

Comparison Web Project

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Introduction

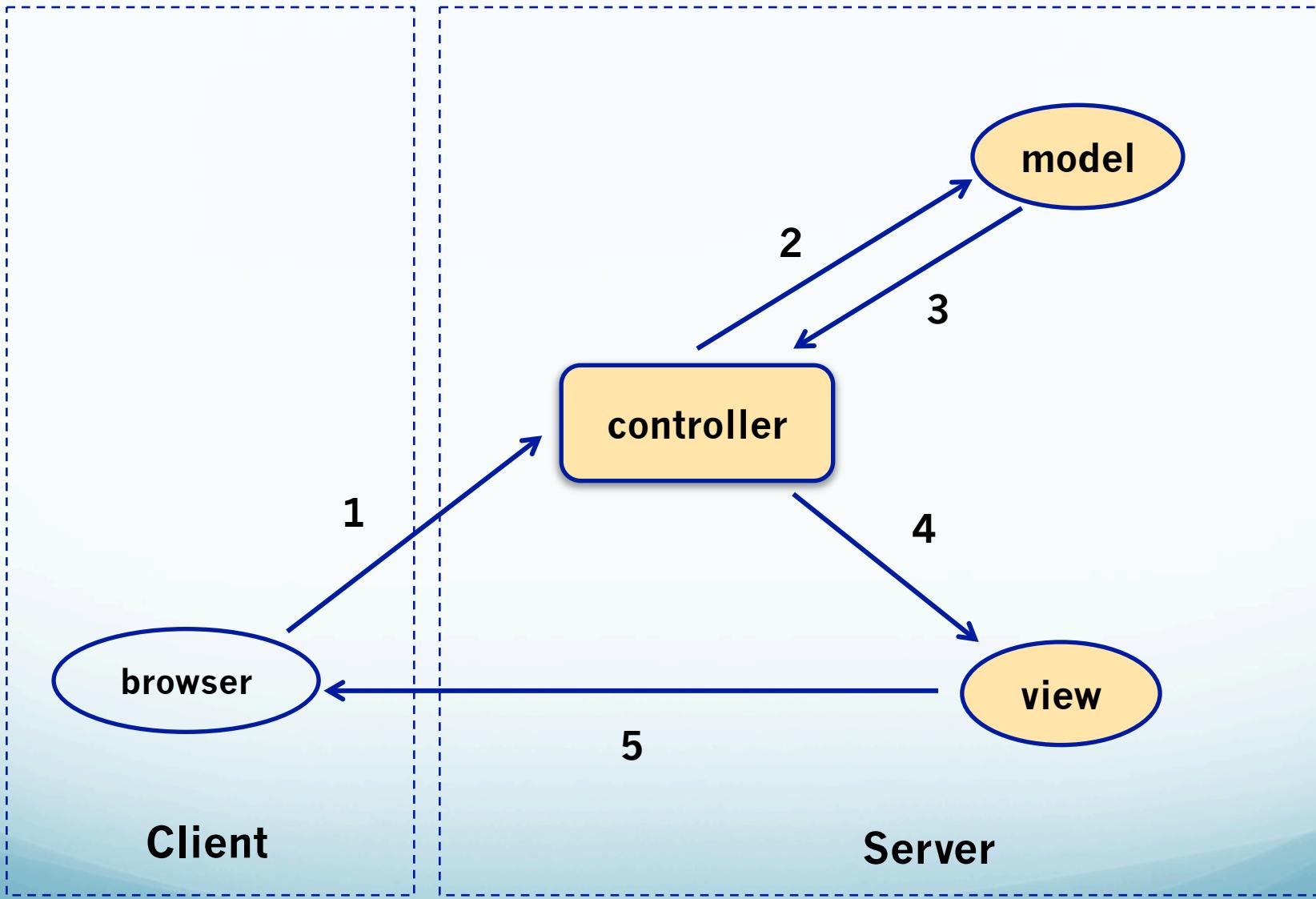
- Project Goal: Create web project to find out unique records of 2 uploaded files
- Project Assumption: Assume the records format of uploaded files is ID, Name and Values.

e.g. test file 1: t1.txt



t1.txt						
##INFO=test file1, author: Ann Huang, 02/19/2019						
#ID	Name	value1	value2	value3	value4	value5
value6	value7	value8	value9	value10	value11	value12
value13	value14	value15	value16	value17	value18	value19
value20	value21	value22				
2655180	David	0	1	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	1			
2655471	Mark	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0			
2655754	Lily	0	0	1	0	0
		0	0	0	0	1
		0	0	0	0	0
		0	0			
2655800	Shen	0	0	0	0	0
		0	0	0	0	0
		0	0	0	0	0
		0	0			

Strategy – MVC Architecture

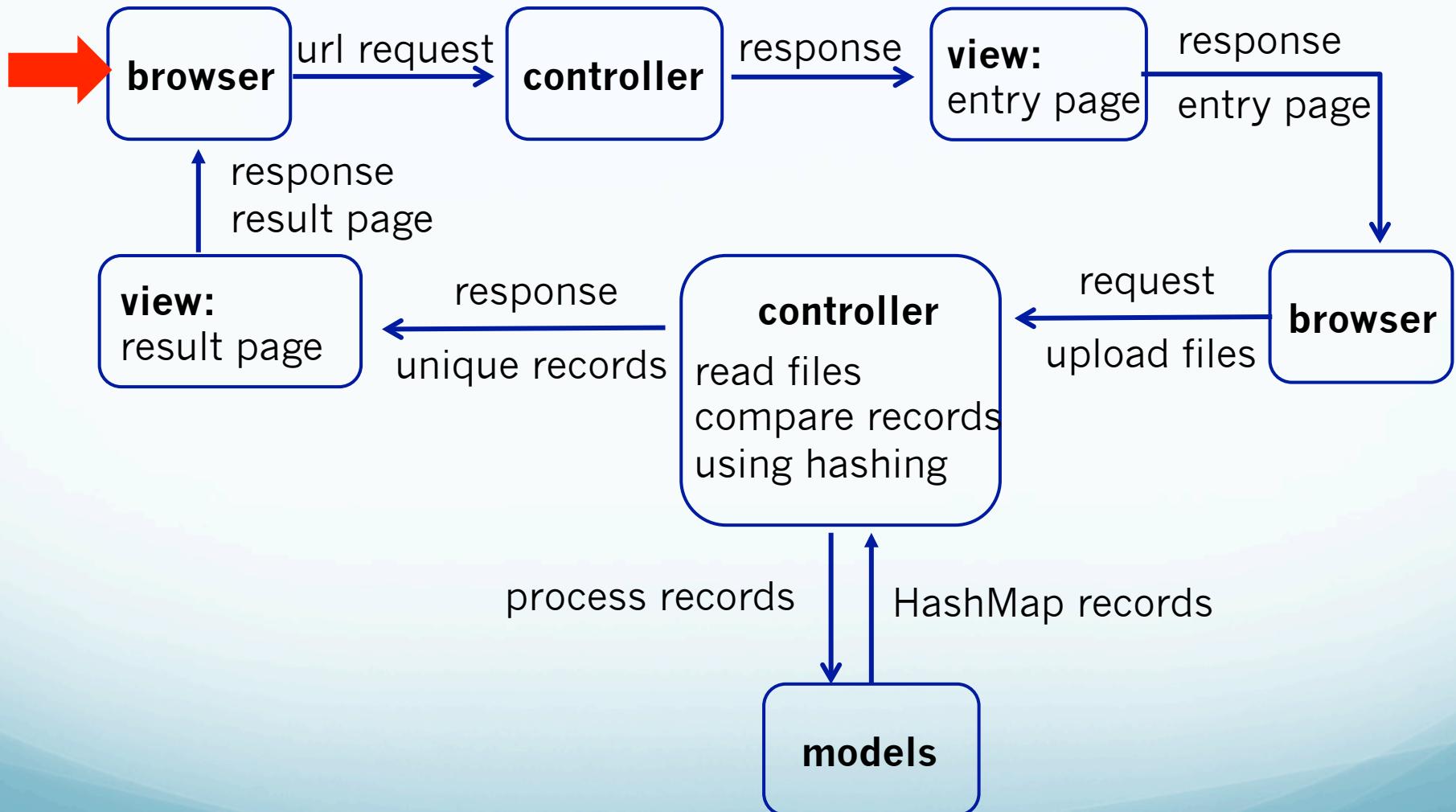


Strategy – MVC Architecture

MVC: Models, Views, Controller

- **Models:** represent **data**
 - Java class/object
- **Views:** Render the **display** to clients
 - HTML (CSS, JavaScript), JSP
- **Controller:** Implement **actions**
 - Handle input, access/process data, implement logic, pass data to views
 - Java (Servlet)

Strategy – Workflow & Algorithm

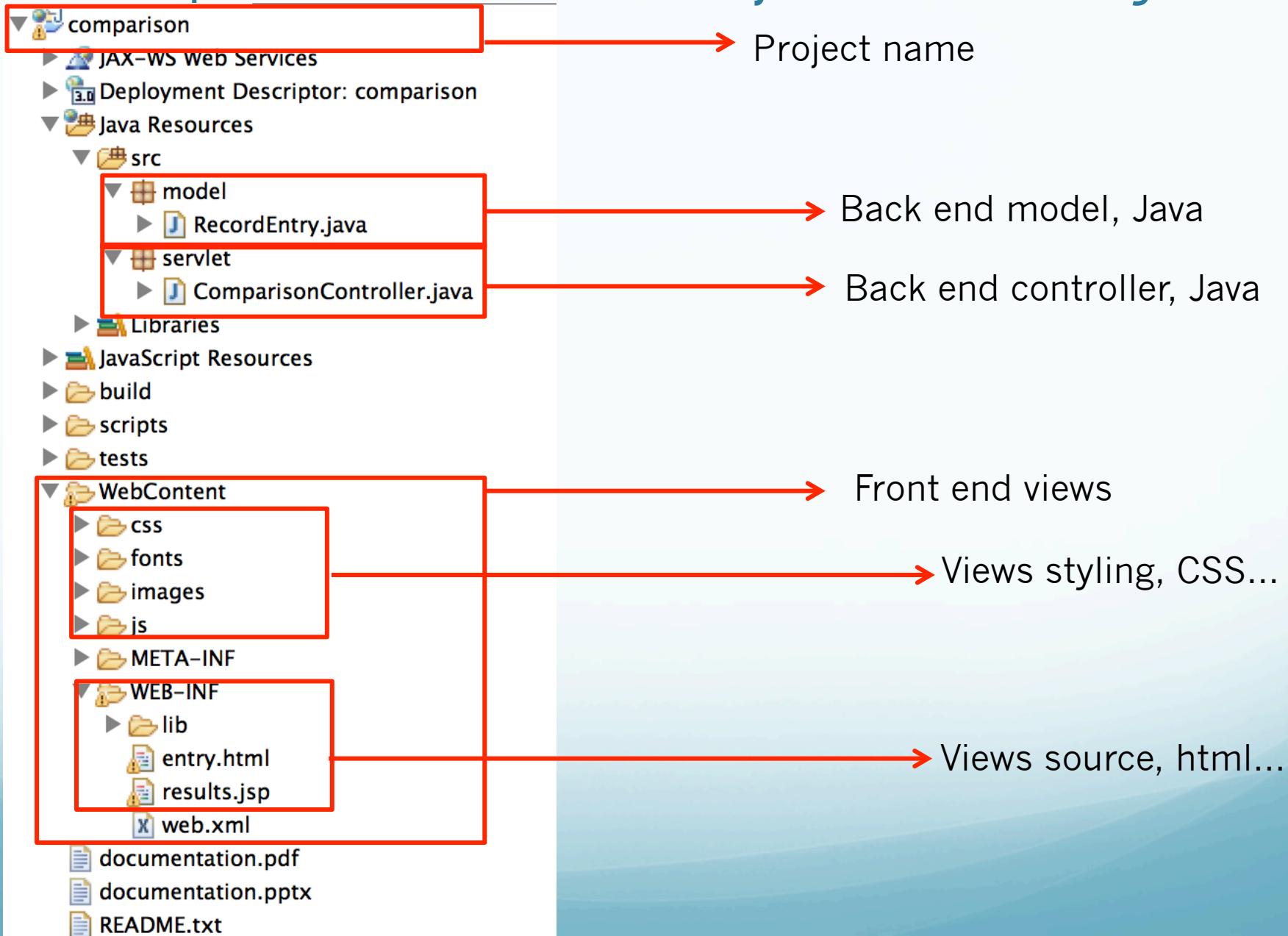


Implementation – Environment Configuration

- Java
 - Download and install
 - 1.7 version JDK
- Tomcat server
 - Download and install
 - Add the [JSP Standard Tag Library \(JSTL\)](#).to the lib folder under the Tomcat directory:
- Eclipse
 - Download Eclipse IDE for Java EE
 - Run Web App with eclipse using Eclipse build in Tomcat

More details : README.txt

Implementation – Project Hierarchy



Implementation – Demo

The screenshot shows a web browser window with the URL `localhost:8080/comparison/`. The page title is "Genomics Health | Compar". The main content area has a blue background with a faint DNA helix watermark. It features a central "Comparison" section with two "Choose File" input fields, both showing "No file chosen". Below these is a "Upload" button. To the left and right of the upload area are large white arrows pointing left and right respectively. At the bottom of the page, there is a white banner with the text "What Do I Do In My Spare Time".

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Home

Comparison

Choose File No file chosen

Choose File No file chosen

Upload

What Do I Do In My Spare Time

Please refer to demo. mp4 file
<https://goo.gl/gu3LvQ>

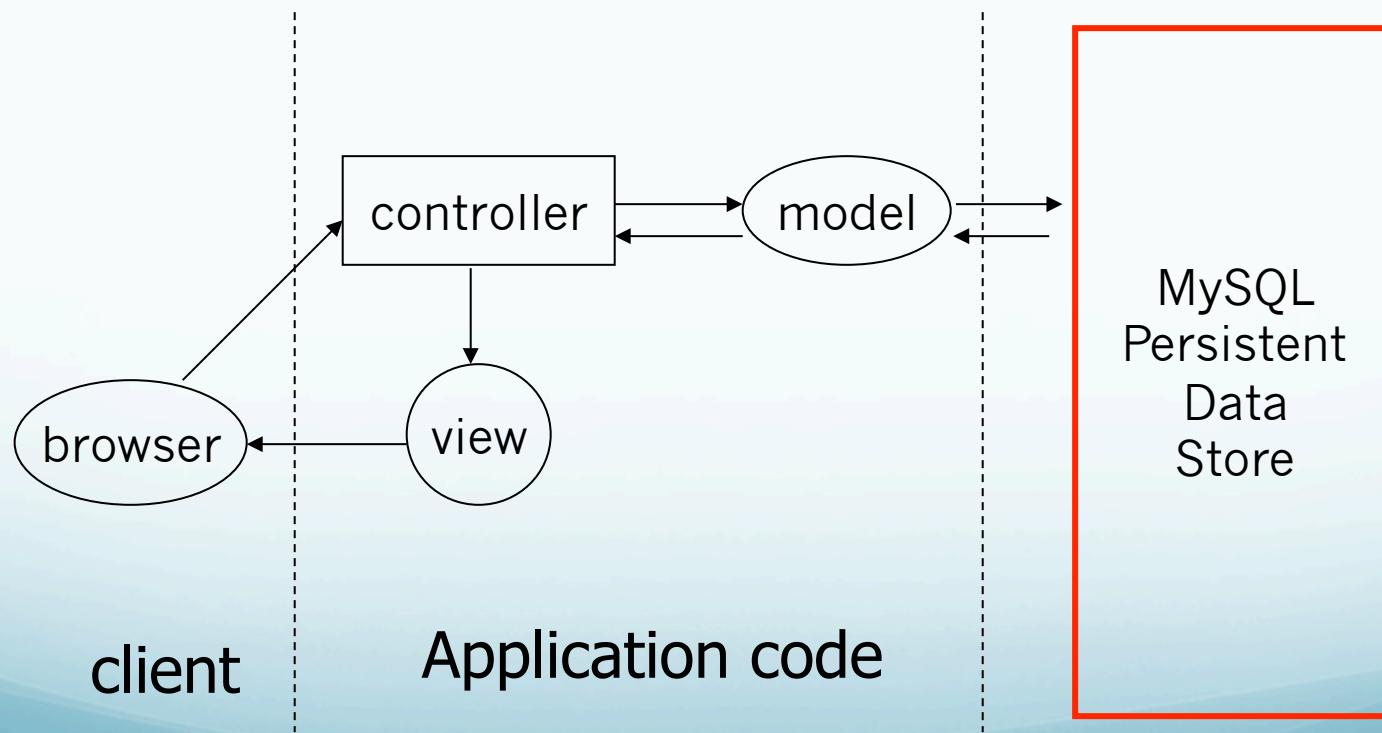
Summary – Technique/Tools Involved

- Architecture: MVC
- Back end: Java (Servlet)
- Front end: HTML, CSS, JavaScript, JSP, JSTL, bootstrap(JS CSS framework)
- Version Control: GitHub



Summary – Future Plan

- Modify model class based input file format (record format)
- Back end model use MySQL, the database creation and two tables comparison scripts are already in the source code



Thank you