

# 2025 ITCS6190 Assignment1 Report

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Github: [https://github.com/kkim43/2025\\_ITCS6190\\_Assignment1](https://github.com/kkim43/2025_ITCS6190_Assignment1)

## Commands to build and run the stack

\$ make up

## Summary from stdout

```
app-1 | === Summary ===
app-1 | {
app-1 |   "total_trips": 6,
app-1 |   "avg_fare_by_city": [
app-1 |     {
app-1 |       "city": "New York",
app-1 |       "avg_fare": 19.0
app-1 |     },
app-1 |     {
app-1 |       "city": "San Francisco",
app-1 |       "avg_fare": 20.25
app-1 |     },
app-1 |     {
app-1 |       "city": "Charlotte",
app-1 |       "avg_fare": 16.25
app-1 |     }
app-1 |   ],
app-1 |   "top_by_minutes": [
app-1 |     {
app-1 |       "city": "San Francisco",
app-1 |       "minutes": 28,
app-1 |       "fare": 29.3
app-1 |     },
app-1 |     {
app-1 |       "city": "New York",
app-1 |       "minutes": 26,
app-1 |       "fare": 27.1
app-1 |     },
app-1 |     {
app-1 |       "city": "Charlotte",
app-1 |       "minutes": 21,
app-1 |       "fare": 20.0
app-1 |     },
app-1 |     {
app-1 |       "city": "Charlotte",
app-1 |       "minutes": 12,
app-1 |       "fare": 12.5
app-1 |     },
app-1 |     {
app-1 |       "city": "San Francisco",
app-1 |       "minutes": 11,
app-1 |       "fare": 11.2
app-1 |     },
app-1 |     {
app-1 |       "city": "New York",
app-1 |       "minutes": 9,
app-1 |       "fare": 10.9
app-1 |     }
app-1 |   ]
app-1 | }
```

## Contents of summary.json

```
{
  "total_trips": 6,
  "avg_fare_by_city": [
    {
```

```

"city": "New York",
"avg_fare": 19.0
},
{
"city": "San Francisco",
"avg_fare": 20.25
},
{
"city": "Charlotte",
"avg_fare": 16.25
}
],
"top_by_minutes": [
{
"city": "San Francisco",
"minutes": 28,
"fare": 29.3
},
{
"city": "New York",
"minutes": 26,
"fare": 27.1
},
{
"city": "Charlotte",
"minutes": 21,
"fare": 20.0
},
{
"city": "Charlotte",
"minutes": 12,
"fare": 12.5
},
{
"city": "San Francisco",
"minutes": 11,
"fare": 11.2
},
{
"city": "New York",
"minutes": 9,
"fare": 10.9
}
]

```

## Reflection

Through this assignment, I learned how to use Docker Compose to run multiple containers together in a simple way. I also found it useful that important information can be separated using a .env file for security, and at the same time, managed with a .gitignore file to prevent accidentally committing it.