



COORDINATOR APPLICATION

Department: _____

Name & Roll No.: _____

Hostel & Room No.: _____

Phone No.: _____

Email address: _____

SHAASTRA 2018 COORDINATOR APPLICATION

WEBOPS FRONTEND

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@shastra.org	9940112789
Gokulan	kulan@shastra.org	9487886575

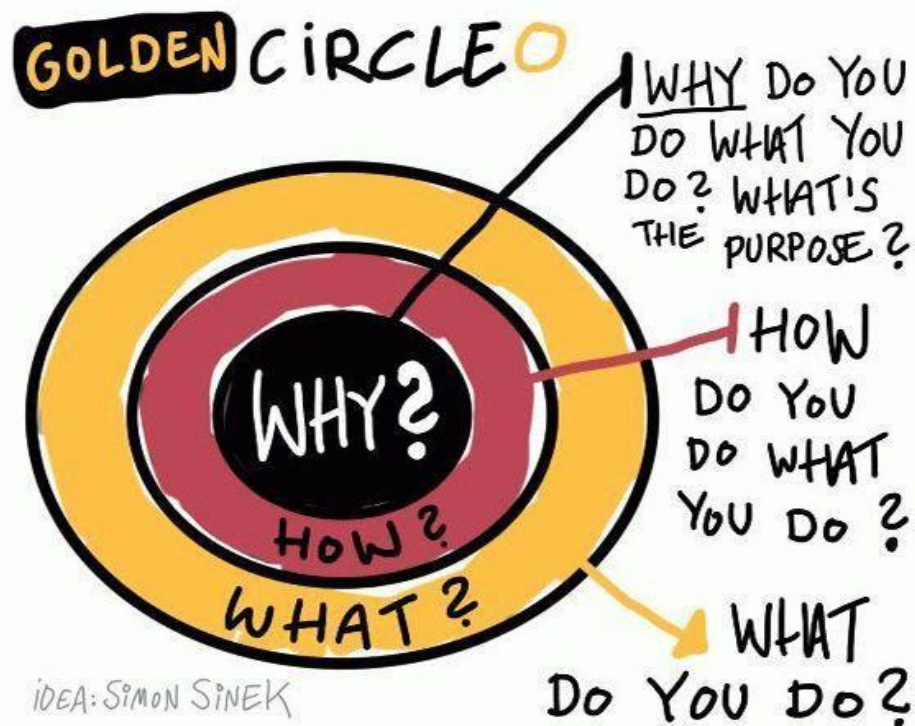
Previous Year Team:

Minu Aswanth	9976448668
Mohith Kumar	9003120598
Sasank Sriram	9940116581
Ram Ananth	9841591445

- **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 in your own words about this in the context of Shaastra.

Rules and Regulations:

1. It is recommended for everyone to solve every question.
Only use Linux environment such as Ubuntu.

2. Hints/Guides

- Familiarize yourself with AngularJS at <https://www.codeschool.com/courses/shaping-up-with-angular-js>

Resources (Learn CSS, html, Javascript with these):

- w3schools
- CodeSchool
- CodeAcademy

Q1 - Answer the following questions briefly

1. What do you think are the drawbacks of Shaastra 2017 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. Do you think a game is possible Inside the Website? If so suggest Proper methods for that (Do Proper Ground Work before answering this question)
4. Your credentials and references (if any?)

Q2 - Solve the following questions

For next two questions, need to know basics of HTML and CSS which can be learnt from the given links. You don't need to know more than the material provided in the links.

1) HTML and CSS:

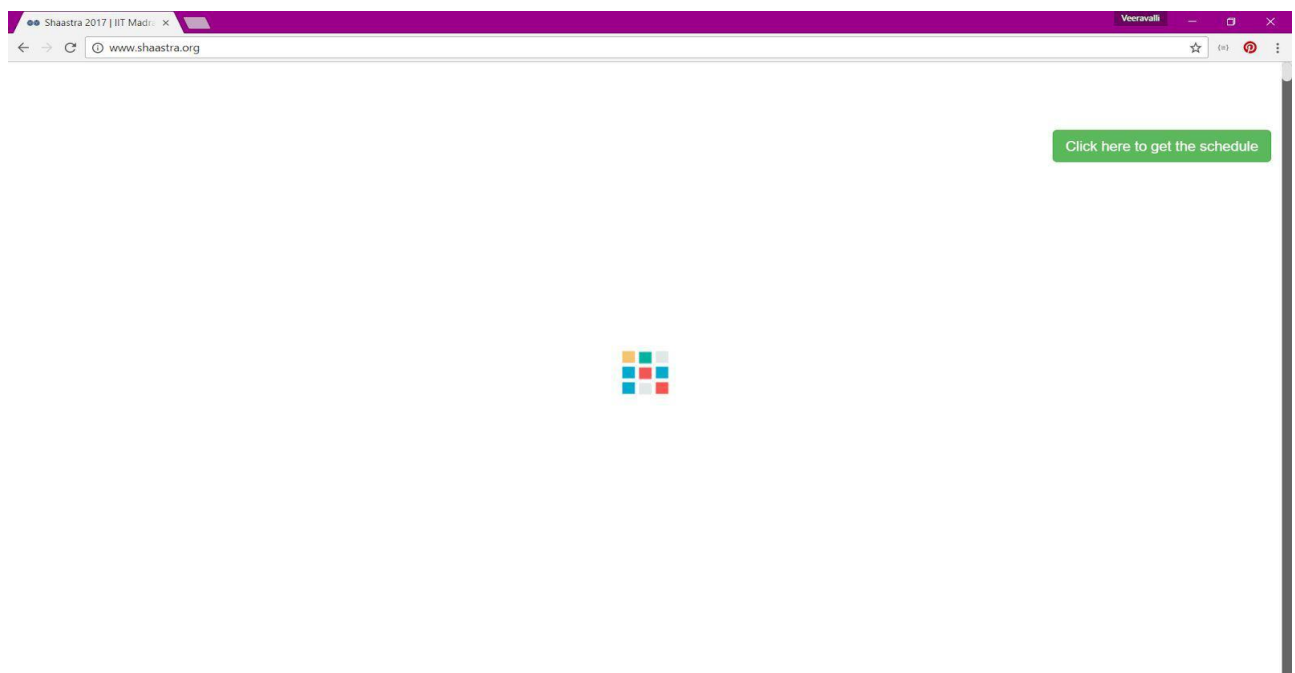
- Go to the [Shaastra 2017](http://www.shaastra.org) site and replicate the complete navigation bar with same CSS and Styling.



2) ANIMATION:

The loading screen of our Shaastra site last year was Rubik's cube. Replicate that animation to a closer extent possible.

The Size of the Rubix Cube that you animate doesn't matter , it need not be the exact same size but the motion of the cube should be similar.



3) Javascript:

Given an array of three strings. Example, var x = ['abc', 'def', 'ghi'].
Your job is to show

each individual string for say a time of 3 seconds and make it fade away with the next string appearing endlessly. You need to show the data in a <div>...</div> (or) a ... using JavaScript.

Hint: You need to know about setInterval() function

4) Form Alerts:

Make a form for registration on a website using HTML, CSS and Javascript.

For registration incorporate the following fields (and all the checks should happen when a button is clicked) :

First Name

- o Should not be empty

Last Name

- o Should not be empty

Phone Number

- o Should have exactly 10 digits
- o Should have no alphabet or other special characters

Email

- o Should contain a “at-the-rate” (@) followed by a “dot” (.)
- o There should be at least one character followed by a at-the-rate followed by at least 1 more character followed by a dot followed by at least 2 characters

State(dropdown)

- o Only be able to choose one of these options
- o Bonus points to have a box such that while typing the dropbox will change with only relevant options

Password field 1

- o At least 6 characters

Password field 2

- o At least 6 characters
- o Same as Password field

If an error occurs:

- Make the input field red (the border red)

Show a line of text next to the field mentioning the error(s)
in that field If all fields are correct:

Change the button to be unclickable and show a green button saying
"Submitted successfully"

The form should look good and aesthetically pleasing.

- **Note 1** : Bonus points to do the validation using Javascript and JQuery.
- **Note 2** : Bonus points for doing this with CSS3 + HTML5 along with JQuery/javascript.
- **Note 3** : Bonus points for doing this with Bootstrap or PureCSS or other such frameworks.

PART-B:

- What is your Vision for Frontend Department?
- Do you have any Specific Templates that you want to have on the Shaastra Website. If So Explain how it will impact Shaastra Feel and also Convey the theme properly?
- **Responsiveness:** Noting that a considerable percentage (~33%) of website views are from mobiles/tablets, ideate on how to make the website mobile friendly and have the same user experience as the desktop version. Think on the lines of how can we make use of the extra features (eg : touch) mobiles/tablets have in addition to the desktop.
Or should we have a separate website for mobiles?
Make a list of pros and cons of both implementations (separate website for mobile or making the desktop version mobile friendly).
- **Loading speeds:** The Shaastra website's loading speed is not that great in general. What changes can be done to the code

structure/style to improve loading speed? Research and come up with ideas and different techniques which can be adopted.

- What is the timeline you are planning for the Frontend? Mention the dates in a Google Calendar 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:

- In the Question 1) mentioned ,have a listener on every name of the bar and when anyone clicks ,it should go to a new page and display the name of the Tab that was clicked.

Try to solve the questions as much as possible, partially solved questions will also be considered for evaluation.