Final Takeaway



Xavier Morera
PASSIONATE ABOUT TEACHING

@xmorera www.xaviermorera.com



Final Takeaway



Search

Old problem, resolved in many ways

Information retrieval

Search usually taken for granted

- Until it is not

Search engines and options

Apache Solr and SolrNet

- Don't reinvent the wheel

Implement search in .NET

Search is hard and few know how to do it

And now you are part of this search club

Starts with a User's Needs



User's need

Needs to be solved

"Find a course on Git using a GUI"

Search engine should return what you need

Problem with/of search

- AND, OR, LIKE, -ing



Solr Search Server



Download, unzip, run

- Java as prerequisite

Define your documents

Schema or Schemaless

Schema API

SolrCloud for bigger needs

- Apache Zookeeper



SolrNet



Makes working with Solr easy

Familiar for .NET developers

Get, build and hopefully contribute

Sample app

Connect

- ServiceLocator, CastleWindsor, Ninject, AutoFac

Map to schema

Fiddler is your friend



Indexing



Indexed documents required for search

Multiple types of content

- Documents
- Binary files

Solr → SolrNet

- Add() → /update
- Extract() → /extract



Querying



Whole point of search

Request for information

Database vs. search engine

Solrconfig.xml

Query, phrase queries, proximity, filter queries, range queries, sorting & paging

Get only the Fields that you need



Relevancy



Improving relevancy: harder than you think

Second page not a frequently visited page

Precision vs. recall

Look at the big picture

Multiple ways to improve relevancy

 Query fields, boost, boost queries, boost functions, stemming, lemmatization, synonyms, spell check, phonetic search and multilingual search



Better Results



Features that help the search experience

Faceting

Filtering

Stats

Highlighting

ExtraParams





Looking into the Future: Solr 6

Solr 5.5 at time of current release

- What we used in this course
- Plenty of 4.x and earlier out there

Solr 6 is here

- SQL on Solr
- Parallel SQL engine
- Graph capabilities

A Big Thank You!



Xavier Morera
PASSIONATE ABOUT TEACHING

@xmorera www.xaviermorera.com

