

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]

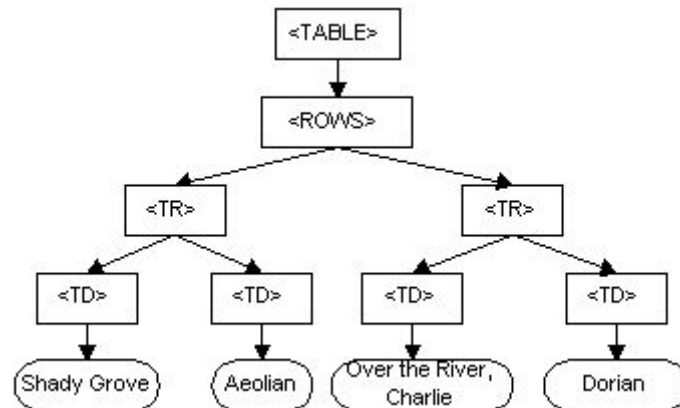
In this problem you must use the document class beamer. To learn about beamer class this [link](#) can be a good starting point.

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 (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 every link that has a “name” attribute, and change its background color to #eee.
5. Set up an event handler to show an alert whenever the “Some link” link 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.

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)
```