

Saarang 2013 - Web Operations

There are 2 questions. Solve either of these questions. If you are done with one, you can solve the other question too.

Each question is divided into sub-sections. Start from the first one and try to complete as many as possible.

Please mail your source code to saketh.bsv@gmail.com and mrdiv.rjgpl@gmail.com by **Saturday** 12:00 hrs with subject as **WebOps Application – 2013**

Send all the files in a single zip file – **RollNo_Name.zip**.

Host your solution on your comp using LAMP or WAMP.

Question 1

Finance Portal

Finance Portal

Make a Finance Portal with the following functionalities. You can do this using PHP (easier to start off) or in Django.

1. Create a registration page for new users. Create a login page, with the facility for registered users to enter username and password, and login.
2. There must exist a core/admin login also with special privileges as mentioned later.

Finance Portal

3. Users must be able to request a specific amount from the Finance core. While making a transaction/request, take all possible details about the transaction like purpose etc.
4. They must have an option to edit or delete a request from a list of previous requests.
5. The core when logged in with his credentials should have the facility to see all the requests from various users.

Finance Portal

6. Build a search system on top of this so that the core can search for an old transaction.
7. Create a link for the core to generate a report of all the transactions (sorted by date, amount, user etc).

Question 2

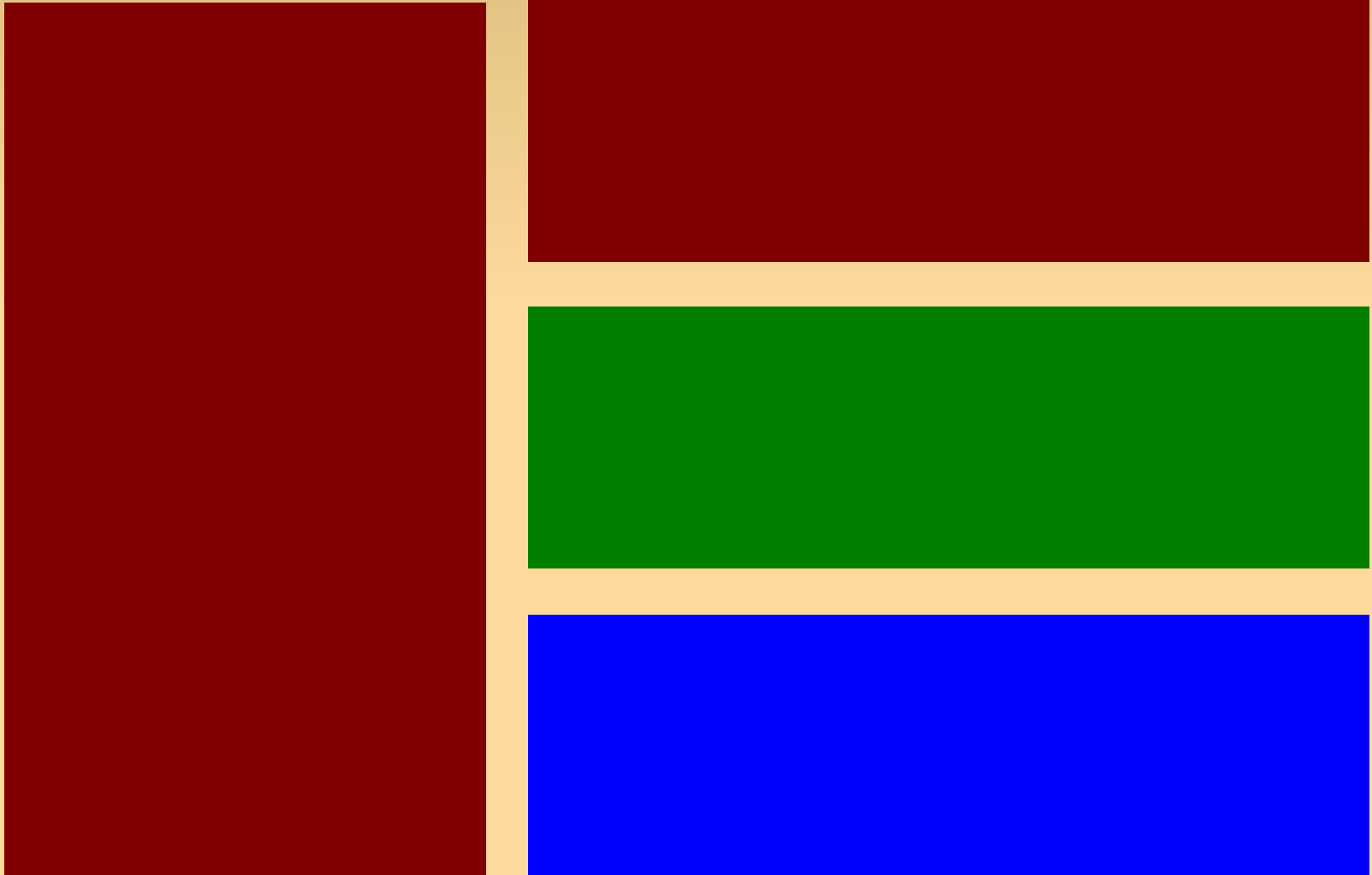
Playing with boxes

Use only CSS, Javascript and `<div>` and `<button>` tags to solve this problem.

DO NOT use Javascript libraries or `<table>` tags to position the boxes.

Playing with boxes

I. Create the following template using CSS and div tags only



Playing with boxes

2. Add the following buttons inside the boxes

The image displays four distinct boxes, each with a unique color and a set of interactive buttons:

- Red Box (Left):** A large vertical rectangle. At the top left, there are three small white buttons labeled 'R' (red), 'G' (green), and 'B' (blue). At the bottom left, there are two white buttons: a left-pointing arrow and a right-pointing arrow.
- Red Box (Top Right):** A horizontal rectangle. On the right side, there are two white buttons: an up-pointing arrow and a down-pointing arrow.
- Green Box (Middle Right):** A horizontal rectangle. On the right side, there are two white buttons: an up-pointing arrow and a down-pointing arrow.
- Blue Box (Bottom Right):** A horizontal rectangle. On the right side, there are two white buttons: an up-pointing arrow and a down-pointing arrow.

Playing with boxes

3. On clicking the R,G or B buttons, the color of the corresponding box should change to Red, Blue or Green respectively.
4. On clicking the 'up' or 'down' button in the boxes on the right, the corresponding box should swap positions with the box above or below it. Clicking the 'up' button on the topmost box or the 'down' button on the bottommost box should NOT result in any action.

Playing with boxes

6. On clicking the 'left' or 'right' button in the leftmost box, the box should swap positions with the other boxes. THIS MUST BE ANIMATED i.e THEY MUST INTERCHANGE POSITIONS IN SLOW MOTION.

Clicking the 'left' button when the box is on the leftmost side or the 'right' button when the box is on the rightmost side should NOT result in any action.

Bonuses (We do not expect you to do these, but if done you score extra)

1. Make a basic facebook app using graph API. *

Src: <https://developers.facebook.com/docs/opengraph/samples/>

2. Make a basic HTML5 canvas animation/game. *

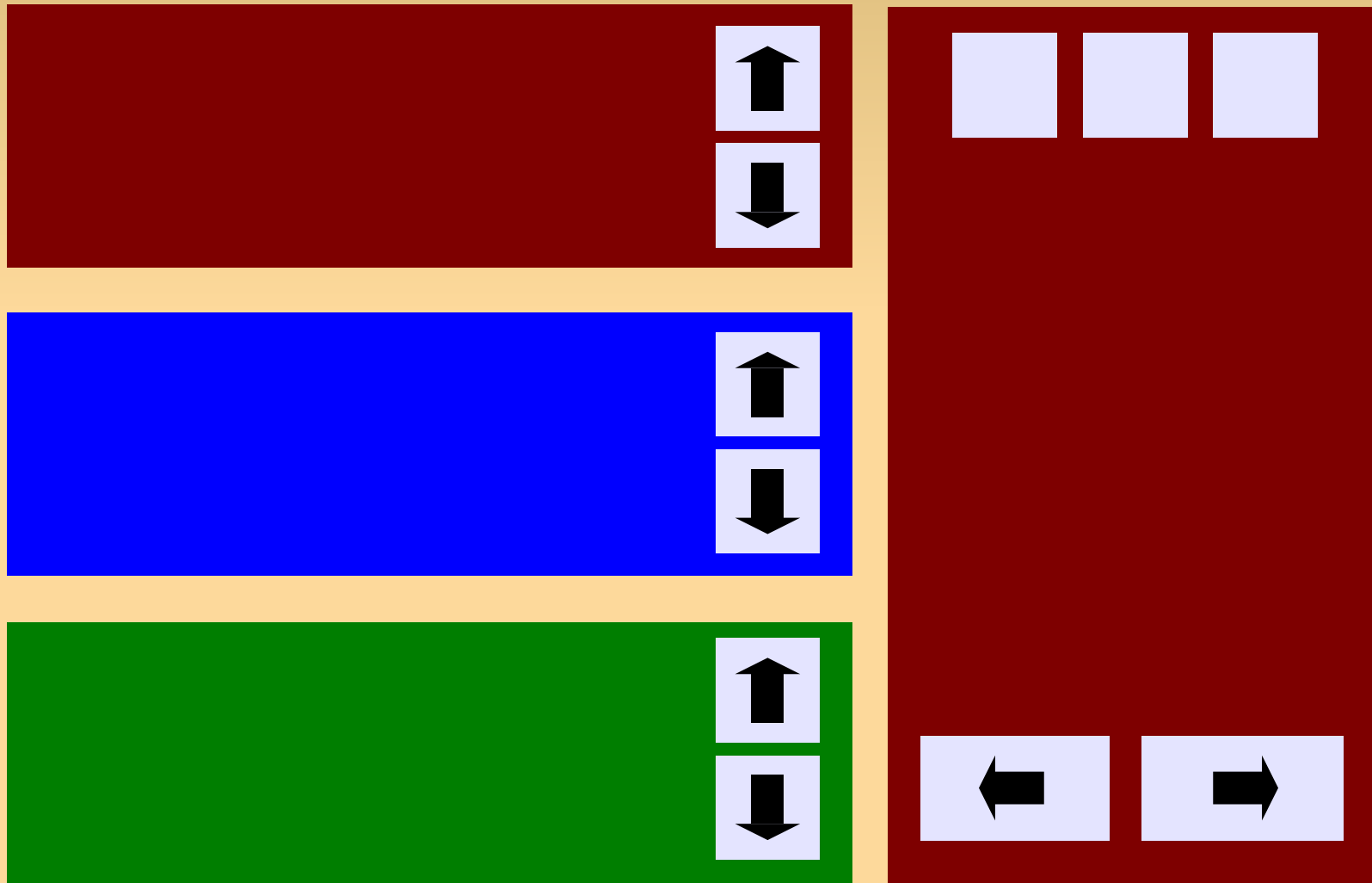
Tutorial: https://developer.mozilla.org/en/canvas_tutorial

3. Create a flash App/animation. *

4. Use js libraries like impress.js, paper.js, three.js to make a flashy animation. *

*You are pretty much in if u make a saarang related one.

Left box swapped position on clicking the 'right' button



Mobile Operations Question

- Start from the first one and try to finish as much as possible.
- Zip all the deliverables and mail it to saketh.bsv@gmail.com and mrdv.rjgpl@gmail.com with "MobOps Application 2013" as the subject.
- Filename format is "firstName_lastName_rollNumber.zip".
- Deadline for submission for MobOps only is **Saturday, 23:59hrs..**
- Contact us if you have any queries.

MOBILE OPERATIONS PROBLEM STATEMENT:

Develop an android application that can function as an event catalogue.

- 1) On launch, the app should show a list of 5 events.
- 2) On clicking a particular event, the application should show its corresponding writeup.
- 3) Add option to view the coordinators' contact details.
- 3) Add option to place a call to the coordinator from within the app.
- 4) Create a list of favourite events, and add options to add/remove events from the list.

All data like event list, writeups, coordinator details and favourites should be stored in databases.

Deliverables: Source code (zipped), Android application package

Brownie points for clean and intuitive UI.

Thank You

Contacts

Saketh BSV
saketh.bsv@gmail.com
9840346380

Mardava Gubbi
mrdiv.rjgpl@gmail.com
9789082953