

A web interface for open big data visualisation

Tom Davenport
1811930

–
Department
of Computing Science and Mathematics

introduction

- Motivation
- Design
- Progress

- Sample Images

motivation

- Prudential
- Open data – free
- How to capture and merge this data
- How to store the data
- Make useful representation of the data over a web interface

design



- Reviewed traditional DB systems- relational model
- Decided on a No-SQL approach: MongoDB with mongoLab
- Provides a good adaptable structure with fast ways of accessing data
- Built web application that interacts with database using Python, HTML5 and JavaScript

progress

- Upload and add data
- View data and query the database
- Some Google Maps functionality

- Further work:

- Further representation of the data
- Adding more data

Map View

Map View



Query

Query

Select Query- to search whole database select DB from drop down menu:
View All collection names:

Find one
Find() - please write query in box below:

query:...

Results from db:

```
[{"postcode": "test", "clusterreference": ""}]
```

New Data

New Data

Please enter data in JSON document structure below:

Collection Name:

JSON input:
type here...