

## Plan for the Master Project

### **1. Core (Antidote Client, Docker, MapDB)**

### **2. GUI**

### **3. YCSB**

### **4. Results Visualization**

### **5. Benchmark Configurations for Antidote**

## Core Tasks

### **1. Finish implementation of the basic Docker Interface**

-> Kevin Bartik

### **2. Finish implementation of the basic Antidote Client**

-> Alka Scaria

### **3. Ensure that MapDB is working correctly when using concurrency**

-> Kevin Bartik

### **4. Implement the management of Dockerfiles and Images so that multiple branches/commits of the Antidote database can be benchmarked**

-> Kevin Bartik

### **5. Implement the management of configuration files**

-> Alka Scaria

### **6. Add configuration implementation to the Antidote Client**

-> Alka Scaria

### **7. Integration of the YCSB interface**

-> Kevin Bartik, Alka Scaria

### **8. Feature Additions and Code Refactoring**

-> Kevin Bartik, Alka Scaria

### **9. Document the important functionality**

-> Kevin Bartik, Alka Scaria

## GUI Tasks

### **1. Finish implementation of the basic GUI.**

-> Kevin Bartik

### **2. Extend the GUI to support new functionality in Benchmarking**

-> Kevin Bartik

## YCSB Tasks

### **1. Create a Document that explains the YCSB Benchmark.**

-> Vishnu

### **2. Describe the Interface that must be implemented.**

-> Vishnu

### **3. Describe the configuration file that is used.**

-> Vishnu

### **4. Integrate the necessary features in the Core.**

-> All

### **5. Implement the interface for one datatype.**

-> Vishnu

### **6. Implement the interface for another datatype**

-> Vishnu

### **7. Implement the interface for most datatypes**

-> All

## Results Visualization Tasks

### **1. Research existing implementations for Results Visualization (Java)**

-> Maxime

### **2. Implement examples for evaluation**

-> Maxime

### **3. Write a document about how the data must be structured to be visualized**

-> Maxime

### **4. Integrate the Visualization in the GUI**

-> Maxime, Kevin Bartik

## Benchmark Configurations for Antidote

### **1. Define possible Benchmark Configurations for Antidote (Data Centers, Nodes, Connections, ...)**

-> All

### **2. Implement additional Benchmark Configurations in YCSB and Core**

-> All

## Goals for the next 2 weeks

Core -> 1, 2, 3

GUI -> 1

YCSB -> 1, 2, 3

Results Visualization -> 1, 2

Goal for the next 3 weeks after that

Core -> 4, 5, 6, 7

YCSB -> 4, 5

Result Visualization -> 3, 4

Benchmark Configurations -> 1

Goal for the next 3 weeks after that

Core -> 8, 9

GUI -> 2

YCSB -> 6, 7

Benchmark Configurations -> 2

Goal for the rest of the time

Run Benchmarks

Make Code more extensible

Maybe write some automated Benchmarking and Tests