AWS RDS database

Backup

Database

Weather API

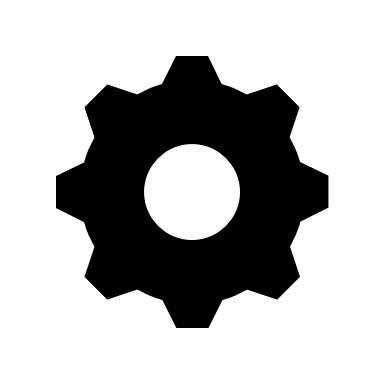
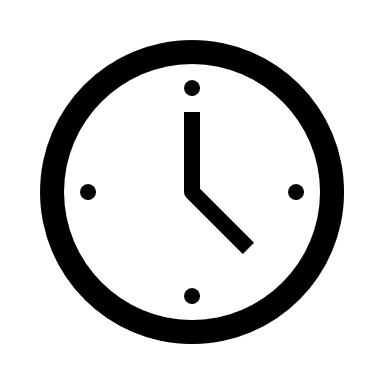
Data scraper + Manager

Driver

Code

Data Analyst script

JCDaux API



Flask

HTML, JS, JQ

**AWS EC2**



Google map API

Figure 1 System Block Diagram

**Input Features**

**[Date, Month, year, hour, minute]**

**Pool of weather parameter prediction models**

main\_temp main\_feels\_like main\_pressure main\_humidity main\_temp\_min main\_temp\_max wind\_speed wind\_deg

**Pool of bike and stand availability prediction models for each station**

Weather Prediction API

Bike station Prediction API

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