always fascinated about programming and I like doing research and learn new things.

* **Have you done group projects (programming or otherwise)?**

Yes, I’ve done projects in groups.

* + **What was your primary contribution/role in the group?**

I never focus in a particular role but if I were to do that, I’d like to take the backend development of the project because, always there is something challenging in it and something new which will give me a better experience on how to approach a problem or similar kinds of problems when I face them.

Also, if possible I’d love to take the role of the team captain since being the captain, it’d be rather easy for me to guide everyone in the team and take up the challenging modules in a project and to help my teammates if they’re facing any issues in the project.

* + **What made working in a group better than alone? What made it harder?**

Working in a group makes me feel at ease because the work is divided into various modules which are assigned to different people, thus reducing the burden. I agree that there are sometimes when people are unable to cope up with the project. In such cases I usually help them out to understand the problem and explain it to others in a simpler manner. If I were to face the same situation then I’d definitely ask help of my teammates and discuss the issue I’m facing. So even if no one understands then a discussion would rather give a deeper insight and we never know anyone might come up with an answer.

**22. Do you have professional work experience in programming? Tell us about it.**

1. Yes. I’ve been working as an intern at [TheSmartLabs](http://thesmartlabs.com/) from the past 6 months which digitalize diagnostics and deliver healthcare in a smart way. I’m working as a Full Stack Developer and have developed various apps in Django, NodeJS, etc.

Working at TheSmartLabs I’ve really come to understand how companies work, maintaining timelines and to deliver the products to clients in time. Since this is a startup, I’m not just assigned to one type of work, which led me to the opportunity to explore various programming languages and concepts which further led me to develop a refined and a strong skillset.

**23. Do you have previous open source experience? (Not including the work mentioned about Systers’ projects contributions.) Tell us what you have done. (i.e. Hacktoberfest, etc.)**

1. Yes, I have open source contributions. I’ve contributed for Teammates Organization, Open Medical Record Systems.

I have some experience working with OpenCV and have also deployed a sample application which on giving an input as the image of a person then coronates that person with a golden crown. The link to the deployed application is given below

<http://ocvcrown.azurewebsites.net/>

I often participate in various Hackerrank contests, Hackerearth competitions to improve my coding skills and to tackle a problem in different ways.

**24. What would your dream job be if money was not a factor? (i.e. bookstore owner, dog walker, professional cupcake taster etc.)**

1. To write my own operating system and give it a personalized user experience (more like Jarvis from Iron Man).

**25. Schedule a 15-min interview with Maybellin Burgos. Fill out this** [**whenisgood**](http://whenisgood.net/systers-gsoc17-interviews) **and May will reach out with a Google Calendar invite.**