Panda Framework

 \sim Java Web Application Development Framework \sim

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1 About Panda Framework

1.1 Outline

Panda Framework is a Java development framework that helps you quickly develop a web application. Panda Framework is an elegant, extensible framework for creating enterprise-ready Java Web applications. The framework is designed to streamline the full development cycle, from designing to building, to deploying, to maintaining applications over time. Comparing to popular Java application frameworks such as Spring/Struts2/Hibernate, Panda Framework is small and complete, easy to use, and easy to develop.

1.2 Features

1. Automatic generation of the source code

The Panda Framework Code Generator can automatically generate the source of Action / Dao / Bean / View. The cost of development can be significantly reduced.

2. Writing SQL is not needed

Use the API provided by Panda Framework, a programmer does not need to write SQL statements, can easily execute query / insert/ update / delete function based on a database table. It is easy to extend the Panda Framework's base class to achieve some special purpose. So, it can improve the quality of source

code and reduce the bugs.

3. HTML Page \Rightarrow PDF Convert Feature

4. Business Logic Development is Easy

Using template class to develop Search/List/View/Add/Update/Delete function is very easy and fast.

5. Improve productivity and source quality

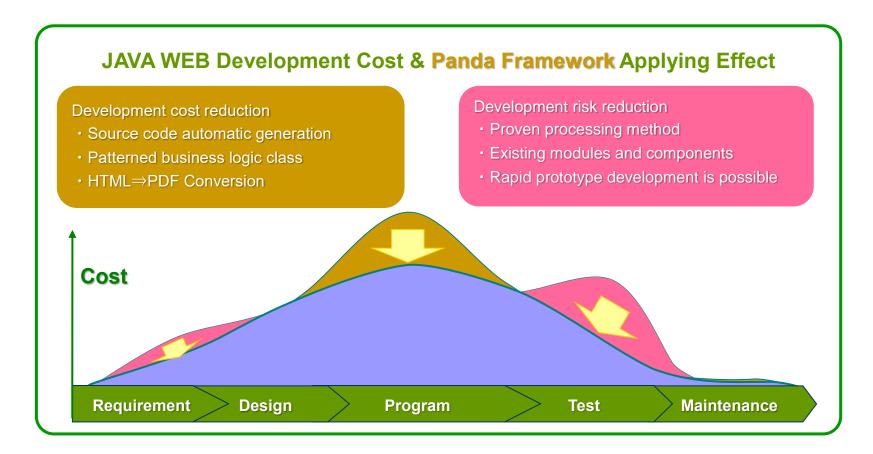
Base on the generated source, the source quality and program productivity can be significantly improved.

6. Easy to use

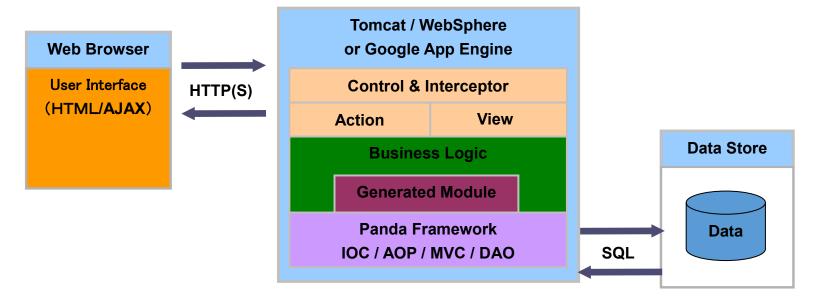
We provide a rich set of documents and samples to reduce initial cost from introduction to development.

1.3 Panda Framework Applying Effect

By applying Panda Framework, effective development and operation maintenance can be achieved.



1.4 System Architecture



1.5 Modules

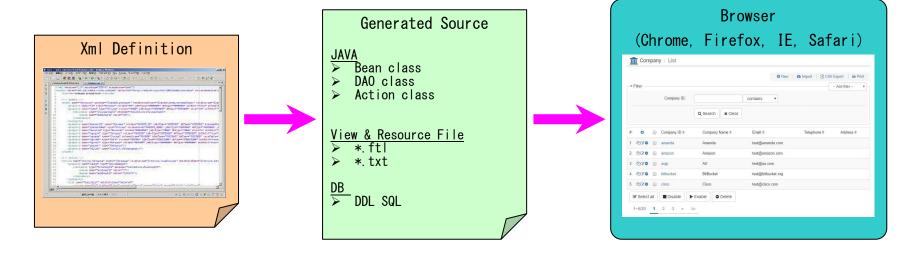
Panda Framework consists of the following modules.

Module	Description	
panda-core	This is the most basic part of the Panda framework and it contains many useful class	
	similar to apache-commons.	
panda-gear	loc/Mvc/TagLib module.	
	Similar to Spring-MVC, Struts2, contains some commonly used taglib.	
panda-glue	ASM/AOP module.	
panda-html	Contains jQuery, Bootstrap, and the css/javascript required by panda-gear's taglib.	
panda-tool	Source code generator.	
	Can generate Entity/Query/Dao/Action class, Freemarker (HTML) template file.	
panda-tube	Web Service API client (WordPress XMP-RPC, Google Vision API).	
panda-wear	Extension Web-APP module.	
	Contains basic template classes that implement CRUD, user authentication, and some	
	other useful classes.	

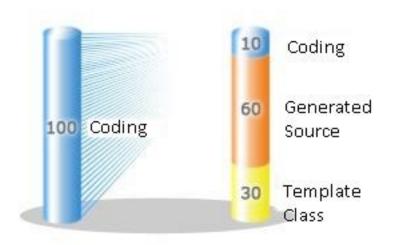
2 Code Generator

2.1 About the code generator

By using the Code Generator of Panda Framework, programmers do not need to write source code & SQL statements. Just define the database table structure and the user interface layout, and let Code Generator automatically generate source code to achieve the data search / list(sort, paging) & record view / insert / update / delete functions based on a database table. Greatly reduce the amount of manually coded source, improve the quality of source code and reduce the development costs.



2.2 The effect of code generator



Based on templated CRUD class and generated source, greatly reduce the amount of manually coded source, improve the quality of source code and reduce the development costs.

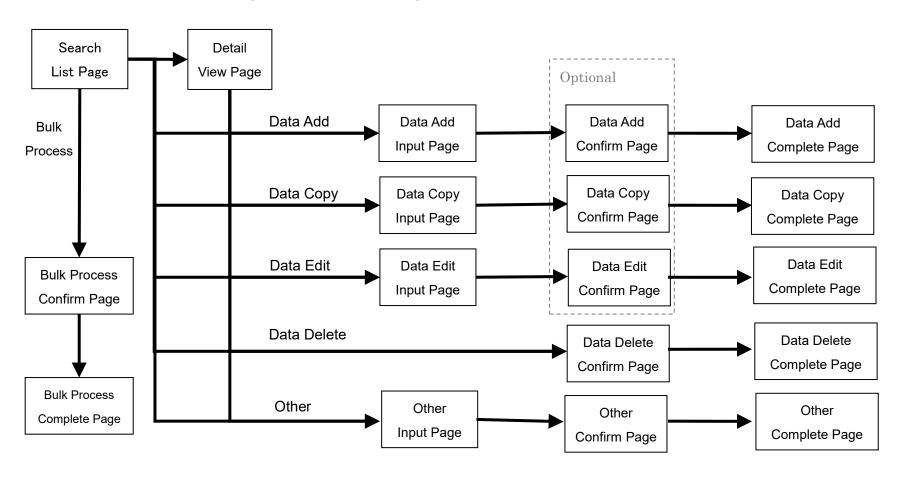
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2.3 Generated features by code generator

Code generator can generate the following features. And it is easy to customize.

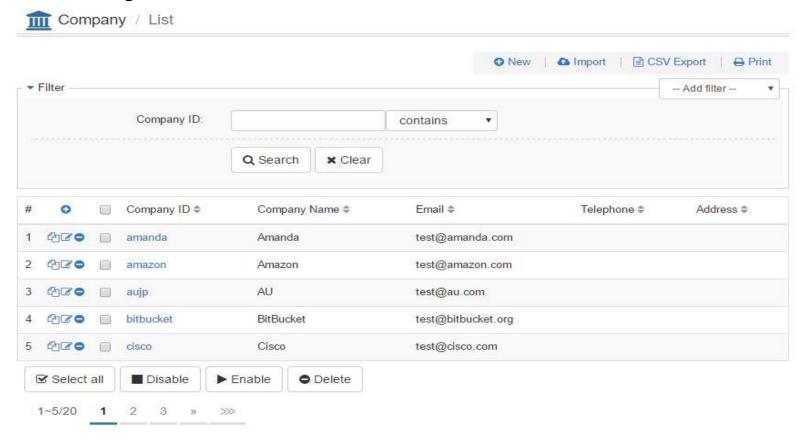
No.	Feature	Description
1	Search	Search/Query form.
2	List View	Search result list view.
3	List Print View	Search result list view for print.
4	Data Detail View	Data detail view page.
5	Data Detail Print View	Data detail view page for print.
6	Data Add	Data add feature.
7	Data Copy	Data duplicate feature.
8	Data Edit	Data edit feature.
9	Data Delete	Data delete feature.
10	Data Export	Export data to CSV/XLS file.
11	Data Import	Import data from CSV/XLS file.
12	Bulk Data Process	Process multiple data.

2.4 Generated web page transition diagram

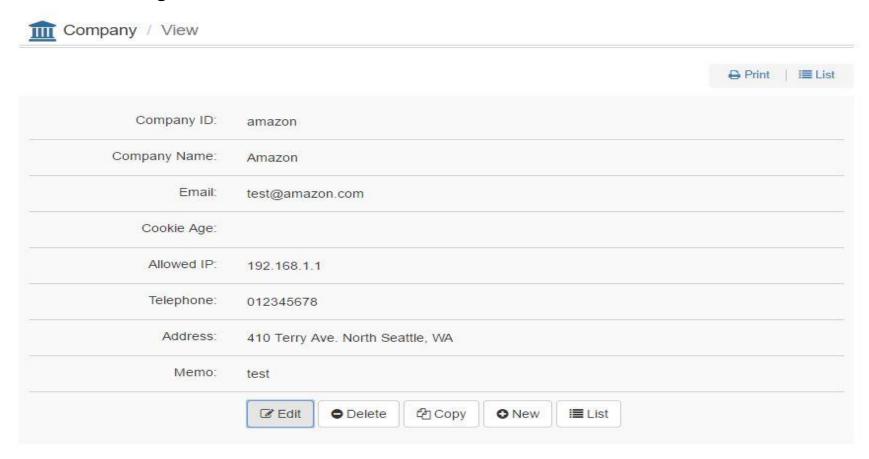


2.5 Screenshot of generated source

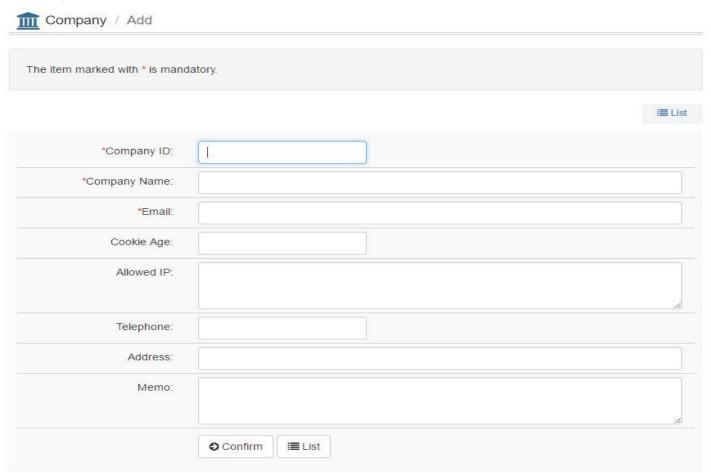
1. List/Search Page



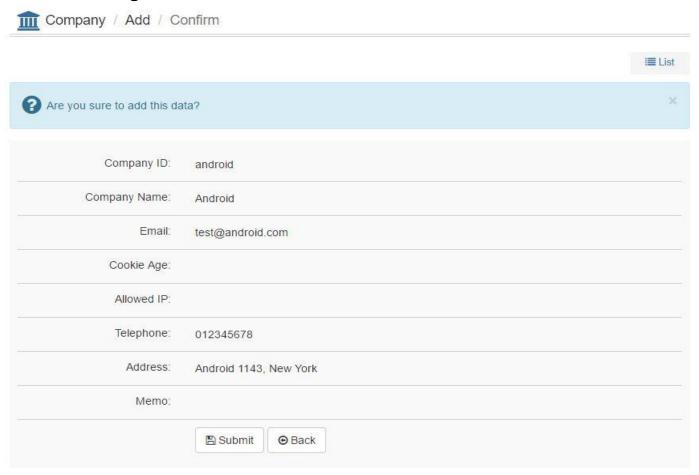
2. Detail View Page



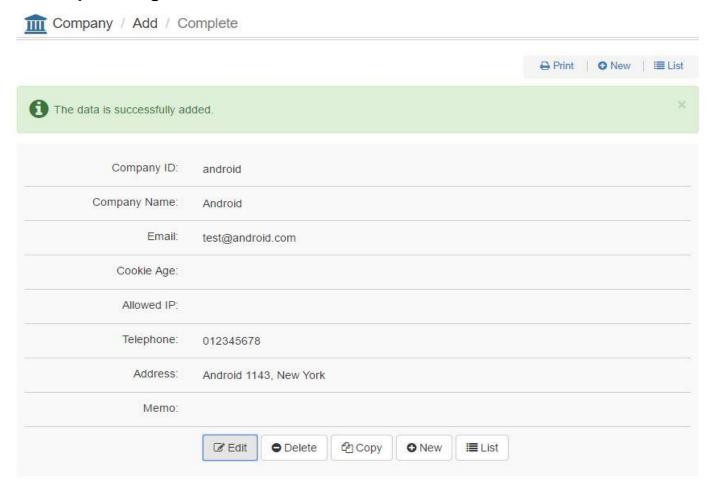
3. Data Add Page



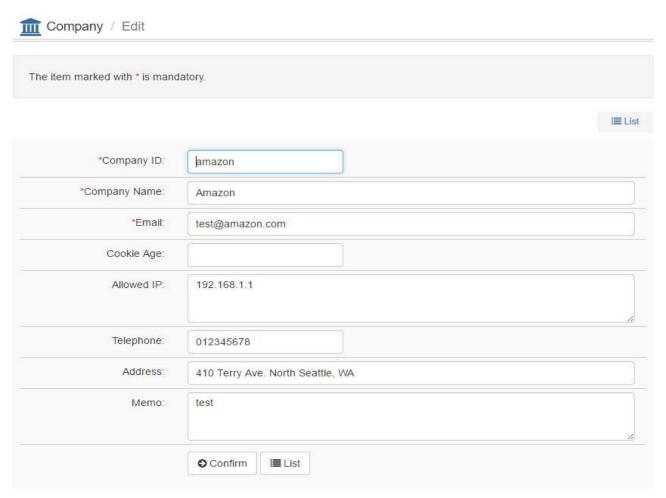
4. Data Add Confirm Page



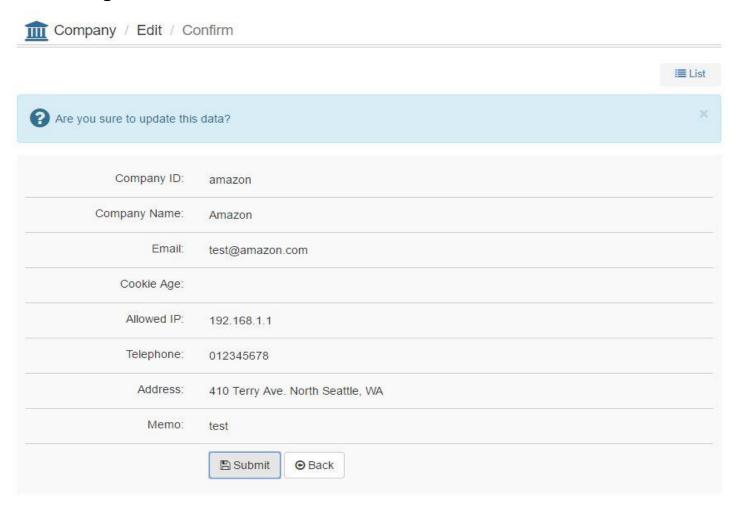
5. Data Add Complete Page



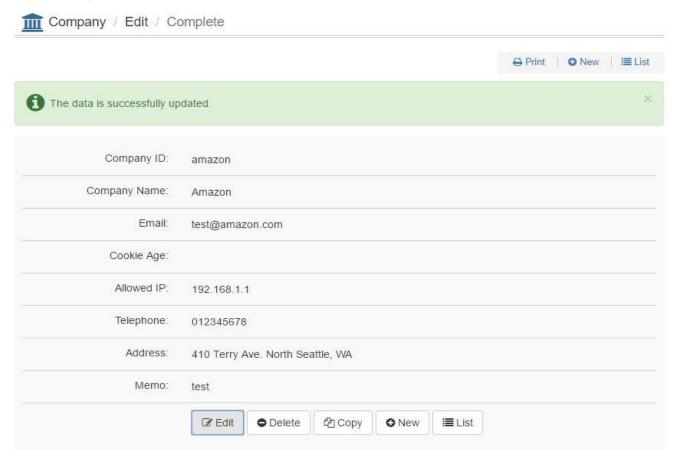
6. Edit Page



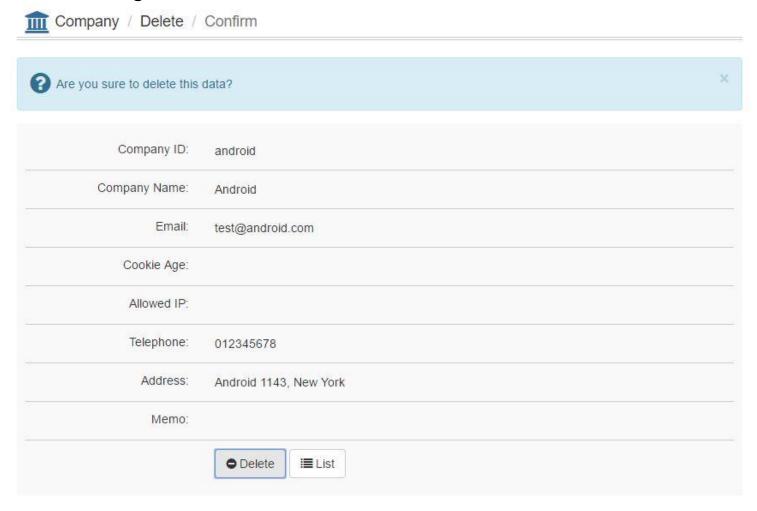
7. Edit Confirm Page



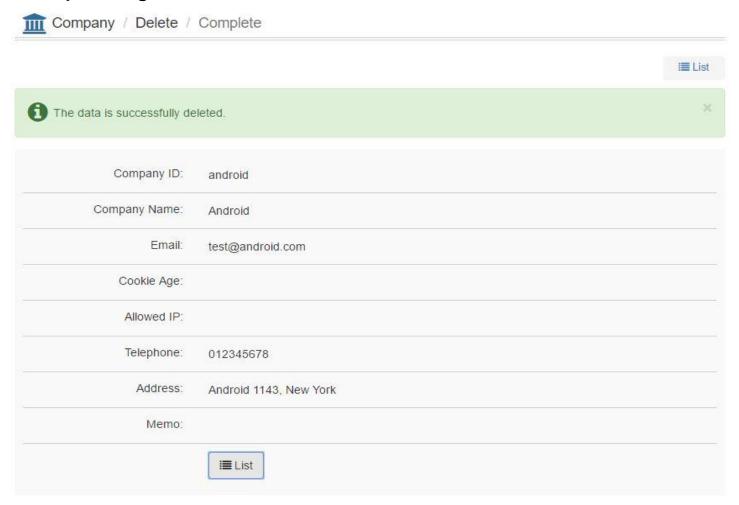
8. Edit Complete Page



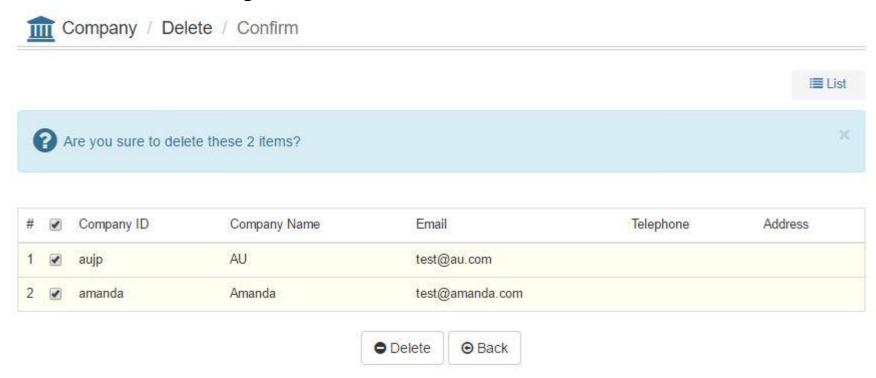
9. Delete Confirm Page



10. Delete Complete Page



11. Bulk Delete Confirm Page



12. Bulk Delete Complete Page

