
PCG AUSTRALIA POSTCODE SEARCH APPLICATION MANUAL

JAVA, SPRING, MONGO DB, SOLR

By

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Chapter 1

Project Location

The project is divided into three parts:

- POST CODE LOADER: https://pcgdev01.pcgeu.local/svn/SVN_REPOS/AustraliaIndexerPostCodeLoader/trunk
- WEB APPLICATION: https://pcgdev01.pcgeu.local/svn/SVN_REPOS/AustraliaIndexerWeb/trunk
- SOLR INDEXER: https://pcgdev01.pcgeu.local/svn/SVN_REPOS/AustraliaIndexer/trunk

Chapter 2

Loading Mongo DB with Post Code Information

INPUTS

1. `australia_geocode.csv`
2. `bean.xml`
3. `australiaIndexer-0.0.1.jar`
4. A utility for extracting jars.

POPULATING MONGO DB

1. Copy `bean.xml` to `C:/config/Australia/bean.xml`.
2. Copy `australia_geocode.csv` to `C:/config/Australia/australia_geocode.csv`
3. Unzip the jar file `australiaIndexer-0.0.1.jar`
4. Move class files into a directory called 'classes'
5. Open `batchBuilderEnv.bat` in a text editor. Ensure that the classpath and directories exist on your machine. If not set them up.
6. In `batchBuilderEnv.bat` ensure that the directory set in `SET BATCHERDIR` is set to the home directory of Australia data.
7. Open `storeData.bat` in a text editor and ensure that the directories in the script exist.
8. Run `storeData.bat`.

Note that `log4j` config is hardcoded. You will simply need to add the `config.properties` file in `c:/config/australia`

Chapter 3

Indexing Data

3.1 Properties File

To index the data, you must:

1. The data must be a comma separated csv
2. The comma separated csv should be saved in
`c:/australiaIndexer/config/australiaData.csv` if running windows.
3. In `application.properties` ensure that the property `csv.location` is set to
`c:/australiaIndexer/config/australiaData.csv`.
4. `c:/australiaIndexer/config/australiaData.csv` is the default location that will be used if `application.properties` cannot be initialized.

5. `application.properties` should look like this:

```
csv.location = c:/australiaIndexer/config/australiaData.csv
smtp.host = Your smtp host
smtp.port = Your smtp port
smtp.email.from = admin@pcg
smtp.email.to = The recipient of the email
smtp.email.subject = The email subject
solr.core = The solr core
solr.host = The solr host
solr.port = The solr port
recordNumber = The beginning of the data row (not 0 based count)
```

Chapter 4

The Web Application

4.1 setting it up

SOLR

1. The Location of the SOLR INDEX is given as – `http://localhost:8983/solr/australiaCor`
This is set in the `bean.xml` file of the war file. Once the war file is deployed, you can replace `localhost` with the name of the server host.
2. Replace 8983 with the name of your solr port

MONGO DB

1. DB Name: `PCGAustralia`
2. Collection: `australiaData`

Chapter 5

SOLR and INDEXING

5.1 Setup

1. Go to solr installation directory. Note that solr'home i.e solr-home-directory will typically be in ...solrX.Y.Z/server/solr.
2. `solr start -p 8983`
3. **Create Core:** `solr create -c australiaCore`

5.2 Fields

1. `countId` – integer, stored
2. `eventId` – string, stored
3. `id` – string, indexed, stored, required
4. `eventName` – Textfield, analyzed, indexed, stored, required, omitNorms=false
5. `_text_` – Textfield, analyzed, indexed, stored, required, omitNorms=false, multiValued
6. `address` – String, stored, indexed
7. `description` – Textfield, analyzed, indexed stored, multiValued
8. `pc` – String, stored, indexed (To support faceting)
9. `state` – String, stored, indexed (To support faceting)
10. `locality` – String, stored, indexed (To support faceting)
11. `fullPC` – String, required, stored, indexed
12. `ageGroup` – String, stored, indexed, multiValued
13. `alliedHealth` – String, stored, indexed, multiValued

14. `consumables` – String, stored, indexed, multiValued
15. `coreSupports` – String, stored, indexed, multiValued
16. `disabilityType` – String, stored, indexed, multiValued
17. `interpreting` – String, stored, indexed, multiValued
18. `specialistModels` – String, stored, indexed, multiValued
19. `ndisRegistered` – String, stored, indexed, multiValued
20. `ndisRegisteredBool` – Boolean, stored
21. `starRating` – String, stored, indexed
22. `latitude` – String, stored, indexed
23. `longitude` – String, stored, indexed
24. `geoLocation` – String, stored, indexed
25. `dateOfIndex` – date, stored, indexed

Chapter 6

FIELD MAPPING

6.1 Age Group (**ar**)

- 1 = Adolescence (School Leaver)
- 2 = Adults
- 3 = Early Intervention (0-6)
- 4 = School Aged
- 5 = Seniors

6.2 Allied Health/Support Coordination (**ahth**)

- 1 = Assessment: Activities of Daily Living
- 2 = Assessment: Assistive Technology
- 3 = Assessment: Dietician
- 4 = Assessment: Driving
- 5 = Assessment: Home Modification
- 6 = Assessment: Vehicle Modification
- 7 = Chiropractor
- 8 = Continence Nurse
- 9 = Dietician
- 10 = Exercise Physiologist
- 11 = Multi-disciplinary
- 12 = Nursing
- 13 = Occupational Therapy
- 14 = Physiotherapy
- 15 = Podiatry
- 16 = Psychologist
- 17 = Speech Pathology
- 18 = Support Coordination

6.3 Consumables/Assistive Tech (**cons**)

- 1 = Assistive Technology Technician
- 2 = Caregiver Personal Protective Equipment (PPE)
- 3 = Chairs
- 4 = Communication Aids/ Technology
- 5 = Continence Items (bowel/bladder/bedding)
- 6 = Dietary Equipment / PEG
- 7 = Hoists / Beds
- 8 = Home Modification Technician
- 9 = Household Mod Items (rails, ramps, etc)
- 10 = Mobility Aids Wheelchairs
- 11 = Orthotics / Splints
- 12 = Sensory Items (eg. Weighted blanket)
- 13 = Specialised Clothing
- 14 = Vehicle Items
- 15 = Vehicle Modification Technician

6.4 Specialist Models (**spmd**)

- 1 = Allied Behavioural Intervention
- 2 = Early Start Denver Model

6.5 NDIS Registered (**ndis**)

- 1 = true
- 2 = false

6.6 Core Supports (**cosp**)

- 1 = Animals / Riding for the Disabled
- 2 = Art / Craft / Means Shed
- 3 = Assistance with Daily Life
- 4 = Assistance with Social Community Participation 5 = Authorised to Administer Medication
- 6 = Bathing
- 7 = Camps
- 8 = Cleaning
- 9 = Computers
- 10 = Consumables
- 11 = Cooking

12 = Coordination of Supports
13 = Day Programs
14 = Finding and Keeping a Job
15 = Fishing / Boating
16 = Gardening and Lawn Care
17 = Home Health / Nursing Qualified
18 = Improved Daily Living Skills
19 = Improved Health and Wellbeing
20 = Improved Learning
21 = Improved Life Choices
22 = Improved Living Arrangements
23 = Improved Relationships
24 = Increased Social and Community Participation
25 = Independent Life Skills
26 = Meal Preparation
27 = Music / Drama / Theatre
28 = Pre Employment Preparation
29 = Respite
30 = Service Clubs
31 = Social Group / Library
32 = Sport / Gym / Yoga
33 = Swimming / Surfing
34 = Therapy-General
35 = Therapy-Home Mods
36 = Therapy-
37 = Therapy-Physiotherapist
38 = Therapy-Psychologist
39 = Therapy-Speech and language (SLT)
40 = Therapy-Vehicle Mods
41 = Therapy-Wheelchair
42 = Training with Hoists
43 = Transition to Employment
44 = Transport
45 = Volunteering

6.7 Interpreting(intp)

1 = Deaf
2 = Deaf / Blind

6.8 Disability Type(**ditp**)

- 1 = Autism Spectrum Disorders /FASD
- 2 = Brain Injury
- 3 = Cerebral Palsy
- 4 = Challenging Behaviours
- 5 = Feeding / Swallowing / Cleft Palate
- 6 = Hearing Impairment
- 7 = Intellectual Disability / Developmental Delay
- 8 = Orthopaedic / Trauma
- 9 = Other 10 = Progressive Disorders (MND/MS/Parkinsons)
- 11 = Psychological / Mental Health
- 12 = Spinal Cord Injury
- 13 = Vision

6.9 State Provided In(**spi**)

- 1 = ACT
- 2 = NSW
- 3 = NT
- 4 = QLD
- 5 = SA
- 6 = TAS
- 7 = VIC
- 8 = WA

Chapter 7

Search Queries

7.1 Generic Search

`ss` – The query search string entered by the user.

`ar` – Age Group e.g 1_2_3_4_5

`cons` – Consumables/Assistive Tech (not required). Ensure that conditions are ‘underscore’ separated e.g 1_2_3_4_5_6_7_8_9_10_11_12_13_14_15.

`cosp` – Core Supports (not required) e.g. 1_2_3_4_5_6_7_8_9_10_11_12_13_14_15_16_17_18_19_20 ...45

`intp` – Interpreting (not required) e.g. 1_2.

`ditp` – Disability Type (not Required) e.g. 1_2_3_4_5_6_7_8_9_10_11_12_13.

`ra` – Star Rating (not required) e.g 1 ... 1-5

`spi` – stateProvidedIn (not required)

`pc` – Postcode (not required)

`lo` – locality (not required)

`st` – State (not required)

`radius` – Radius (not required)

`pp` – pagination

`spmd` – Specialist Models 1_2

`ndis` – 1 or 2

URL EXAMPLE –

```
/generic?ss=wheel chair&ar=1_2&ditp=1_3_5&cosp=1_5_4&cons=3_4&ahth=2_3&ra=3&pc=2263&lo=Erina&st=NSW&radius=4999&pp=1
```

Chapter 8

Unit Test

8.1 Indexer

class: com.pcg.australia.dataIndex.TestIndexerRunnable

1. Test 1 - Test Solr connection testSolr()
2. Test 2 - Test Query and solr response using test instance,
event ID = D120A10F-2736-415F-99AC-A817018A17D6. testIndex()