

Team 12

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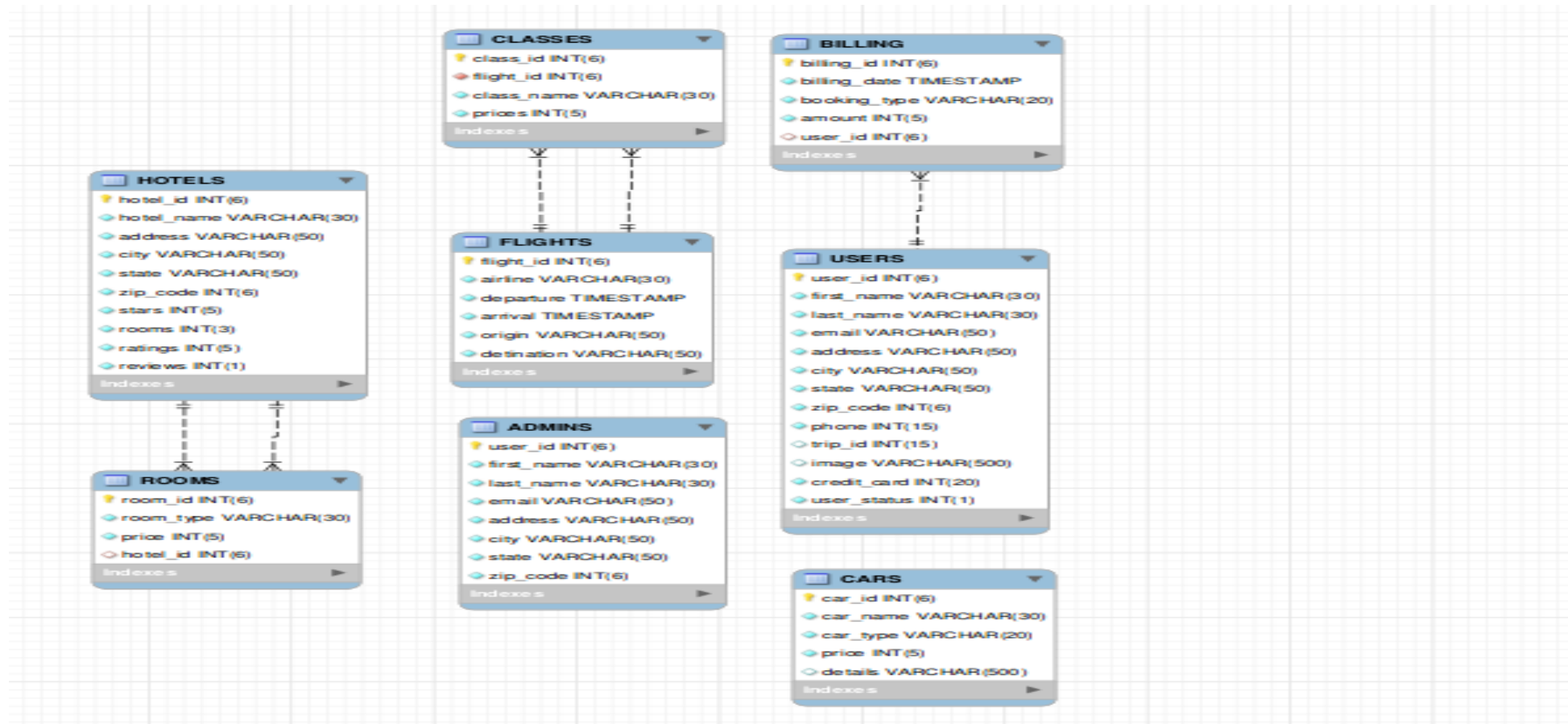
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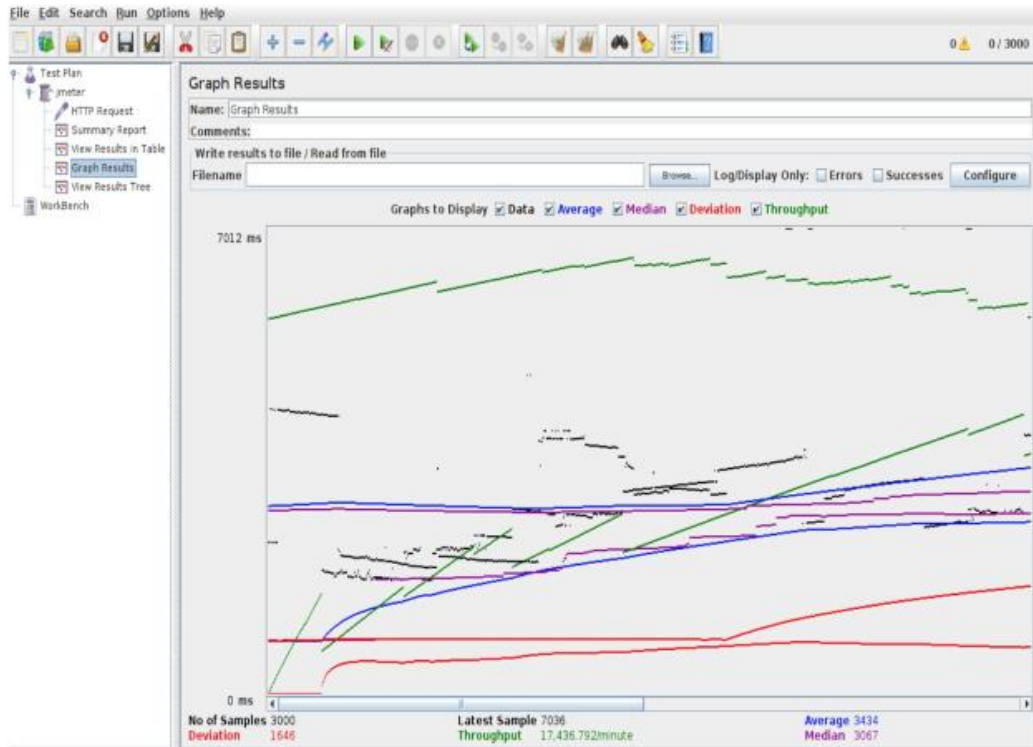
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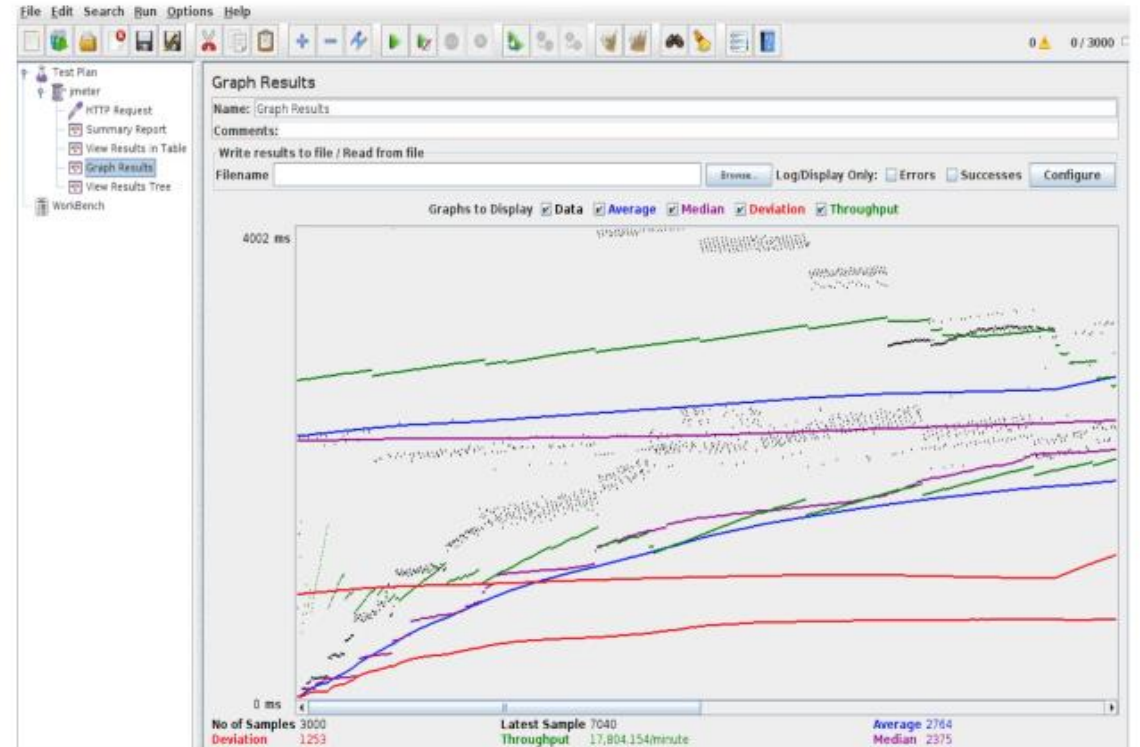
Database Schema Diagram



Performance Comparison Charts

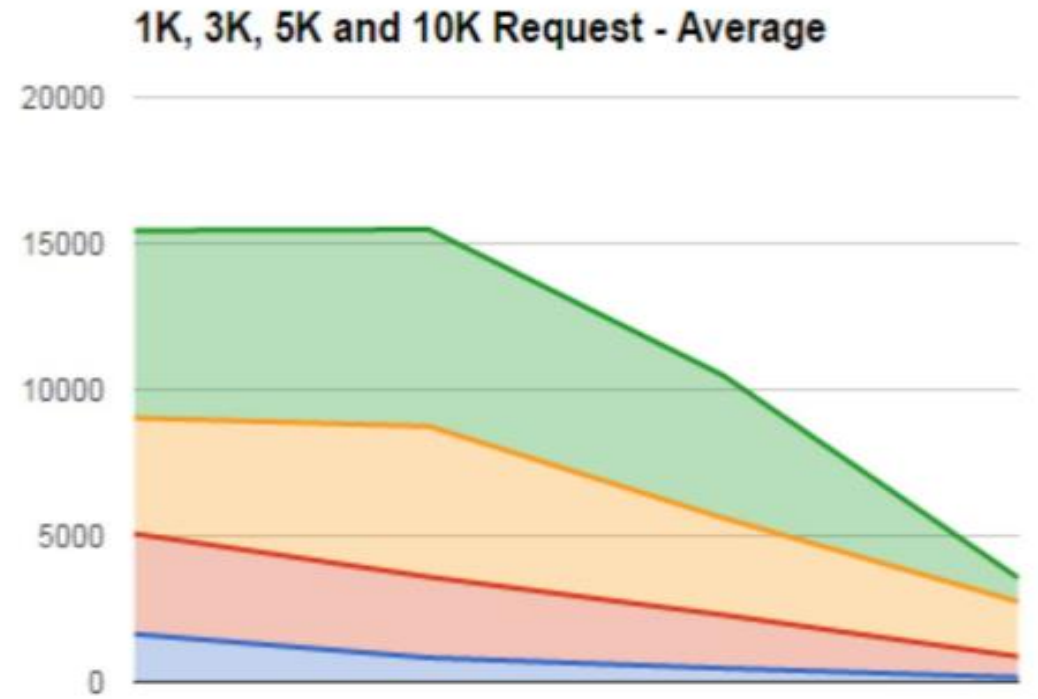
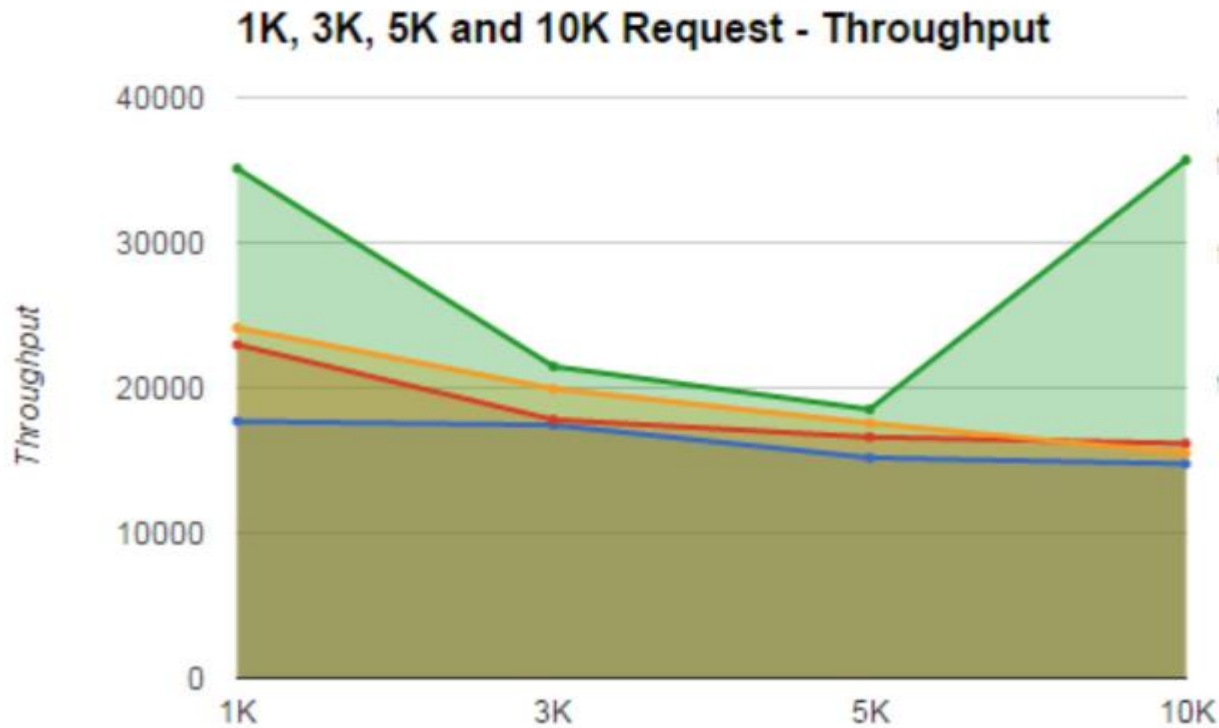


3000 requests with simple db connection



3000 requests with db connection pooling

Performance Comparison Charts



Performance graph with db connection pooling, Kafka and Redis usage.

User Trace Algorithm/Pseudo Code

ComponentDidMount

Start timer and store in totalTime

ComponentWillUnmount

create a new variable as node:-

```
var node= {  
  username: UserName  
  data: {  
    pageName: "HomePage",  
    timeSpent: ((new Date).getTime()-this.totalTime)/1000  
  },  
  next: null  
};
```

Now check if a linked list for that user exists:-

1. If it does, create a new linked list with head node as above
2. If it doesn't, traverse to the end of the list and append the new node on each page unmount