

Systers 2017 GSOC Student Application

Questions 2-6 required.

Community Questions

1. [Optional] Are you a Syster (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](#) and our [Slack](#) team channel.)

No , I'm not a Syster .

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

You can reach me via email , Slack .

Email - rathishubham017@gmail.com

Slack – shubhamrathi@icloud.com

3. What is your github username(s):

Github username – [rathishubham7](https://github.com/rathishubham7)

Project Specific Questions

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

ConferenceApp (iOS)

[List of Projects](#)

- 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.)

Timeline

5th May – 30th May

- Community Bonding period.

30th May – 6th June

- Finalising changes on UI Mocks by mentor.
- Finalising Application Architecture, usually **MVC**. (other options **MVVM – FRP**)
- Making a prototype using [inVision](#) or any other similar tool (*if required*).

6th June – 13th June

- Setting up the application in Xcode.
- Starting with Login and SignUp controllers (Login via Social profiles – Github , facebook , twitter , google+)
- Persistent login sessions, Extensive Autolayout usage to support different orientation and Devices.

13th June – 30th June

- After User Authentication, setting up the UITabViewController.
- Starting with UICollectionView flow layout for the schedule tab, Horizontal scroll for conference events, **XLPagerTab** strip for different tabs (Day1 , Day 2 ,Day3) .
- Implementing **Map View Controller** – using tabs.
- Implementing **Speakers** Tab, **News** Tab, **My Schedule** Tab.
- The hamburger menu – swipe from left for more pages like, sponsors etc. (*if need be*)

1st July – 15th July

- Extensive coding as resolving any issues related to UI of the application.
- Integrating **Etouches API**, Binding data with the views already built.
- Setting up methods for Data update as soon as they change on sever (Something like **FRP**).

15th July – 1st August

- Setting up **CoreData** for offline access to Schedule, Maps, Speakers etc. (Basically data).
- App testing, resolving bugs or and red flags.

1st August – 21th August

- Refactor the code for final submission.
- Any other relevant changes that are required.

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.)

I will setup the environment in Xcode as soon as mentor approves my UI. If need be, I can setup before final submission of this proposal.

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.)

Issue in Malerial - iOS app(I myself raised this issue)

<https://github.com/systers/malaria-app-ios/issues/73>

Issue in powerup - iOS app (I myself raised this issue)

<https://github.com/systers/powerup-iOS/issues/57>

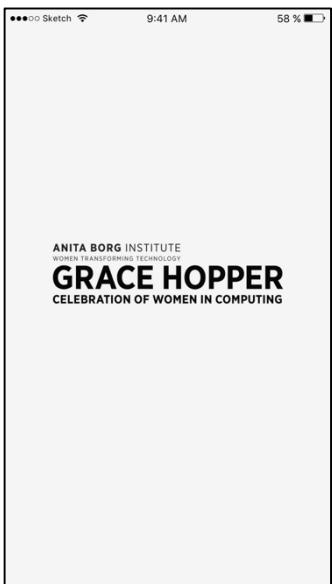
Issue in FirstAide - iOS app (I myself raised this issue)

<https://github.com/systers/FirstAide-iOS/issues/65>

5b. [Optional] Include wireframes of the new applications. Which prototyping tool did you choose? Include notes of each element (i.e. accordion menu, bottom navigation, etc.) and why you chose that method/icon.

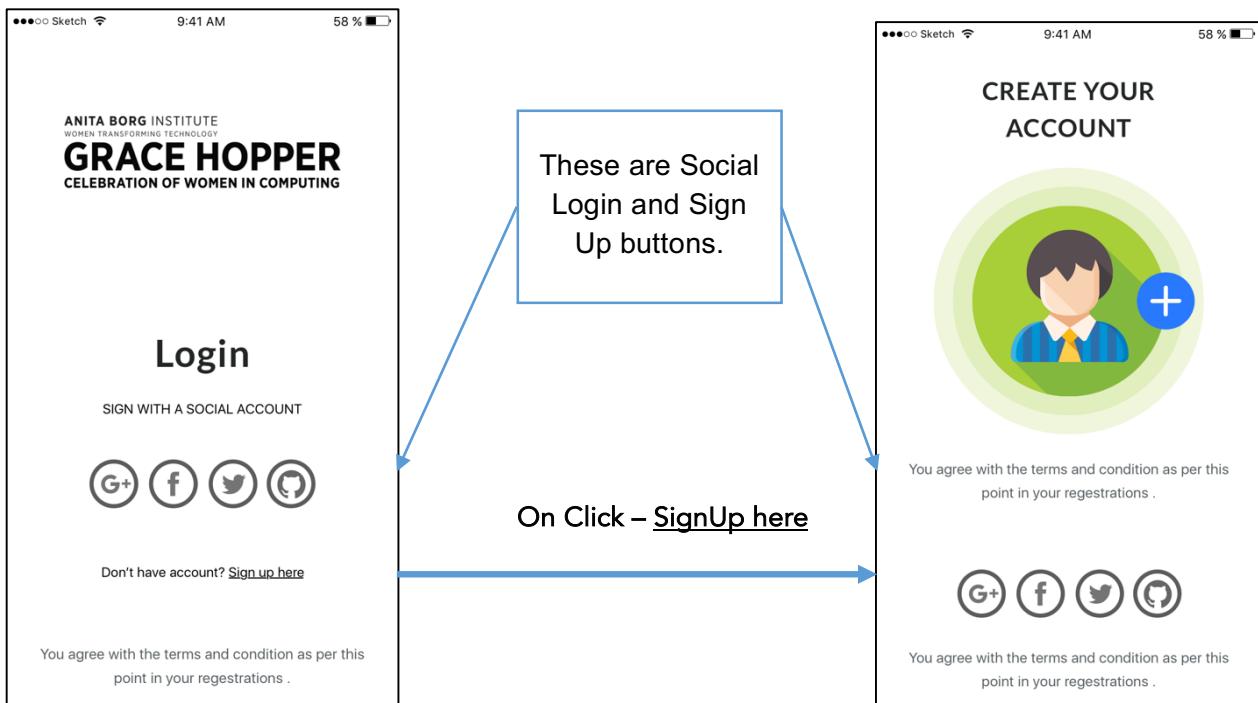
Link to Github for Mocks – [here](#).

Launch Screen (1st screen when the application launches)



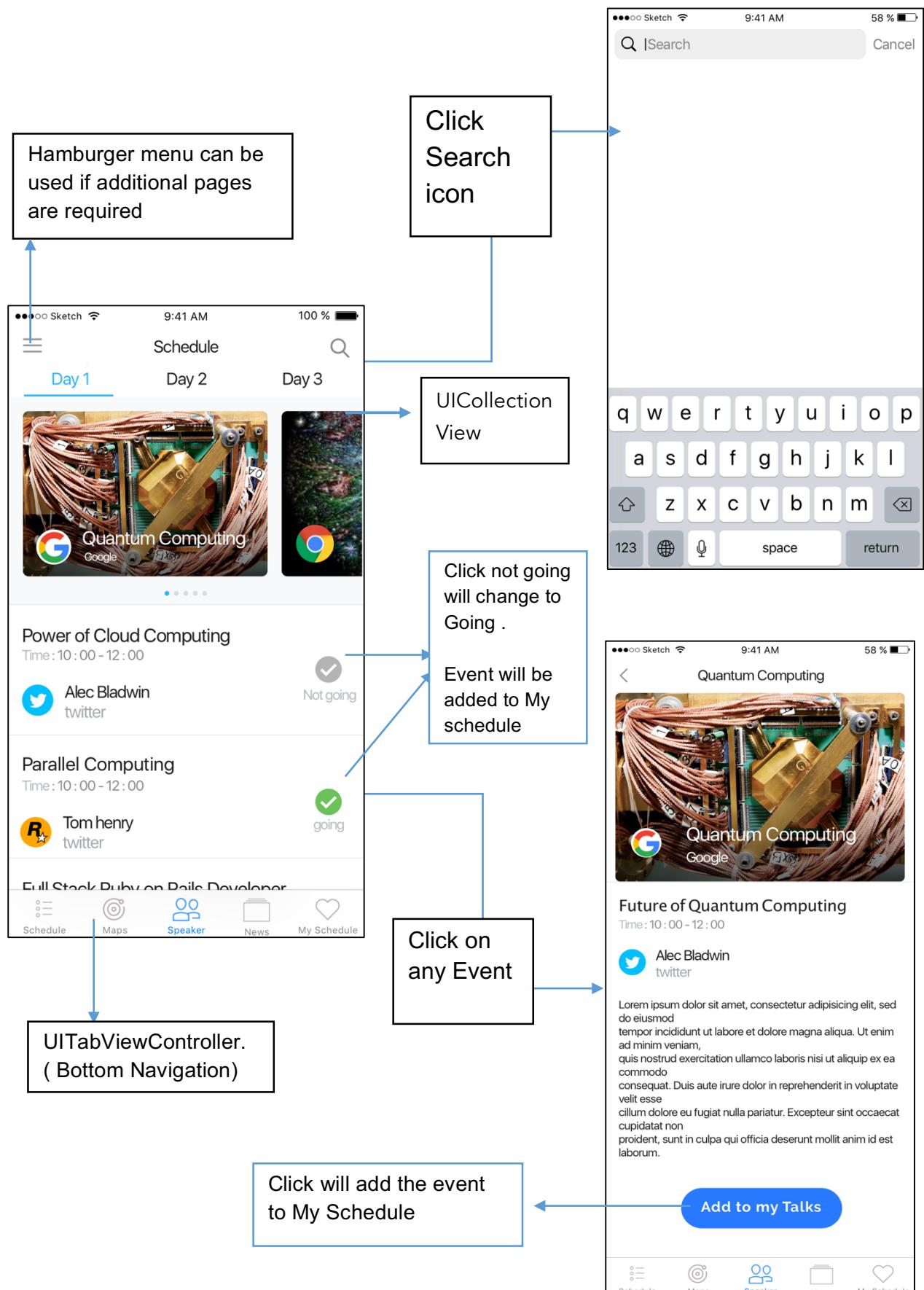
Currently, just the logo has been added . Other Details can be added and colours can be changed according to mentor guidelines.

Login and Sign up Views

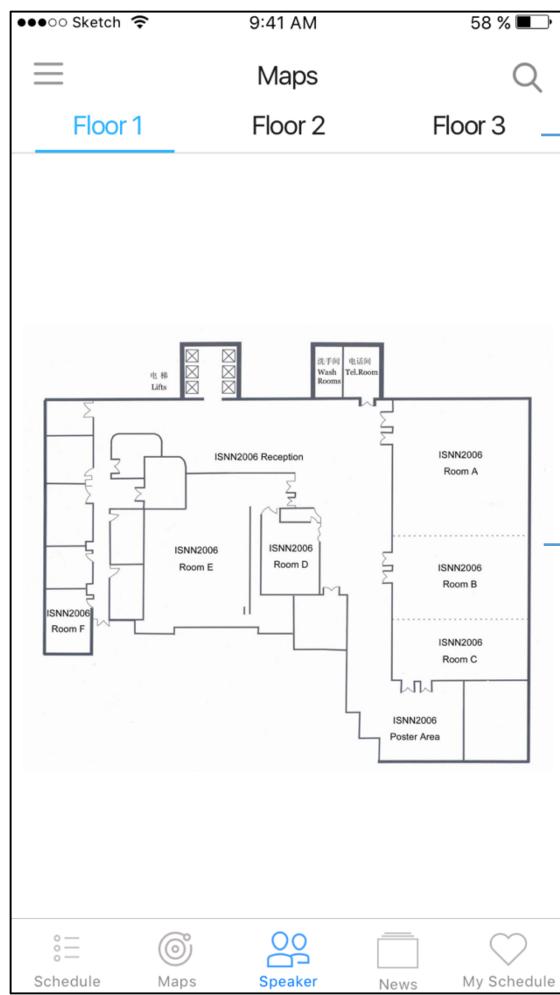


- For a **New user**, after launch screen view redirects to login page . Then he can click Sign up to register for the event .
- For user who already has Signed up , he can use login page to login again .
- For Already Logged in User , the View will automatically redirect to Schedule Page . (coding part – after the launch Screen , View will redirect to Schedule page and check in ViewWillAppear if user is already logged in . If yes then view will remain at the same Schedule page, otherwise view will redirect to login page.)

Main Page – Home Screen of the application



Maps View

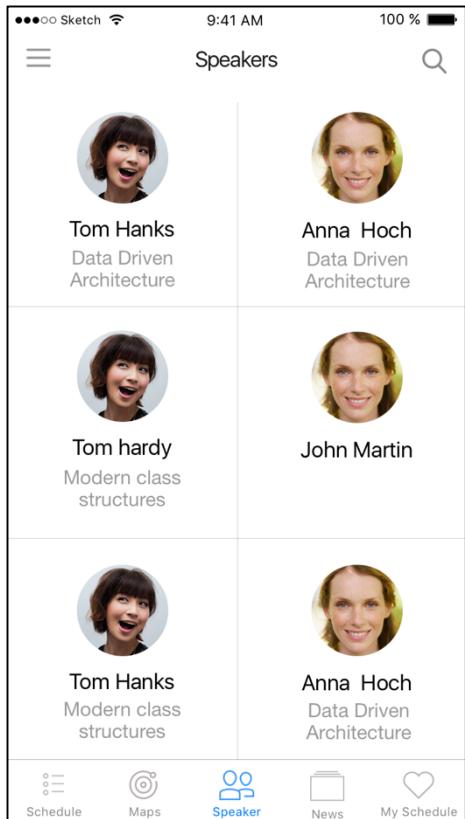


Pager Control (Similar to segmented control). Different floor will have a different map

View for Different maps. User can **Zoom** into the image .

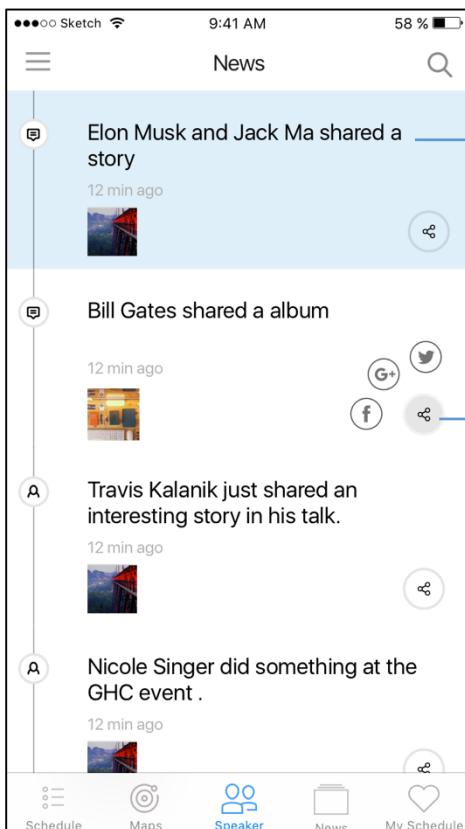
This is Maps view controller . It will show maps of the different floor . This will help the user to navigate to different areas of the event campus .

Speakers Page



Profiles of different speakers at the event.
Also shows their respective Topics on which they'll deliver.

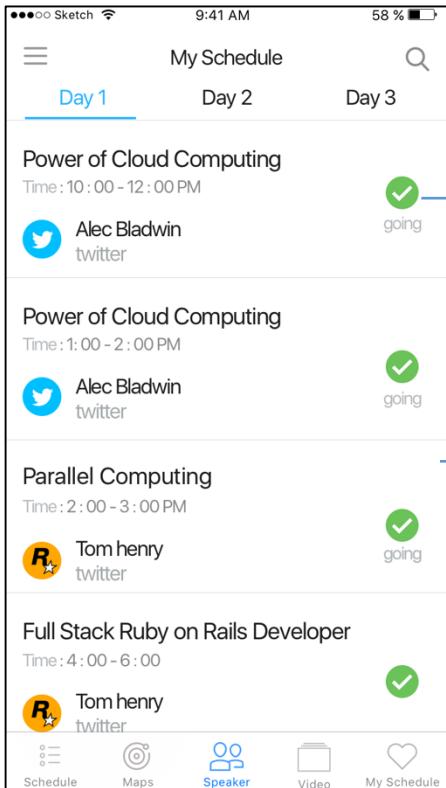
News Page .



Blue background color for new updated news .

On click share button will animate to show facebook, google +, twitter.
Using this you can share the news on different social media platforms

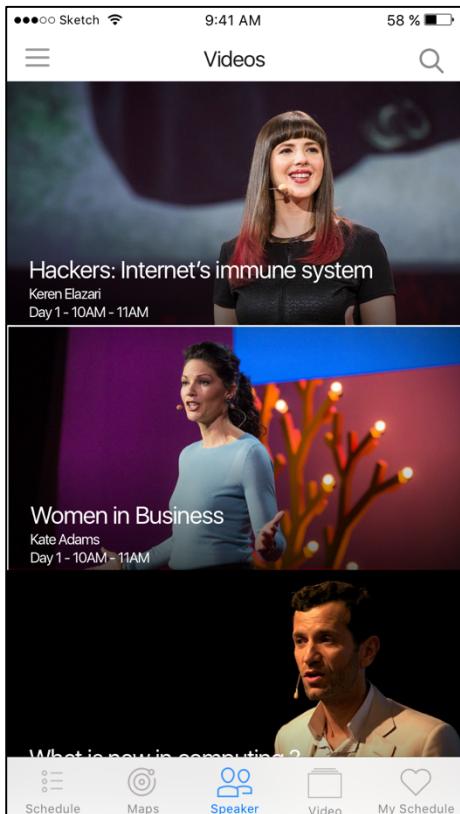
My Schedule .



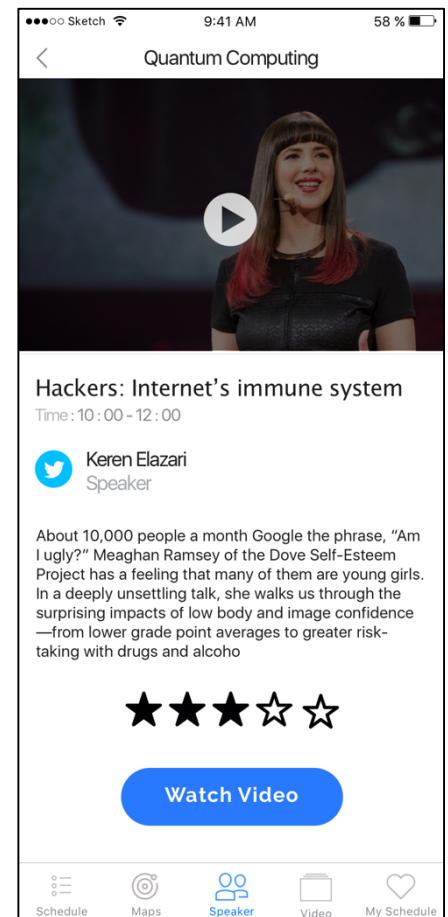
On click the going button will remove the event from My Schedule.
(See Schedule page)

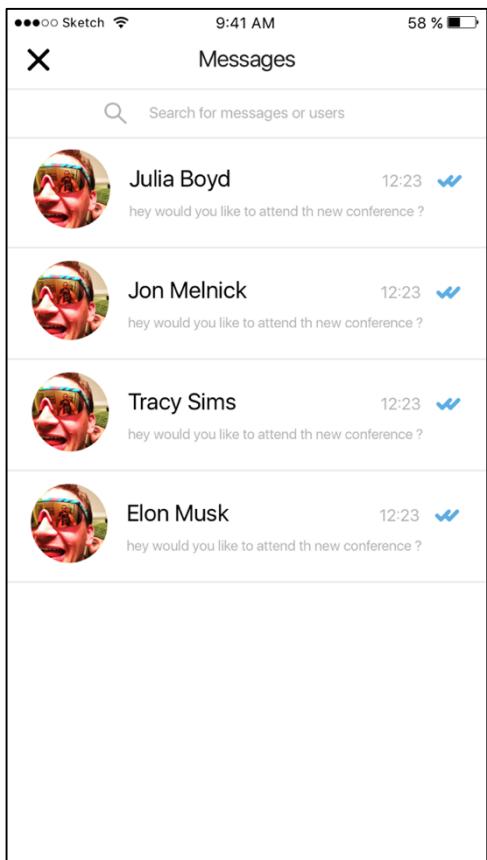
This page is similar to Schedule page

Additional Pages



This page can be used to show Videos to previous lectures .





This Messages screen can be used to communicate between the attendees of the event.

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?

For new apps, I think simple and attractive UI is the minimum required feature. because, I've come across many apps on App store which have all the functionalities but not a minimal and attractive UI.

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](#) 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/Volunteer 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.

I've almost 1 year of experience in swift developing iOS application, both design and development. I have decent amount of experience in UI for iOS apps. links to these designs and applications can be found here

Link - <https://github.com/rathishubham7/ChatApp-firebase>

Link - <https://github.com/rathishubham7/Playground>

Before this I used to be a front end web designer and developer where I've worked on numerous projects of all sorts. So yes, I've excellent amount of experience in UI and design. I've been trying to implement similar design concepts that I learned in my term as a Web developer to my iOS applications while keeping the user guidelines in mind.

Link - <https://github.com/rathishubham7/Edutab-html>

(files my projects can be found on my [Github](#) page).

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

Sorry , I do not have any standing experience with accessibility design . but I'm happy to learn and implement it my application.

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?

Testing Projects

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 (17-24) 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.

I've many reason to work on this project.

Interest

My first reason to work on this project is because it involves iOS app development. I love working in swift. I like building projects from scratch. So, this would help me strengthen my skills as an iOS app developer.

From this project I hope to learn more about app development and open source community. At the same time collaborating with mentors to create a product which will be help my hundreds of people.

Experience

I've right combination of skills that are required for this project. At university, I was the head of a team which was responsible for developing a tool which was used by thousands of students and teachers across the campus. It taught me a lot about micromanaging time and deciding priorities.

Me and my friends started a NGO (<https://www.facebook.com/Constructivity>) 5 years back . We conduct yearly blood donation camp in Nagpur(India). I developed a basic tool for volunteers to manage donors. That application was used by 122 volunteers. Link to that application can't be mentioned due to copyright.

Mission

Systers mission is "to increase number of women in computing" which I whole heartedly support. As said above about my NGO . we're starting a new school project. In which we're planning to take 5 hours/week out of schedule to teach under privileged kids (government school) about science. It includes all the streams of science not only computer science. We need to bring more and more people together to work for such a cause. I truly support 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.

Programming in Swift (iOS) is amazing. I enjoy it a lot. It's my primary language. I actually took couple of sessions in my university to share my knowledge on swift and iOS app development. It's important to aware students of upcoming and new programming language that Apple introduced couple of years ago.

Biggest project that I've worked (**iOS**) on is application to help the Volunteers manage the donors at blood donation camp that we took last summer (As mentioned above). I made the UI for the application from scratch. During this I gained a variety of user responses and suggestions about my application.

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.

Yes, I believe any version control software is a prerequisite for group projects . I am very familiar with Github and I use it on daily basis.

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.

I've no prior commitments during GSOC period.

21. Education:

- What year are you in school?

BITS PILANI K K BIRLA GOA CAMPUS, 3rd Year.

- What programming courses have you taken?
 - What did you like about them? What did you not like?

I took C programming lessons in my college. C programming lessons were good. I got to learn a lot about algorithms and fundamentals of computer science.

Rest I'm self-taught from the internet (Coursera, Udacity, Youtube channels)

- What is your major?
 - Why have you chosen that?

Major – Mechanical + Msc. Mathematics

My main interest is mathematics. I chose maths because I think that maths is a very requirement for any Computer science related fields. Subjects like Discrete maths , cryptography , Algebra etc. interests me a lot .

- Have you done group projects (programming or otherwise)?
 - What was your primary contribution/role in the group?
 - What made working in a group better than alone? What made it harder?

Yes, I've worked on numerous group projects .

Project	Description	Position
Edutab	Creating a web interface for teachers and students to help them ease the academic life in campus	Front end developer , Head .
Constructivity	Application to track position of donors in blood donation camp.	iOS developer, Head .
PS-app	Database for reports of student	UI Designer , Lead

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

Yes, I do have professional experience. I did UI work for couple of Digital agencies. I designed UI for website and small applications. I also contributed to their code

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.)

No , I don't' have any concrete open source experience. But I'd love to start now .

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

a Writer ☺.

25. Schedule a 15 min interview with Maybellin Burgos. Fill out this [whenisgood](#) and May will reach out with a Google Calendar invite.