

# RakuGaku & ModelPersistence

楽学

The All-In-One Tool for Japanese Language  
Mastery

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# Product Pitch

Dictionaries, flashcards and existing tools

- Single language support
- Not customizable
- Static learning methods

Targeting Academic, Business and Travel

- Convenient
- Flexible
- Comprehensive learning platform

# Description

## Integrated platform

- Allows for customization and expansion.
- Allows students and users to take control of their learning experience.

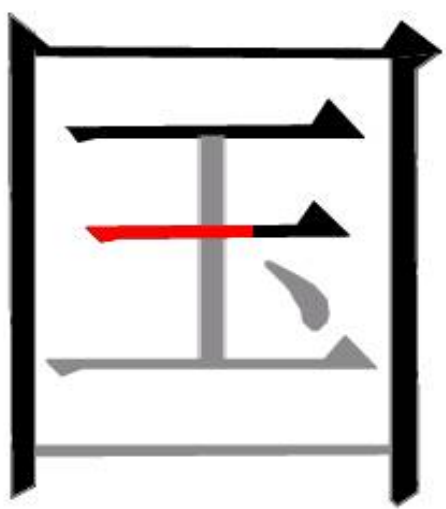
## Provides

- Integrated lesson plans.
- Track and identify weaknesses.
- Comprehensive and, foremost, useful!

# Demo

Flashcards

T  
I  
S



name

nine

country

Notecards



On: ホン モ  
Kun:  
Gloss: Book, present, main, true, real,  
counter for long things,

# Competition

	JED	WWWJDIC	JLPT kanji	GakuGaku
Full JPLT Library	✓	✓	✓	✓
Stroke Order	✓	✓	✗	✓
Kanji Recognition	✗	✓	✓	✓
Grammar	✗	✗	✗	✓
Browsing	✓	✓	✓	✓
Scoring	✗	✗	✗	✓
Works Offline	✓	✗	✓	✓
Pronunciation	✗	✗	✗	✓

# Challenges

## Center for Japanese Studies Consulting

- Getting specifications and lesson plans is harder than we thought.
- Working out the specifications makes building the UI imposs...hard.

## Limited markets

- Academic Programs
- Global Businesses
- International Travelers

## Kanji Stroke Recognition

- Need faster and more tolerant algorithms

# Model Persistence

Integrated Object-Relational Mapping (OR/M) Library.

- Provides transparent SQLite/JDBC/XML persistence layer for Android and Java.
- Produces Fully Normalized, Human Readable databases.
- Allows for reading existing sources and creates new sources dynamically.

# Example Code

Example:

**@Entity**

```
public class MyObject{
```

**@Id**

```
Integer id;
```

```
String name;
```

```
MyOtherObject[] stuff;
```

```
...
```

```
}
```



# Store Example

- Storage:

```
ModelFactory factory =  
ModelFactory.DefaultInstance();  
MyObject [] stuff = new MyObject[] {  
    new MyObject("SampleObject"),  
    ...};  
factory.storeAll(stuff);
```

# Search Example

- Search:

```
ModelConstraint modelConstraint = new ModelConstraint(null,
MyObject.class);
modelConstraint.addConstraint(
    "name",
    ModelConstraint.Relationship.EQUALS, false,
    "SampleObject");
// Search for matching sources
List<MyObject> results =
ModelFactory.Find(MyObject.class,constraints);
```

# Competition

<b>Feature</b>	<b>OrmLite</b>	<b>Active Android</b>	<b>Apache DbUtils</b>	<b>Model Persistence</b>
Configuration Free	No	No	No	Yes
Annotation Use	Yes	Yes	Yes	Yes
Requires Code Tooling	Yes	Yes/No	Yes	No
Supports Lazy Loading	Yes	No	No	Yes
S/HQL Free Searching	No	No	No	Yes
S/HQL Searching	Yes	Yes	Yes	No
Andriod Support	Yes	Yes	Yes/No	Yes
Cost	Free	\$20.00	Free	Free?

# Money

- RakuGaku:
  - Flashcards and dictionary only:
    - Android Market place by the end of the month.
  - Full Lesson plans and integrated environment:
    - In discussions with Center for Japanese Studies.
- ModelPersistence:
  - Free (most likely) but...where to put it??

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# Q & A