Outlab 7 : LaTeX, JavaScript

Please refer to the general instructions and submission guidelines at the end of this document before submitting.

P1. LaTeX [45 points]

In this problem you might require some external packages so it is better to use Sharelatex or Overleaf.

The task is to replicate the following pdf using Latex and make sure you try to replicate all the styles, sizes, fonts, etc. used in the document provided. The contents of the pdf are in such a way so as to help you accomplish the task. The images for this task can be obtained from this link.

You can change the text, for example, The name in the title of the document, the names present anywhere else in the document, and/or anything which you would like to replace. But the format of the document, including the Table of Contents, sections, subsections, bold/italic/emphasised fonts, and so on should be replicated as it is.

See the naming conventions of the tex and pdf files in submission format.

(**Note** : This is the same as the task 2 in the inlab assignment.)
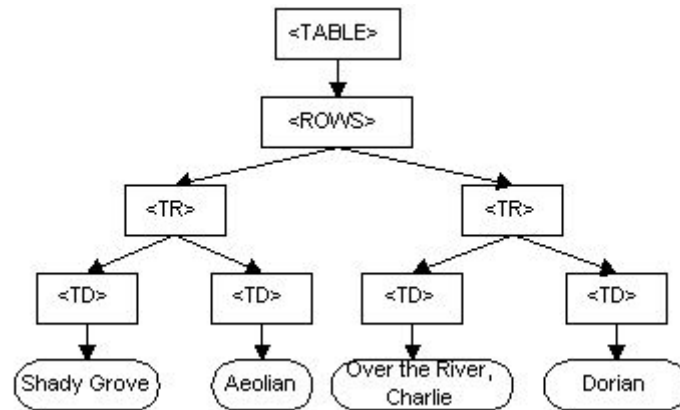
P2. Beamer [30 points]

In this problem you must use the document class beamer. To learn about beamer class this link can be a good starting point.

The task is to replicate the following beamer pdf using Latex and make sure you try to replicate all the styles, sizes, fonts, etc. used in the document provided. The images for this task can be obtained from this link.

See the naming conventions of the tex and pdf files in submission format.

P3. JQuery and DOM manipulation [25 points]

The *Document Object Model(DOM)* is an API which structures markup web pages into objects which form the nodes of a tree.

JQuery is a JavaScript library which manipulates a webpage using the above objects. This eliminates a lot of boilerplate code in JavaScript.

Your job is to perform the following tasks on the page *index.html* using JQuery.

1. Change the background color of the first sublist/ul (under 'Text') to red.
2. Give all items in that list blue font[*].
3. Append the text " in the list!" to each element in the first ordered list.
4. Select the whole page and change its background color to #eee.
5. Set up an event handler to show an alert whenever any link (element with the "a" tags) is clicked.

Place your JQuery code in the file problem3.js. You can test your code using the developers' console of any modern browser, preferably chrome or firefox.

[*]The "a" tabs have been removed in the modified index.html file so that you don't get confused.

General Instructions
- Make sure you know what you write, you might be asked to explain your code at a later point in time
- Grading may be done automatically, so please make sure you stick to naming conventions
- The deadline for this lab is **Sunday, 2nd September, 23:55.**

Submission Instructions

After creating your directory, package it into a tarball
<rollno1>-<rollno2>-<rollno3>-outlab7.tar.gz in ascending order. Submit once only per team from the moodle account of smallest roll number.
The directory structure should be as follows (nothing more nothing less)

```
<rollno1>-<rollno2>-<rollno3>-outlab7
├── P1
│   ├── problem1.tex
│   └── problem1.pdf
├── P2
│   ├── problem2.tex
│   └── problem2.pdf
└── P3
    ├── problem3.js
    └── index.html(provided to you)
```