Software Systems Lab: Outlab
LaTeX

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Contents

0.1 Abstract

This report is made on Overleaf.
It is for Outlab 4 of CS251 lab.
It has various sections and subsections on

1. Introduction,
2. Background of the outlab
3. Images
4. Algorithms

0.2 Introduction

0.2.1 About

- Made in Latex
- Made on Overleaf.com
- Done for Outlab 4
- Contains various types of features such as
  - table of contents,
  - itemization,
  - images with caption,
  - table with caption,
  - minipage and
  - bibliography

0.2.2 Contents

1. Images
2. Table
3. Itemizations
4. Minipage
5. Bibliography

0.3 Background

LaTeXis widely used in academia for communication and publication of scientific documents in many fields, including mathematics, physics, economics, linguistics, quantitative psychology, philosophy, and political science. It also has a prominent role in the preparation and publication of books and articles that contain complex multilingual materials, such as Sanskrit and Greek. LaTeXuses the TEX typesetting program for formatting its output, and is itself written in TEX macro language

(This is how the minipage feature works)

0.4 Algorithm

```
   Input  : A graph and starting root vertex of the Graph
   Output: All vertices reachable from root are labeled as explored
 1 for each node n in Graph: do
 2 |  n.distance = INFINITY
 3 end
 4  Q.enqueue(root)
 5 while Q is not empty: do
 6 |  for each node n that is ad jacent to current: do
 7 |  |  if n.distance == INFINITY then
 8 |  |  |  n.distance = current.distance + 1 n.parent = current
 9 |  |  end
10 |  end
11 end
```

Algorithm 1: Breadth First Search Algo

0.5 Code

Listing 1: Hello World! in C++

1. include $< iostream.h >$
2.
3. $int\ main()\{$
   (a) $std :: cout << "Hello\ World";$
   (b) std::cin.get();
   (c) return 0;
4. }

A	B	Answer
0	0	0
0	1	1
1	0	1
1	1	1

Table 1: OR Gate

0.6 Tables

0.7 References

Here are the references of the sites which I want to cite [2] and [1]

Bibliography

[1] Federico Garcia. Latex and the different bibliography styles. *The PracTEX Journal*, 2:2007–2, 2007.

[2] S Parthasarathy. Demystifying latex bibliographies. *The PracTEX Journal*, 2, 2007.