CingleVue Coding Challenge- Student Data management System

Application Configuration and Deployment Guild lines:

Application can be deploy as War file in any Java supporting Web Application server

URL: http://ServerIP:port/displayAllStudents

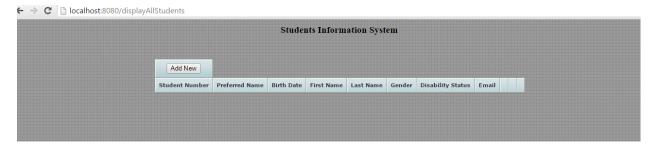
Example: http://localhost:8080/displayAllStudents

(successfully Tested on Tomcat 7)

XML Data file location can be change in **dataAccess.properties** file (if path is not specified default location is ApplicationServer directory/bin/ student_data.xml)

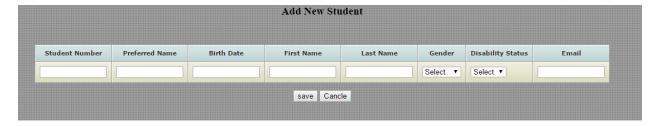
Location: WEB-INF\classes\dataAccess.properties

Initially there will be no entries in the Data Storage



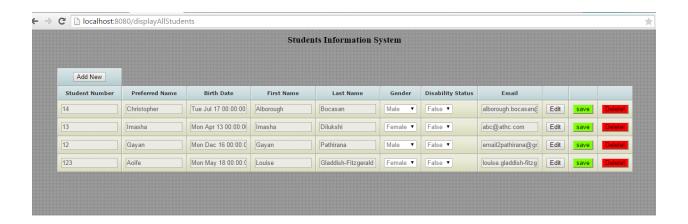
Click on Add New Button to add new student entry



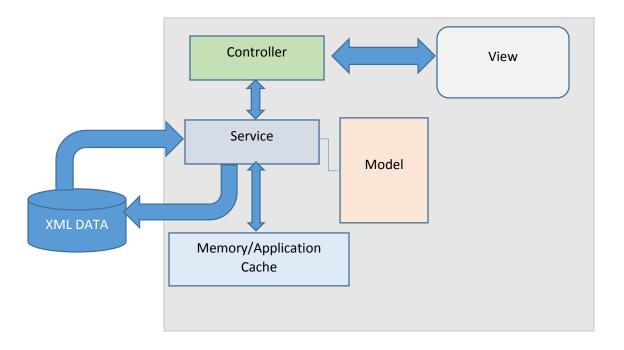


When click on Edit button, relevant recode will be change to editable mood. After changing the values click on save button to save data.

Clicking on Delete button will be deleted the recode permanently from Data storage



Application Architecture Diagram



High level Work flow:

- 1 Application is Loading XML Data to Memory (to Hash Table) in Application Stat up
- 2 Controller is getting data from cache via Service method to populate display result request
- 3 when Update/Insert/Delete operation, 1st update the cache (Hash Table) then update in to XML file

JAXB is used For marshaling and unmarshaling (JAVA to XML /XML to JAVA)

Technologies and Tools Used:

Java (J2EE) /JSP

Spring MVC

JAXB

Java Script/Jquery

Ajax

CSS

Maven

IntelijIdea (IDE)

Tomcat (Application server for hosting)