



CIR Design and Implementation

Prepared by Group 2:

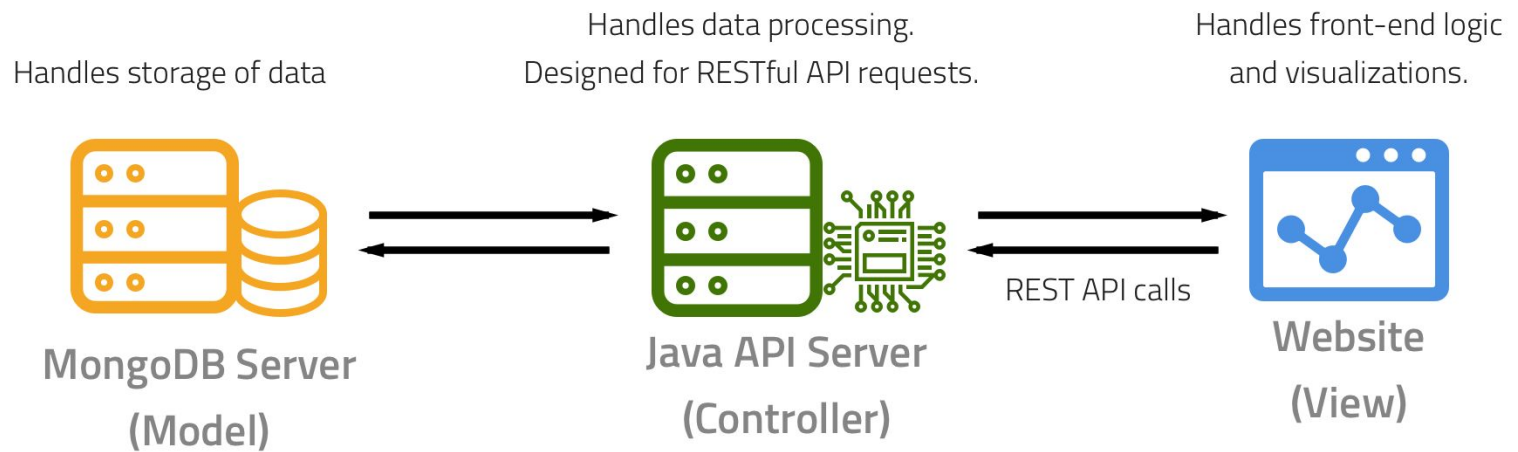
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System Design





API Specification

Sample API:

`http://localhost:8080/json/yeartransitions?conf=arXiv&years=2015$$2014
&year=1993&eyear=1995`



API Specification

Trend 1 - Transitions over
Years/Conferences

Root URL:

localhost:8080/json/yeartransitions?

localhost:8080/json/conftransitions?

Year Transitions

Conference Code: conf

Conference Year List: years

Start Year: syear

End Year: eyear

Conference Transitions

Conference Code: conf

Conference Year List: years

Conference List: conflist



API Specification

Trend 2 - Contemporaries over
Years/Conferences

Root URL:
localhost:8080/json/yearcontemporaries?
localhost:8080/json/confcontemporaries?

Year Contemporaries

Conference Year: year
Conference Code List: confs
Start Year: syear
End Year: eyear

Conference Contemporaries

Conference Year: year
Conference Code List: confs
Conference List: conflist



API Specification - Top X of Y

Query and Root URL	Parameters
Top Authors in a Conference in a Year localhost:8080/json/authors? Most Cited Authors in conference in a year localhost:8080/json/citedauthors? Top Citations in conference in a year localhost:8080/json/citations?	Conference Code: conf Year: year Top (num of results): top
Top Authors in Conference across all years localhost:8080/json/authors? Most Cited Authors in conference across all years localhost:8080/json/citedauthors? Top Citations in a conference across all years localhost:8080/json/citations?	Conference Code: conf Top (num of results): top



API Specification - Top X of Y

Query and Root URL	Parameters
Top Authors in a year localhost:8080/json/authors? Most Cited Authors in a year localhost:8080/json/citedauthors? Top Citations in a year localhost:8080/json/citations?	Year: year Top (num of results): top
Top Citations by an author localhost:8080/json/authors/citations?	Author: author Top (num of results): top



API Specification

Trend 4 - Compare Citations between 2 Base Papers localhost:8080/json/networks?	First Paper Title: paper1 Second Paper Title: paper2
Trend 5 - Most frequently used words in a conference localhost:8080/json/keywords?	Conference Code: conf Conference Year: year