# Views

* Homepage
  + Search input shows all school names via autocomplete search, select one and that school’s page is displayed
  + Displays links to a directory pages (school district listings or city listings)
* Directory Page
  + Lists all School Districts, OR;
  + Lists all school cities
* Directory Results Page
  + Lists all schools in selected city
* School/School District Page
  + Displays available School District reports (with links to data), AND;
    - Displays school district data/information (see sd model), OR;
  + Displays available school level reports (with links to data)
    - Displays school data (see school model)
* Chart Page (aka “Report Page”)
  + Displays selected chart and templated copy pertaining to data
  + Provides a way to view other reports within the same context (selected schoo/district)

# Controllers

* School
  + index()
    - returns the homepage view with the search bar
  + getReports(school)
    - returns array of reports available to specified school
  + getAllSchoolCities()
    - returns array containing mincode, city, school name
  + getAllSchoolsByCity(city)
    - return schools within a certain city
  + getSchool(mincode)
    - returns array of general school information keyed by data name (ie. ‘principal\_first\_name’ => ‘robert’, ‘contact\_email’ => ‘s@sd.com’ …)
  + getSchoolJSON(mincode)
    - returns JSON object keyed by mincode:school\_name
* SchoolDistrict
  + get SchoolDistrict(sd)
    - returns array of general school district information
  + getAllSchoolDistricts()
    - returns school districts sorted by sd number or name

# Models

* School
  + MINCODE (key, string, unique ID of school)
  + SD (string, the school’s school district, numeric (int) but always THREE digits with zero padding on the left so this is actually a string)
  + GEO\_SD
  + SCHOOL\_NAME (string, the human readable name of the school, not unique)
  + SCHOOL\_EDUCATION\_LEVEL
  + ELEMENTARY\_DIVISION\_CNT
  + Enrol flags (help determine grade range for a school, flags, bool)
    - KH\_ENROL\_FLAG
    - KF\_ENROL\_FLAG
    - GR01\_ENROL\_FLAG (grade 1)
    - GR02\_ENROL\_FLAG (grade 2)
    - GR03\_ENROL\_FLAG (grade 3)
    - GR04\_ENROL\_FLAG (grade 4)
    - GR05\_ENROL\_FLAG (grade 5)
    - GR06\_ENROL\_FLAG (grade 6)
    - GR07\_ENROL\_FLAG (grade 7)
    - GR08\_ENROL\_FLAG (grade 8)
    - GR09\_ENROL\_FLAG (grade 9)
    - GR10\_ENROL\_FLAG (grade 10)
    - GR11\_ENROL\_FLAG (grade 11)
    - GR12\_ENROL\_FLAG (grade 12)
    - SU\_ENROL\_FLAG
  + INDEPENDENT (bool flag, tells us if a school is an independent school or not)
  + PHY\_ADDRESS\_LINE\_1 (string, the first line of the address)
  + PHY\_ADDRESS\_LINE\_1 (string, the second line of the school’s address)
  + PHY\_CITY (string, the school’s city)
  + PHY\_POSTAL\_CODE (string, the school’s postal code)
  + PHONE\_NUMBER (string, the school’s phone number)
  + EMAIL\_ADDRESS (string, the school’s email address)
  + PRINCIPAL\_TITLE (string like ‘Mr’, ‘Mrs’, note no punctuation)
  + PRINCIPAL\_NAME (string, full name of the principal)
  + STUDENTS (int, the number of students and this school)
  + Report flags (Which schools have which reports?, flags, bool)
    - W\_ENROL1 (Student Enrolment Over Time)
    - W\_ENROL2 (Number of Students Across All Grades 2016/2017)
    - W\_FSA1 (Foundation Skills Assessment 2015/16)
    - W\_FSA2 (FSA Student Growth Over Time - Reading, FSA Student Growth Over Time - Writing, FSA Student Growth Over Time - Numeracy)
    - W\_G2G (Grade-to-Grade Transitions)
    - W\_SAT1 (Student Satisfaction for 2015/16)
    - W\_SAT2 (Post-Secondary and Career Preparation)
    - W\_EXAM (Provincial Examinations)
    - W\_PSI (Transition to BC Post-Secondary Education)
* School District
  + SD (unique constraint, string, school district ID, keys for other tables to lookup values in this table)
  + DISTRICT\_NAME (unique constraint, string, the name of the school district)
  + PHY\_ADDRESS\_LINE\_1 (string, the address of the school district)
  + PHY\_CITY (string, SD city)
  + PHY\_PROVINCE (SD province)
  + PHY\_POSTAL\_CODE (string, the postal code of the main office of the school district)
  + WEBSITE (string, the school district’s website)
  + CONTACT\_TITLE
  + CONTACT\_FIRST\_NAME (string, first name of SD contact)
  + CONTACT\_LAST\_NAME (string, last name of SD contact)
  + POSITION (string, position of SD contact)
  + CONTACT\_PHONE (string, the contact number of the school district)
  + CONTACT\_PHONE\_EXTENSION (int or null)
  + CONTACT\_EMAIL (string)
  + DISTRICT\_PHONE
  + DISTRICT\_FAX

# Routes/URLs

* homepage /
* directory page /all/[cities | school-districts]
* city directory results page /schools/in/[city]
* school page /school/[mincode]
  + school report page /school/[mincode]/report/[report\_type]
* school district page/school-district/[sdID]
  + school district report page /school-district/report/[report\_type]