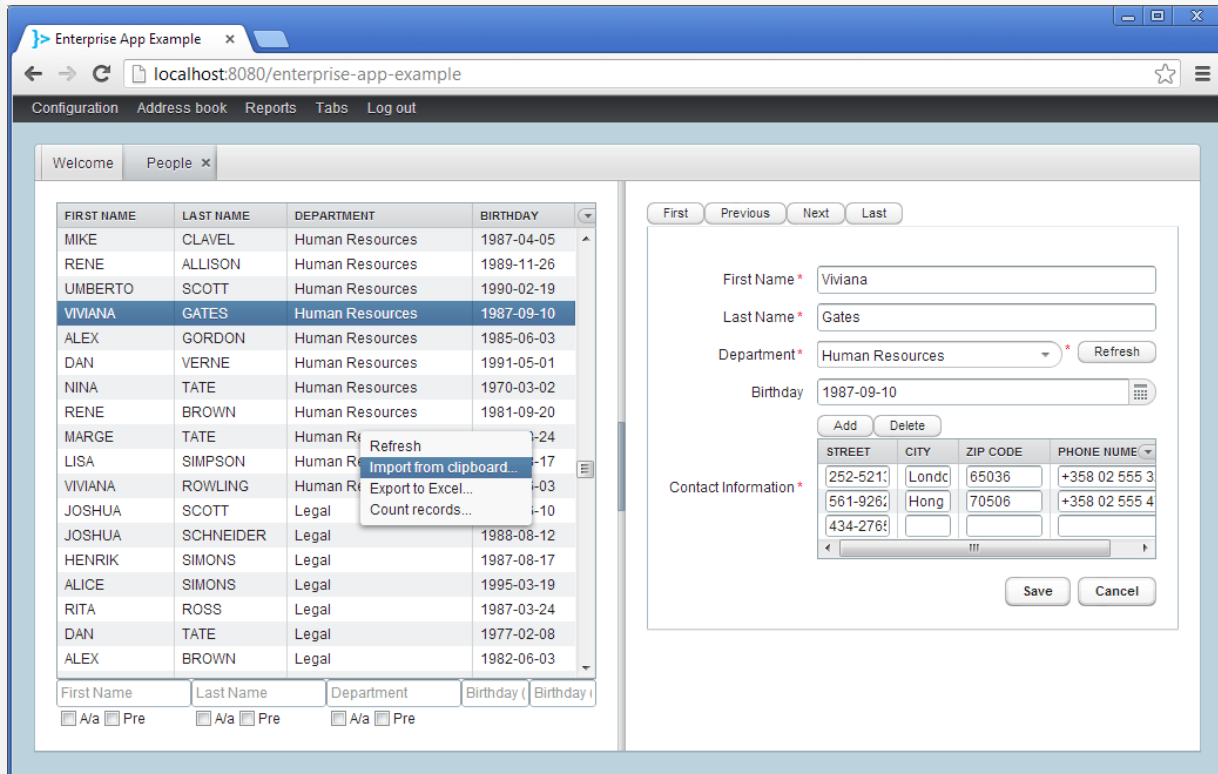


# Enterprise App



## Build CRUD-Based Applications with Ease

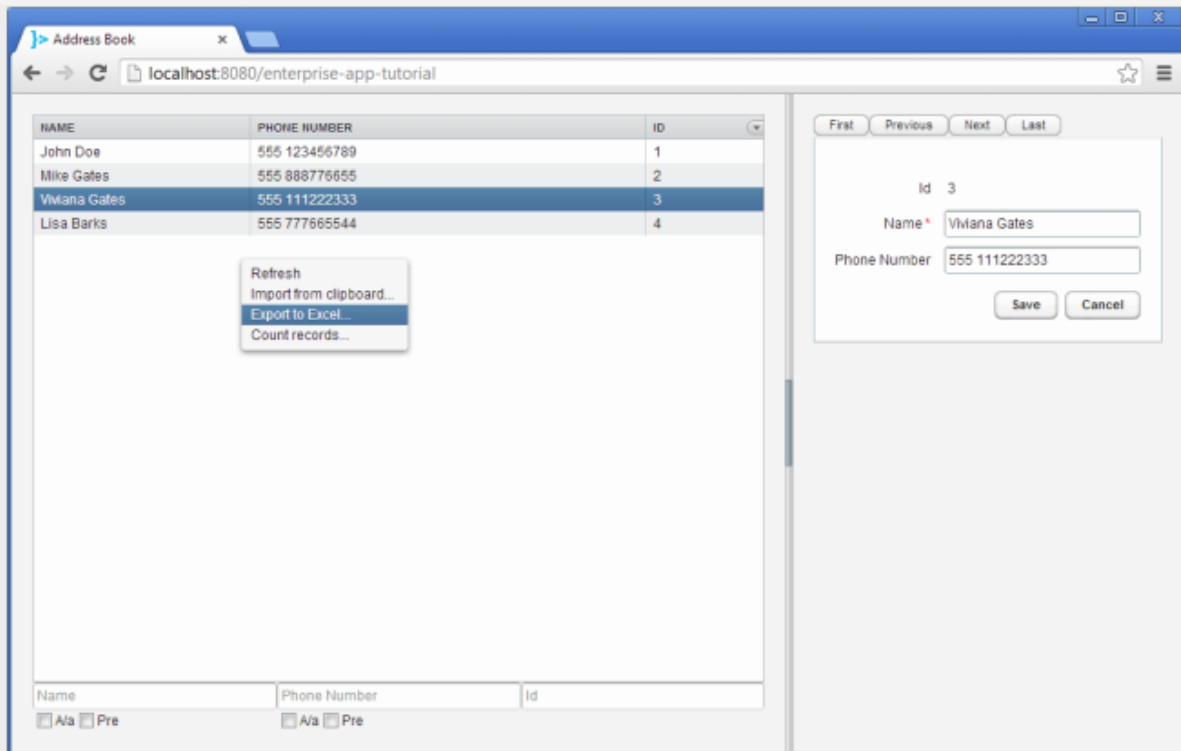
Powered by Vaadin, Enterprise App allows you to easily build CRUD-based Java web applications in minutes. No XML, no Javascript, no HTML needed.

### How it Works

Suppose you are using Enterprise App and have a simple Hibernate Java entity class (Person). You would like to have a CRUD web interface with **lazy-loading**, **import/export**, and **filtering capabilities**. All you need is one line of code to get a powerful ready to use CRUD component in your Vaadin application:

```
CrudComponent crud = new CrudBuilder(Person.class).build();
```

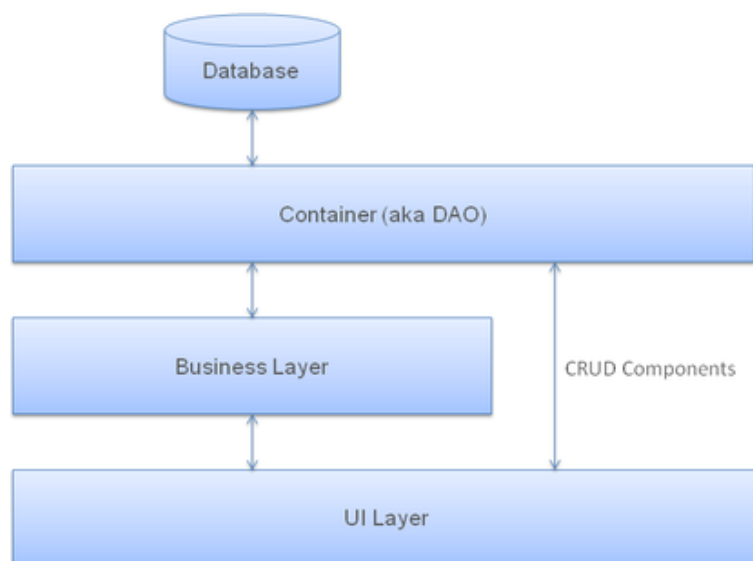
That's it. Add your *crud* instance to any Vaadin component container:



## Ready to Use Architecture

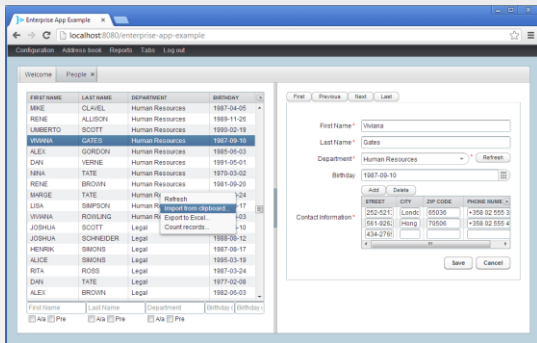
Is Enterprise App all about CRUD components? Not at all! Enterprise App defines a ready to use, proven architecture for your enterprise web applications. Enterprise App is not the best solution for every web application out there, however, the author have created Enterprise App to help himself developing mid-sized Java web applications that share certain common functionality. If you need to build a java web application using Hibernate and Vaadin, Enterprise App is a good alternative to consider.

Below is the typical architecture for applications using Enterprise App:



# Useful Components

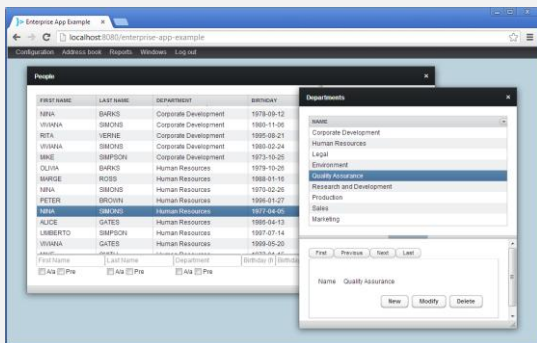
Enterprise App provides you some common, ready-to-use components:



## CRUD Component

An advanced front end for your Hibernate Entities. Features:

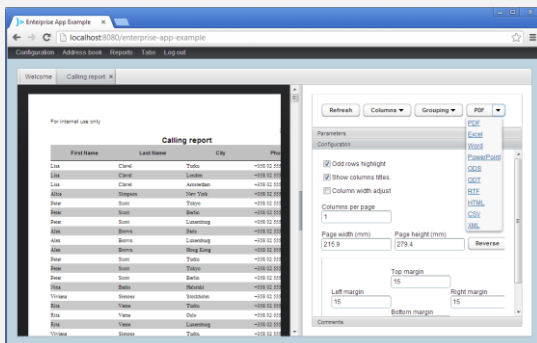
- CRUD operations.
- Automatic filter.
- Import from clipboard Excel copied cells.
- Export to Excel.
- Embedded "crud tables".
- Navigation controls.
- Order by column.
- Table column reordering and collapsing.
- Fully customizable.



## MDI windows

Multiple Document Interfaces (MDI) for your web applications. Features:

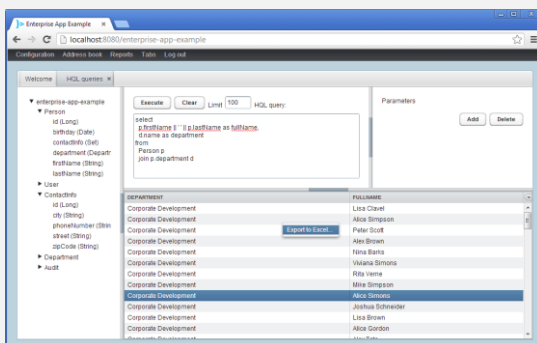
- Tabs / Windows automatic switching.
- Tabs keyboard shortcuts.
- Window resizing.
- Window / Tab closing confirmation.



## Reports

Powerful report component to visualize and export data. Features:

- Report from HQL query.
- Report from custom data.
- Export to multiple formats.
- Formatting options (page size, margin, styles).
- Hide / show columns.
- Print preview.
- Column grouping (beta feature).



## HQL Query Browser

Execute HQL queries for your Hibernate entities. Features:

- Export results to Excel.
- Automatic data model tree visualization.
- Parameter injection.

The screenshot shows a web application interface for an audit log. The browser address bar shows 'localhost:8080/enterprise-app-example'. The application has a navigation bar with 'Configuration', 'Address book', 'Reports', 'Tools', and 'Logout'. Below the navigation bar is a 'Welcome' message and an 'Audit log' link. The main content area displays a table of audit events. The table has columns for 'DATE', 'USER', 'ACTION', 'ENTITY TYPE', 'STD ID', 'IP', and 'DETAILS'. The table contains 15 rows of data, showing various actions like 'Modify', 'Delete', and 'Update' performed by users like 'admin' on entities like 'User', 'Person', and 'Legal'.

DATE	USER	ACTION	ENTITY TYPE	STD ID	IP	DETAILS
2012-05-06	admin	Modify	User	2	127.0.0.1	[configuration/Access-Role], [login-test], [modify/Access-Role], [password-test], [readAccess-Role]
2012-05-06	admin	Modify	User	2	127.0.0.1	[configuration/Access-Role], [login-test], [modify/Access-Role], [password-test], [readAccess-Role]
2012-05-07	admin	Delete	Person	1	127.0.0.1	[deletePerson], [id=1], [department=Corporate Development], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	2	127.0.0.1	[deletePerson], [id=2], [department=Human Resources], [firstName=Mike], [lastName=Mike]
2012-05-07	admin	Delete	Person	4	127.0.0.1	[deletePerson], [id=4], [department=Human Resources], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	5	127.0.0.1	[deletePerson], [id=5], [department=Legal], [firstName=Mike], [lastName=Mike]
2012-05-07	admin	Delete	Person	6	127.0.0.1	[deletePerson], [id=6], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	7	127.0.0.1	[deletePerson], [id=7], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	8	127.0.0.1	[deletePerson], [id=8], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	9	127.0.0.1	[deletePerson], [id=9], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	10	127.0.0.1	[deletePerson], [id=10], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	11	127.0.0.1	[deletePerson], [id=11], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	12	127.0.0.1	[deletePerson], [id=12], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	13	127.0.0.1	[deletePerson], [id=13], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	14	127.0.0.1	[deletePerson], [id=14], [department=Legal], [firstName=John], [lastName=John]
2012-05-07	admin	Delete	Person	15	127.0.0.1	[deletePerson], [id=15], [department=Legal], [firstName=John], [lastName=John]

## Audit log (beta)

Incorporate audit log in your applications. Features:

- Server log file based auditing.
- Hibernate entity based auditing.
- Audit date-time, user, action, entity, ID, IP, and details.

<http://enterpriseapp.alejandrodu.com/>