## Design and Implementation of Distributed Application: Project Report

Wallace Garbim Instituto Superior Tecnico Miguel Crespo Instituto Superior Tecnico Florian Ehrenstorfer Instituto Superior Tecnico fehrenstorfer@gmail.com

## **Abstract**

In this paper we present a simplified function-as-aservice cloud platform, which enables the distributed execution of a chain of operators on a shared storage. The system consists of one scheduler and multiple worker and storage nodes. Workload is balanced equally between workers through the scheduler. Data consistency and fault tolerance are guaranteed by the storage nodes. We present the problem and motivation first, then describe our solution in detail, and evaluate it at last in this paper.

- 1. Introduction
- 2. Problem
- 3. Solution
- 4. Evaluation
- 5. Conclusion