



Nicolas Hafner
@Shinmera

<https://everything.shinmera.com>

Radiance - A Web Framework Environment for Common Lisp

Usual Framework Focus

- Single application
- Tightly integrated
- Convenience through large toolsets

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- Often force libraries on you
- Problematic to host multiple applications

Radiance's Goals

- Many applications simultaneously
- Shared resources
- Exchangeable parts
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- Many applications simultaneously
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- Exchangeable parts
- Only use what you want
- Fully specified

A Tiny Example

- option: Pizza votes: 32
- option: Pasta votes: 4
- option: Lasagna votes: 12
- option: Crêpes votes: 9
- option: Mashed Potatoes votes: 2

Submit


```
(in-package #:rad-user)
(db:create 'vote '((option (:varchar 32))
                   (votes :integer)))

(define-page display #@"/" ()
  (r-forms:choose
   #@"/api/vote" "id"
   (dm:get 'vote (db:query :all))))

(define-api vote (id) ()
  (with-model-save model ('vote (:= '_id id))
    (votes)
    (incf votes))
  (redirect #@"/")
  (api-output "Vote registered."))
```

```
(define-interface (database db)
  (defun create (collection structure
                 &key indices if-exists))
  (defmacro query (query-form))
  ...))

(define-interface (data-model dm)
  (defun get (collection query
             &key (skip 0) (amount 0) sort))
  ...))
```

```
(define-module #:my-database
  (:use #:cl)
  (:implements #:database))
(in-package #:my-database)
```

```
(defun db:create (database db
                  &key indices if-exists)
  ...)
```

```
(defmacro db:query (query-form)
  ...)
```

```
...
```

What Radiance Offers

Modules

Interfaces

Request handling

URIs

URI Patterns

Resources

Bidirectional Routing

Dispatching

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User storage

User profiles

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Database interaction

DB abstractions

Templating

Error handling

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Chatlog

Blog software

File hosting

Imageboard

Database introspection



radiance-logo.png

<https://github.com/Shirakumo/radiance>

```
(ql-dist:install-dist  
  "http://dist.tymoon.eu/shirakumo.txt")  
(ql:quickload :radiance)  
(radiance:startup)
```