



COORDINATOR APPLICATION

Department: _____

Name & Roll No.: _____

Hostel & Room No.: _____

Phone No.: _____

Email address: _____

SHAASTRA 2018 COORDINATOR APPLICATION

WEBOPS BACKEND

INSTRUCTIONS:

- The entire application **should not exceed 10 pages.**
- **The number of ideas does not matter if not validated properly. Each idea should be thoroughly thought through before being included in the application**
- **Soft Deadline for submission: 11.55 pm, 16.04.2017.** Interviews will be held for shortlisted candidates, the dates will be mentioned soon.

Current Cores:

| | | |
|----------|--|------------|
| Vikranth | vikranth@shaastra.org | 9940112789 |
| Gokulan | kulan@shaastra.org | 9487886575 |

Previous Year Team:

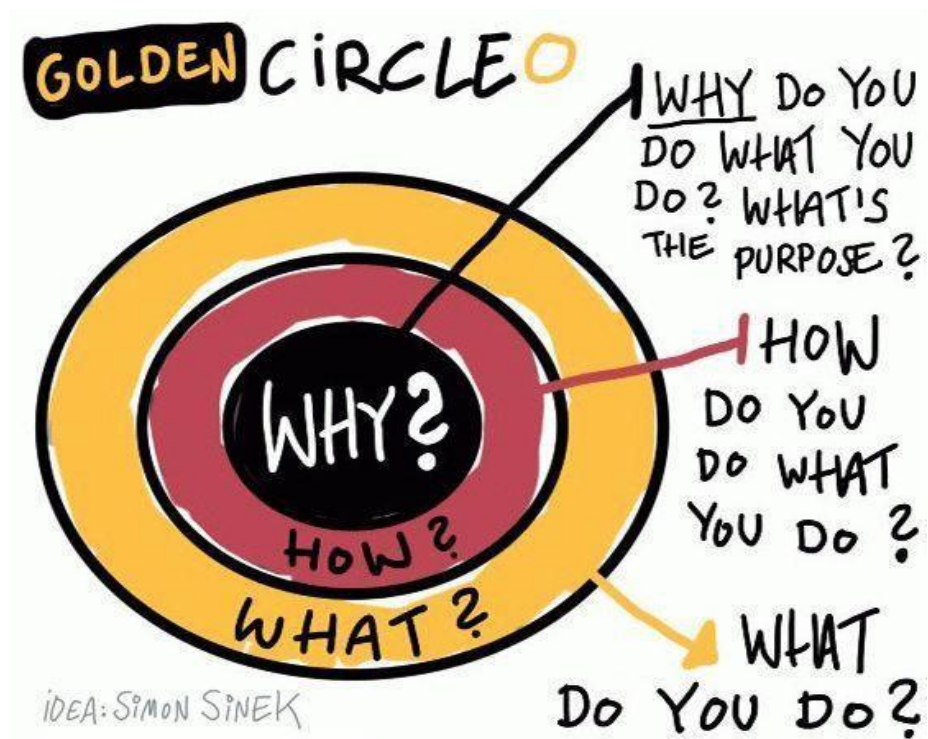
| | |
|---------------------|------------|
| Minu Aswanth | 9976448668 |
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| Umang Sinha | 8283812694 |
| Shubangi | 9940108963 |

- Part A is mandatory for all aspiring coordinators. Part B is a bonus. Super-coordinator applicants have to address both parts.
- Your very own Shaastra journey has begun. Please make sure you have fun along the way. All the best.
- The code needs to be submitted only through Github and the link

needs to be provided in the app.

- Feel free to contact the cores for any queries.
- **Do attach a copy of your grade card. Workflow screenshots are also acceptable.**

The key to any successful undertaking is to understand the Golden circle. Please answer all questions below, after giving this a thought.



Do write about this in your own words in the context of Shaastra.

Rules and Regulations:

- Try solving the question with **MEANSTACK** backend web framework wherever required. **Only use Linux environment such as Ubuntu.**
- Good Luck Guys !! In case of any queries, get in touch with us.
- **Hints / Guides**
Familiarize yourself with AngularJS at <https://www.codeschool.com/courses/shaping-up-with-angular-js>
 - Resources (Learn CSS, html, Javascript with these help):
 - w3schools
 - CodeSchool
 - CodeAcademy
 - You can get started with MEAN stack by understanding how NodeJS works. It should not be an issue for you to do that.
 - You can start of with the series of three tutorials which will completely introduce you to the MEAN stack - [one](#), [two](#), [three](#).
 - You can get a lot of clarity by completing the project mentioned in this Tutorial link: [MeanStack Tutorial](#)
 - Then to just understand the current framework which we will be using, you can refer [here](#).

PART-A:

Q1) Answer the following questions briefly

1. What do you think are the drawbacks of Shaastra 2016 site? It can be related to anything, for example, it may be related to UI/UX (or) performance (or) page design etc.,
2. How do you think you can improve the current Shaastra website? You can list whatever feature you have felt missing and you

feel it would be good if included in the site.

3. What do you think is the role of a Backend department in the Webops (Technically), where do you think the backend department will face problems and also explain the result of those effects on the Website, So list a few Problems and comment on them.

4. What were the drawbacks of Shaastra 2017 site from Backend perspective? Elaborate the reasons properly.

5. Your credentials and references (if any?)

Q2) Job Application Portal

Your task is to build a **Job Application Portal**. All the four questions below are connected with each other. **It's a chain of question broken into parts**. A brief description of its functionalities required is given below pointwise:

1) Users – There will be two types of users–Hiring Manager (admins of the page) and Applicants (Customers). (assign two different roles)

Hiring Managers - They have the ability to Approve/Reject the Applications of the users who have applied. Also they can create New Posts for the Applicants. Incorporate the functionalities mentioned.

Applicants – They can see the list of posts present in the list and can apply for any post.

- **Registration Page** - Allow any visitor to register himself on this page as an applicant. Once he registers, he

becomes a user. The Hiring Managers will be given admin access.

- **Login Page** – A page where the user logs in to his respective portal after his/her registration is done.

2) **HM page** – This is the page that only Hiring Managers can access.

Just keep a Tab in the Main Page which will only be there when a HR logs in and when he clicks it, he enters the HM Portal. They can

- **Add** : They can add whatever the New Post they want to.

Also when they are opening a post they will put a limit for the number of the posts and the number goes down whenever an Applicant is approved.

- **Edit and Delete**: They can edit the details(content) of the post whenever they want to. They can also have the option of deleting a post if they want to.
- **Approval** : So when they click on the name of the post in the table list of the posts they had created they should go to the List of Applicants who have applied for that particular post until then and also should be able to Approve/Reject the Application and also after that the limit number of that post should also be updated if the applicant is approved.

You may get a doubt on what basis should the application be approved or rejected as we are not asking for any file from applicant , that part is asked in the **PART-B**, so

you don't need to bother about it . It is just a random Approval and Rejection.

3) Main Page –This is the starting page that is shown to both applicants and also the admins. The applicants when logged in can take a look at all the posts that are open and also the limit number (as mentioned in the point of HM page) of the posts, If the Limit Number is 0 then the applicants should see post in the list with a Colour change and the buttons for Applying shouldn't be working for that post meaning that the Applications are closed.

- **Applying**– The Applicants should be able to Apply to a particular post if the limit number for that post is not reached.

4) Customer Page – This is a page that is shown to only the applicants. Similar to the HM portal you can have a tab on the main page specifically shown to the applicants when they have logged in.

- **History of their Applications** – The Applicants should see the list of the Posts that they had applied and should also see the information whether the post is Approved or Rejected.

Try to Solve the Questions as much as possible, Partially Solved Questions will also be considered for Evaluation.

Note: Frontend of the website isn't given much importance. Don't waste time on it. At the same time, make sure it is presentable.

PART- B:

- What is your Vision for Backend Department?
- **Payment gateway:** Payments for workshops/accommodation are always an issue in Shaastra for quite a long time. How do you plan to address this issue? List out all the options and filter which is the best for the current framework.
- What is the timeline you are planning for the Backend?
Mention the dates in a Google Calendar (preferably) and share the link here.
- How are you planning to take up the responsibility of the Work of Coords during Summer? What are your plans for Summer?

Problem:

As mentioned about the Applications procedure above , You need to add a feature for the user to **Upload** a **PDF** or any type of Document which will be stored in the database and should be retrieved when the Hiring Manager is Checking the applications for making a decision.