Student Management System Architecture

Main Technologies: Spring boot 1.5.7, Angular 4.2.3, Mongo DB 3

System can be divided in to two parts.

- Backend Spring boot REST API
- Frontend Angular 4

Backend - Spring boot REST API

Spring boot REST API provides functionality of CRUD (CREATE, READ, UPDATE, DELETE) operations.

Get all students
GET: /api/v1/students

Get student by id
GET: /api/v1/students/{id}

Create a new student
POST: /api/v1/students

Update existing student
PUT: /api/v1/students/{id}

Delete existing student
DELETE: /api/v1/students/{id}

Frontend - Angular 4

Frontend part is developed separately. Frontend is separated to header and student sections. Bootstrap API is used to style the frontend.

Frontend and backend integration

First build angular 4 application using **ng build –prod** command and put all build java script and html templates files to spring boot static folder.

After putting frontend files then build the spring boot application using maven commands.

- 1) mvn clean package
- 2) go to the target folder cd target
- 3) To run application java jar StudentManagementSystem-0.0.1-SNAPSHOT.jar

