

Helping the bicycle choose the right spot

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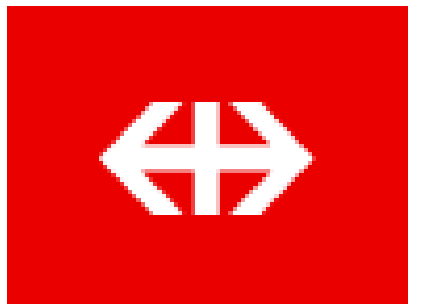
What's the issue...?

The Situation

- Low bicycle capacity
- Cheap spot reservation

The Problem Definition

- Reservation and Weather data
- Binary Classification Problem
- Reserved spots / Capacity \rightarrow Availability



...and how to resolve it?

Machine Learning

- Logistic Regression
- What makes people go for a ride?
- Threshold of filled: $>50\%$
- High accuracy ($>95\%$)
- System for checking on real-time data



Enhancing User Experience

Implemented

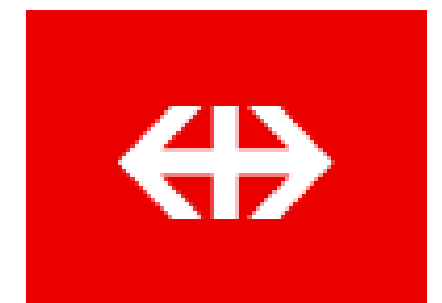
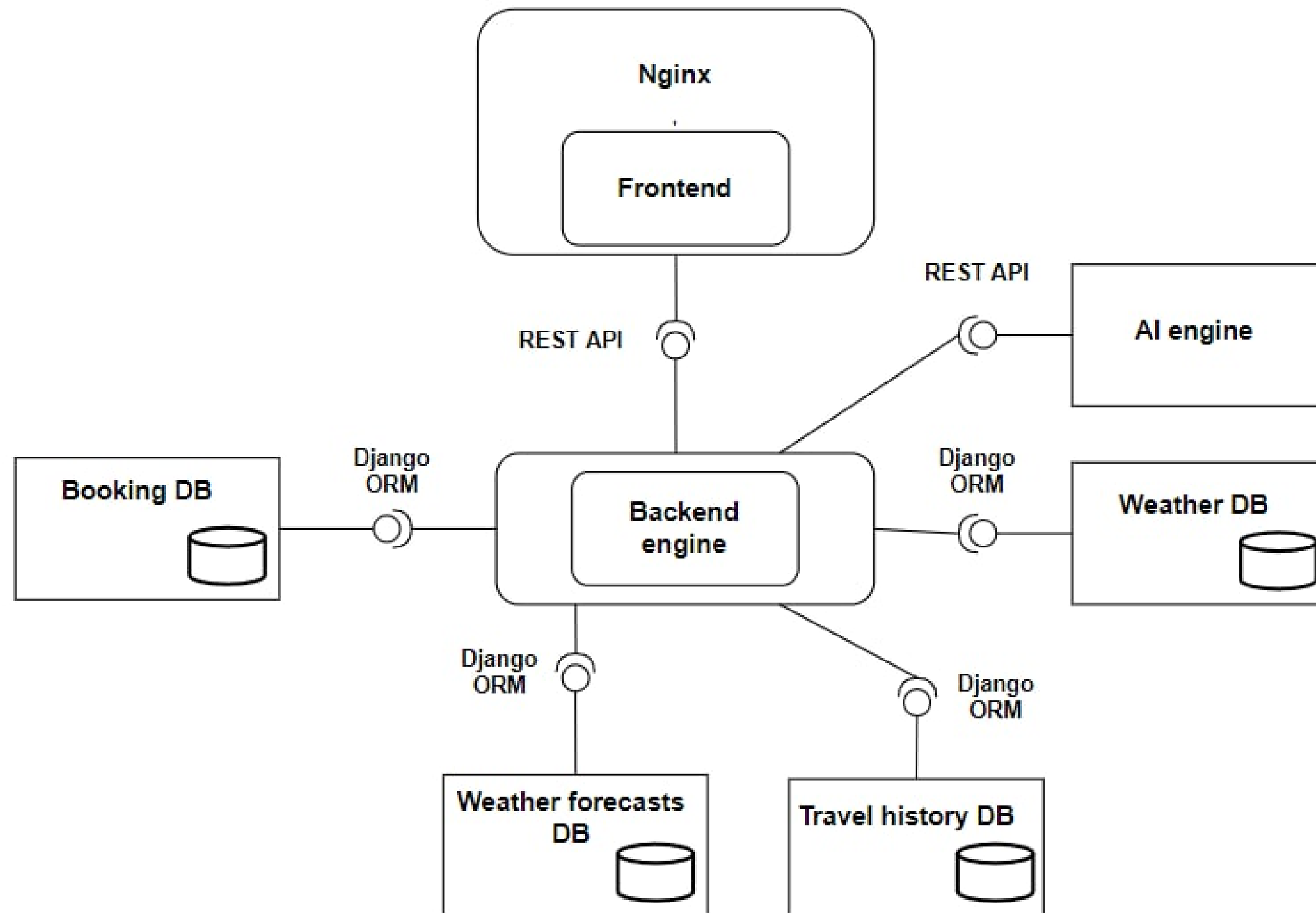
- Show interest in a certain route
- Explicitly show the number of places

Planned

- Show the weather at the stations
- Show the bicycle infrastructure near stations



The Architecture



The Prototype Presentation



What does the future hold?

Taking into account larger surroundings' weather

Individuals' perception of weather in advance

Important events drawing large amounts of people

Tying reservations likely made by the same individuals

Collection and use of customer search data

Leveraging the latest methods in protecting customer privacy

