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couchdb4livecode

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Daybed - A Library for Apache CouchDB

There are 3 methods to use the Daybed library:

- 1 [The Main functions](#) which give access to all CouchDB commands.
- 2 [The Quick functions](#) which allow for quick access to essential functions.
- 3 [The Sync functions](#) which synchronizes local documents with a database designated for the user.

Note: FastJSON has been appended to the library, and is used by default for JSON encoding and decoding.

- The primary commands have "fast." prefixed to the commands to differentiate them from the built in commands (mergJSON).
- I've modified the handling of numeric arrays so that order is maintained.
- I've added code to "fill in the blanks" with null if a numeric array has numeric gaps. (Optional)
- I've added local variables for "keep numeric" and "fill in the blanks" so they do not need to get passed back in as an argument.
- The original is maintained by Bob Hall here: <https://github.com/bhall2001/fastjson>

I recommend using FastJSON over mergJSON because:

- MergJSON only creates JSON arrays with numeric keys that go from 1 to N with no gaps. I'm experimenting with some commands to improve this, but for now it requires a few extra steps to work around.
- I've had difficulties with MergJSON in Ubuntu standalones. (Sorry, I REALLY need to fill out bug report for this)
- FastJSON is easier to use with Livecode-server. (No need to compile a stack and include the external)

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Main Functions:

`couch.get(pFunk, pURL, pDB, pDocID, pParams, pOptions, pFormat)`

- The couch.get function retrieves a document, multiple documents, or information.

`couch.put(pFunk, pURL, pDB, pDoc, pParams, pOptions, pFormat)`

- The couch.put function inserts a value or a document into a database.

`couch.post(pFunk, pURL, pDB, pDoc, pParams, pOptions, pFormat)`

- The couch.post function inserts multiple documents or values into a database.

`couch.delete(pFunk, pURL, pDB, pDocID, pParams, pOptions, pFormat)`

- The couch.delete function deletes a document or database, or a config key.
 - Note: the database is really deleted, however the document can still be retrieved if the id and rev are known.

Function Parameters

- **pFunk** (always required) Couch function being called; the leading underscore can be omitted, for example "all_docs"
 - a list is included below of functions that have been tested
 - there are four categories of functions: system, database, document, design document
- **pURL** (always required) the URL of the CouchDB installation, including "http://" and the port number if applicable
 - For example: "<http://192.168.23.42:5984/>"
 - With username/password: "<http://admin:trustno1@192.168.23.42:5984/>"
- **pDB** (required when acting on or retrieving from a database)
 - the name of the database being accessed
 - should be blank for system functions, must be included for database, document, and design document
- **pDocID** (for get and delete functions) the document "_id" being retrieved
 - should be blank for system and database functions, must be included for document and design document
 - use the pDocID param to specify the name of a design document being called
- **pDoc** - (for put and post functions) array containing the data being converted into a document for the database
 - should be blank for system functions
 - required for document and design document (also used in a db function)

- **pParams** - an array with any OPTIONAL parameters, with the parameter as a key.
 - These parameters are specified in the CouchDB API
 - For example: to download documents when running the `_all_docs` function, and limit the list to only 10 records:
 - `put true into pParams["include_docs"]`
 - `put 10 into pParams["limit"]`
 - Example, to include the revision number for a document
 - `put "13-8j4f9438jf3498j98fy39d23d" into pParams["rev"]`
- **pOptions** - (optional) header options, including authentication, config values and return format
 - For Design Documents, use the following options:
 - `pOptions["ddoc"]["func"]` for the function being called (info, view, show, list, update)
 - `pOptions["ddoc"]["name"]` for the name of the specific function programmed in the ddoc
 - `pOptions["ddoc"]["otherid"]` and `pOptions["ddoc"]["otherfunc"]` for further extended URLs
 - For Authentication, use the following options:
 - `pOptions["authtype"]` for the type of authentication being used, valid values:
 - "login" - default value if blank, must be in the format username:password
 - "encoded" - base64 encoded version of username:password
 - "cookie" - cookie-based login
 - `pOptions["authval"]` with the login, encoded login or cookie value
 - To set the return format:
 - `pOptions["format"]` with a valid format value (array, rawjson, prettyjson)
 - When setting `_config` values:
 - `pOptions["key"]` with the key to be set

- pOptions["value"] with the value to set it to
- When PUTting an attachment (using the "attach" function):
 - pOptions["attachname"] with the file name to be used in CouchDB
 - pOptions["attachpath"] with the full path to the file being uploaded
 - pOptions["attachmode"] with "bin" or "text", "bin" will be used if left blank
 - pOptions["attachtype"] with the MIME content-type, for example "image/jpg" or "application/pdf"
 - If left blank, the script will attempt to fill in an applicable type
- When PUTting an attachment (inline):
 - Repeat for each file to be included
 - pOptions["attachments"][filename]["path"] with the full file path of the file to be uploaded
 - pOptions["attachments"][filename]["mime"] with the MIME content-type of the file
 - pOptions["attachments"][filename]["mode"] with "bin" or "text", with "bin" used as default
- When GETting an attachment:
 - pOptions["attachment"] with the file name in DB
 - pOptions["destination"] with the destination location (include filename)

Other Functions/Parameters

couch.getrev(pURL, pDB, pDocID, pOptions)

This function returns the most recent revision number for the specified document.

couch.securedb(pFunk, pURL, pDB, pOptions, pAdminNames, pAdminRoles, pMemberNames, pMemberRoles)

The couch.securedb function sets the "_security" document for

the specified database.

- pFunk - "set" (replace current security), "add" adds user/roles to existing security, "delete" removes user/roles from existing
- pAdminNames: sets the given names up with admin rights (read,write,delete all)
- pAdminRoles: sets the given user roles up with admin rights (read,write,delete all)
- pMemberNames: sets the given names up with member rights (read, write documents/read design documents)
- pMemberRoles: sets the given user roles up with member rights (read, write documents/read design documents)

couch.adduser(pURL, pUser, pPass, pOptions, pAddDB)

The couch.adduser function inserts a new record into the "_users" database, optionally creates a database for the user, and sets the new user as the admin and member (which makes that user the only one who can access it).

- pUsername: Username of the person signing up.
- pPassword: Password for the account
- pOptions["roles"]: can be used to assign the user to roles, must be in a numbered array
- pAddDB: if true, adds a database with the user's name and secures it
- Note: only an admin can create a user

couch.peruserDB(pUsername)

Requires "couchperuser" to be installed (<https://github.com/etrepum/couchperuser>) The couch.peruserDB function returns the database name associated with the username specified.

Authentication:

if the CouchDB URL requires authentication, it can be achieved in one of two ways:

- 1 Include the username and password as part of the URL, for

example:

- ["http://admin:passw0rd@192.168.0.42:5984/"](http://admin:passw0rd@192.168.0.42:5984/)
- 2 Use the pOptions parameter, and the script will encode the username and password into the httpheaders:
 - put "admin:passw0rd" into pOptions["authval"]
 - put "login" into pOptions["authtype"]
- 3 Use the pOptions parameter with a base 64 encoded username:password, which will be added to the httpheaders:
 - for example, put base64encode("username:password") will yield the string dXNlcm5hbWU6cGFzc3dvcmQ=
 - put "dXNlcm5hbWU6cGFzc3dvcmQ=" into pOptions["authval"]
 - put "encoded" into pOptions["authtype"]
- 4 Use cookies/sessions...
 - First get cookie by posting username and password to sessions
 - put "admin" into pDoc["name"]
 - put "passw0rd" into pDoc["password"]
 - put couch.post("session",tURL,,pDoc) into theCookie
 - Store it somewhere. For each subsequent call, send theCookie in pOptions
 - put theCookie into pOptions["authval"]
 - put "cookie" into pOptions["authtype"]

Adding Attachments

- * Files can be attached to documents inline or through the standalone API
- * In order to properly view a document online (e.g. - through a CouchApp) the proper MIME-Type needs to be specified
- * To use the standalone API:
 - * Must specify the revision number in pParams["rev"]
 - * Each attachment needs to be added seperately
 - * Use these options:
 - * pOptions["attachname"] - name of the file as

saved to the document

- * pOptions["attachpath"] - path to the file
- * pOptions["attachmode"] - binary or text
- * pOptions["attachtype"] - MIME type (will try to generate if blank)

* To add documents inline:

- * Use the options" pOptions["attachments"] with a separate key for each file
- * If the document exists, the entire document needs to be reuploaded

Return Format

- * include pOptions["format"] with "array", "rawjson" or "prettyjson" for the return format
- * the stack can have a customProperty called "preferredFormat" which can be one of those three values,
- * if pOptions["format"] is blank, then "preferredFormat" will be used
- * if neither has a value, then "array" will be used

To-Do List (Extra functions)

- Couch based message queueing system
- Daybed Toolbox
- More backendian services

Main Functions: Examples

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/

GET / Returns the welcome message and version information

```
put "http://127.0.0.1:5984/" into tURL
put couch.get(slash,tURL)
```


`/_active_tasks`

GET `/_active_tasks` Obtains a list of the tasks running in the server

```
put "http://127.0.0.1:5984/" into tURL
put couch.get(active_tasks,tURL)
```

`/_all_dbs`

GET `/_all_dbs` Returns a list of all the databases

```
put "http://127.0.0.1:5984/" into tURL
put couch.get(all_dbs,tURL)
```

`/_config`

GET `/_config` Obtains a list of the entire server configuration

```
put "http://127.0.0.1:5984/" into tURL
put couch.get(config,tURL)
```

`/_config/{section}`

GET `/_config/{section}` Returns all the configuration values for the specified section

```
put "http://127.0.0.1:5984/" into tURL
put "uuids" into tOptions["section"]
put couch.get(config,tURL,,,,tOptions)
```

`/_config/{section}/{key}`

GET `/_config/{section}/{key}` Returns a specific section/configuration value

```
put "http://127.0.0.1:5984/" into tURL
put "uuids" into tOptions["section"]
put "algorithm" into tOptions["key"]
put couch.get(config,tURL,,,,tOptions)
```

PUT `/_config/{section}/{key}` Sets the specified configuration value

```
put "http://127.0.0.1:5984/" into tURL
put "uuids" into tOptions["section"]
put "algorithm" into tOptions["key"]
put "random" into tOptions["value"]
put couch.put(config,tURL,,,,tOptions)
```

DELETE `/_config/{section}/{key}` Removes the current

setting

```
put "http://127.0.0.1:5984/" into tURL
put "uuids" into tOptions["section"]
put "algorithm" into tOptions["key"]
put couch.delete(config,tURL,,,,tOptions)
```

/_db_updates

GET /_db_updates Return the server changes of databases

```
put "http://127.0.0.1:5984/" into tURL
put couch.get("db_updates",tURL)
```

/_log

GET /_log Returns the server log file

```
put "http://127.0.0.1:5984/" into tURL
put couch.get(log,tURL)
```

/_replicate

POST /_replicate Starts or cancels the replication

```
put "http://127.0.0.1:5984/" into tURL
put "test1" into tDoc["source"]
put "http://192.168.42.23:5984/test2" into
tDoc["target"]
put couch.post(restart,tURL,,tDoc)
```

/_restart

POST /_restart Restarts the server

```
put "http://127.0.0.1:5984/" into tURL
put couch.post(restart,tURL)
```

/_session

GET /_session Returns Cookie-based login user information

```
put "http://127.0.0.1:5984/" into tURL
put couch.get("session",tURL) into tInfo
```

POST /_session Authenticates user by Cookie-based user login

```
put "http://127.0.0.1:5984/" into tURL
put "admin" into pDoc["name"]
put "passw0rd" into pDoc["password"]
```

```
    put couch.post("session",tURL,,pDoc) into  
theCookie  
    ---returns a string with the cookie in it
```

DELETE `/_session` Logout Cookie-based user

```
    put "http://127.0.0.1:5984/" into tURL  
    put couch.delete("session",tURL) into tInfo
```

`/_stats`

GET `/_stats` Returns server statistics

```
    put "http://127.0.0.1:5984/" into tURL  
    put couch.get(stats,tURL)
```

`/_uuids`

GET `/_uuids` Generates a list of UUIDs from the server

```
    put "http://127.0.0.1:5984/" into tURL  
    put couch.get(uuids,tURL)
```

DATABASE API

`/_{db}`

GET `/_{db}` Returns the database information

```
    put "http://127.0.0.1:5984/" into tURL  
    put "testdb" into tDB  
    put couch.get(db,tURL,tDB)
```

POST `/_{db}` Creates a new document with generic ID if
he had not specified

```
    put "http://127.0.0.1:5984/" into tURL  
    put "testdb" into tDB  
    put "somedata" into tDoc["somekey"]  
    put "otherdata" into tDoc["otherkey"]  
    put couch.post(db,tURL,tDB,tDoc)
```

PUT `/_{db}` Creates a new database

```
    put "http://127.0.0.1:5984/" into tURL  
    put "testdb" into tDB  
    put couch.put(db,tURL,tDB)
```

DELETE `/_{db}` Deletes an existing database

```
    put "http://127.0.0.1:5984/" into tURL  
    put "testdb2" into tDB
```

```
put couch.delete(db,tURL,tDB)
```

```
/{{db}}/_all_docs
```

GET /{{db}}/_all_docs Returns a built-in view of all documents in this database

```
put "http://127.0.0.1:5984/" into tURL
```

```
put "testdb" into tDB
```

```
put couch.get(all_docs,tURL,tDB)
```

POST /{{db}}/_all_docs Returns certain rows from the built-in view of all documents

```
put "http://127.0.0.1:5984/" into tURL
```

```
put "testdb" into tDB
```

```
put "c3f2c12bc8c242826e1849097900091d" into
```

```
tDocIDs["keys"][1]
```

```
put "c3f2c12bc8c242826e1849097900358d" into
```

```
tDocIDs["keys"][2]
```

```
put couch.post(all_docs,tURL,tDB,tDocIDs)
```

```
/{{db}}/_bulk_docs
```

POST /{{db}}/_bulk_docs Inserts or updates multiple documents in to the database in a single request

```
put "http://127.0.0.1:5984/" into tURL
```

```
put "testdb" into tDB
```

```
put "somedata" into tDoc[1]["somekey"]
```

```
put "otherdata" into tDoc[1]["otherkey"]
```

```
put "somedata2" into tDoc[2]["somekey"]
```

```
put "otherdata2" into tDoc[2]["otherkey"]
```

```
put couch.post(bulk_docs,tURL,tDB,tDoc) into tZZZ
```

```
/{{db}}/_changes
```

GET /{{db}}/_changes Returns changes for the given database

```
put "http://127.0.0.1:5984/" into tURL
```

```
put "testdb" into tDB
```

```
put couch.get(changes,tURL,tDB)
```

POST /{{db}}/_changes Returns changes for the given database for certain document IDs

```
put "http://127.0.0.1:5984/" into tURL
```

```
put "testdb" into tDB
```

```
put "c3f2c12bc8c242826e1849097900091d" into
```

```
tDocIDs["doc_ids"][1]
```

```

    put "c3f2c12bc8c242826e1849097900358d" into
tDocIDs["doc_ids"][2]
    put couch.post(changes,tURL,tDB,tDocIDs)

/{db}/_compact
POST /{db}/_compact Starts a compaction for the
database
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.post(compact,tURL,tDB)

/{db}/_compact/{ddoc}
POST /{db}/_compact/{ddoc} Starts a compaction for
all the views in the selected design document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc" into tDocID
    put couch.post(compactdesign,tURL,tDB,tDocID)

/{db}/_ensure_full_commit
POST /{db}/_ensure_full_commit Makes sure all
uncommitted changes are written and synchronized to the
disk
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.post(ensure_full_commit,tURL,tDB)

/{db}/_local/{docid}
GET /{db}/_local/{docid} Returns the latest revision
of the non-replicated document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "0dc77cd3-389b-43c1-aef4-e2a5a31eef72" into
tDocID
    put couch.get("localdoc",tURL,tDB,tDocID)

PUT /{db}/_local/{docid} Inserts a new version of the
non-replicated document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "somedata" into tDoc["somekey"]

```

```
put "otherdata" into tDoc["otherkey"]
put couch.put("localdoc",tURL,tDB,tDoc)
```

DELETE `/{{db}}/_local/{docid}` Deletes the non-replicated document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "0dc77cd3-389b-43c1-aef4-e2a5a31eef72" into
tDocID
put "1-e0af530ae2775044d7b2db4c91cc18a1" into
tParams["rev"]
put
couch.delete("localdoc",tURL,tDB,tDocID,tParams)
```

`/{{db}}/_missing_revs`

POST `/{{db}}/_missing_revs` By given list of document revisions, returns the document revisions that do not exist in the database

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "c3f2c12bc8c242826e1849097900091d" into tID
put "3-b06fcd1c1c9e0ec7c480ee8aa467bf3b" into
tDoc[tID][1]
put "4-0e871ef78849b0c206091f1a7af6ec41" into
tDoc[tID][1]
put couch.post("missings_revs",tURL,tDB,tDocIDs)
```

`/{{db}}/_purge`

POST `/{{db}}/_purge` Purges some historical documents entirely from database history

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "c3f2c12bc8c242826e1849097900091d" into tID
put "4-dc8088c3be9d44b41f87ba1470064672" into
tDoc[tID][1]
put couch.post(purge,tURL,tDB,tDoc)
```

`/{{db}}/_revs_diff`

POST `/{{db}}/_revs_diff` By given list of document revisions, returns differences between the given revisions and ones that are in the database

```

    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "c3f2c12bc8c242826e1849097900091d" into tID
    put "3-b06fcd1c1c9e0ec7c480ee8aa467bf3b" into
tDoc[tID][1]
    put "4-0e871ef78849b0c206091f1a7af6ec41" into
tDoc[tID][1]
    put couch.post("revs_diff",tURL,tDB,tDocIDs)

```

`/{{db}}/_revs_limit`

GET `/{{db}}/_revs_limit` Returns the limit of historical revisions to store for a single document in the database

```

    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.get(revs_limit,tURL,tDB)

```

PUT `/{{db}}/_revs_limit` Sets the limit of historical revisions to store for a single document in the database

```

    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.put(revs_limit,tURL,tDB,500)

```

`/{{db}}/_security`

GET `/{{db}}/_security` Returns the special security object for the database

```

    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.get(security,tURL,tDB)

```

PUT `/{{db}}/_security` Sets the special security object for the database

```

    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "uber" into tDoc["admins"]["names"][1]
    put "admins" into tDoc["admins"]["roles"][1]
    put "user" into tDoc["members"]["names"][1]
    put "developer" into tDoc["members"]["roles"][1]
    put couch.put(security,tURL,tDB,tDoc)

```

`/{{db}}/_temp_view`

POST `/{{db}}/_temp_view` Executes a given view function for

```

all documents and returns the result
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "function(doc) { if (doc.value)
{ emit(doc.value, null); } }" into tDoc["map"]
    put "_count" into tDoc["_reduce"]
    put couch.post("temp_view",tURL,tDB,tDoc)

/{db}/_view_cleanup
POST /{db}/_view_cleanup Removes view files that are
not used by any design document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put couch.post("view_cleanup",tURL,tDB)

```

DOCUMENT API

```

/{db}/{docid}
GET /{db}/{docid}Returns the documentrr
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "0dc77cd3-389b-43c1-aef4-e2a5a31eef72" into
tDocID
    put couch.get(doc,tURL,tDB,tDocID)
PUT /{db}/{docid}Creates a new document, or new version
of an existing document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "somedata" into tDoc["somekey"]
    put "otherdata" into tDoc["otherkey"]
    put couch.put(doc,tURL,tDB,tDoc)
DELETE /{db}/{docid} Deletes the document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "0dc77cd3-389b-43c1-aef4-e2a5a31eef72" into
tDocID
    put "1-e0af530ae2775044d7b2db4c91cc18a1" into
tParams["rev"]
    put couch.delete(doc,tURL,tDB,tDocID,tParams)

/{db}/{docid}/{attname}

```


GET `/ {db} / {docid} / {attname}` Gets the attachment of a document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "thisdoc" into tDocID
put "my_cat.jpg" into tOptions["attachment"]
put couch.get(attach,tURL,tDB,tDocID)
```

PUT `/ {db} / {docid} / {attname}` Adds an attachment of a document

```
put "http://127.0.0.1:5984/" into tURL
put "test_suite_db2" into tDB
put "zxs3324d" into tOptions["docid"]
put "my_cat.jpg" into tOptions["attachname"]
put "1-465aa47fc9a072e79d5898a3257acb4c" into
tParams["rev"]
put "/User/pink/testdata/my_cat.jpg" into
tOptions["attachpath"]
put "image/jpeg" into tOptions["attachtype"]
put "bin" into tOptions["attachmode"]
put couch.get(attach,tURL,tDB)
```

DELETE `/ {db} / {docid} / {attname}` Deletes an attachment of a document

```
put "http://127.0.0.1:5984/" into tURL
put "test_suite_db2" into tDB
put "zxs3324d" into tDocID
put "my_cat.jpg" into tOptions["attachment"]
put "1-465aa47fc9a072e79d5898a3257acb4c" into
tParams["rev"]
put couch.delete(attach,tURL,tDB,tDocID)
```

DESIGN DOCUMENT API

`/ {db} / _design / {ddoc}`

GET `/ {db} / _design / {ddoc}` Returns the design document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "testdoc" into tDocID
put couch.get(design,tURL,tDB,tDocID)
```

PUT `/ {db} / _design / {ddoc}` Creates a new design

```

document, or new version of an existing one
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc2" into pDoc["_id"]
    put "javascript" into pDoc["language"]
    put "function(doc) {"&cr&" emit(null,
doc);"&cr&"}" into pDoc["views"]["myquery"]["map"]
    put couch.put(design,tURL,tDB,pDoc)
DELETE /{db}/_design/{ddoc} Deletes the design
document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "myviewdoc" into tDocID
    put "1-e0af530ae2775044d7b2db4c91cc18a1" into
tParams["rev"]
    put couch.delete(design,tURL,tDB,tDocID,tParams)

/{db}/_design/{ddoc}/_info
GET /{db}/_design/{ddoc}/_info Returns view index
information for the specified design document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc" into tDocID
    put "info" into tOptions["ddoc"]["func"]
    put couch.get(design,tURL,tDB,tDocID,tOptions)
into zzz

/{db}/_design/{ddoc}/_list/{func}/{other-ddoc}/{view}
GET /{db}/_design/{ddoc}/_list/{func}/{other-ddoc}/
{view} Executes a list function against the view from
other design document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc" into tDocID
    put "list" into tOptions["ddoc"]["func"]
    put "myspeciallist" into tOptions["ddoc"]["name"]
    put "otherdoc" into tOptions["ddoc"]["otherdoc"]
    put "view" into tOptions["ddoc"]["otherfunc"]
    put couch.get(design,tURL,tDB,tDocID,tOptions)
into zzz

```

POST /{db}/_design/{ddoc}/_list/{func}/{other-ddoc}/
{view}

The same as **GET**

/{db}/_design/{ddoc}/_list/{func}/{view}

GET /{db}/_design/{ddoc}/_list/{func}/{view} Executes
a list function against the view from the same design
document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "testdoc" into tDocID
put "list" into tOptions["ddoc"]["func"]
put "myspeciallist" into tOptions["ddoc"]["name"]
put "view" into tOptions["ddoc"]["otherdoc"]
put couch.get(design,tURL,tDB,tDocID,tOptions)
```

into zzz

POST /{db}/_design/{ddoc}/_list/{func}/{view}

The same as **GET**

/{db}/_design/{ddoc}/_show/{func}

GET /{db}/_design/{ddoc}/_show/{func} Executes a show
function against null document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "testdoc" into tDocID
put "show" into tOptions["ddoc"]["func"]
put "myshowfunc" into tOptions["ddoc"]["name"]
put couch.get(design,tURL,tDB,tDocID,tOptions)
```

into zzz

POST /{db}/_design/{ddoc}/_show/{func}

The same as **GET**

/{db}/_design/{ddoc}/_show/{func}/{docid}

GET /{db}/_design/{ddoc}/_show/{func}/{docid} Executes
a show function against the specified document

```
put "http://127.0.0.1:5984/" into tURL
put "testdb" into tDB
put "testdoc" into tDocID
put "show" into tOptions["ddoc"]["func"]
put "myshowfunc" into tOptions["ddoc"]["name"]
put "4743824238423947234984" into tOptions["ddoc"]
```

```

["othername"]
    put couch.get(design,tURL,tDB,tDocID,tOptions)
into zzz
POST /{db}/_design/{ddoc}/_show/{func}/{docid}
    The same as GET

/{db}/_design/{ddoc}/_update/{func}
POST /{db}/_design/{ddoc}/_update/{func}    Executes an
update function
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "updatedoc" into tOptions["docid"]
    put "update" into tOptions["ddoc"]["func"]
    put "myupdatefunc" into tOptions["ddoc"]["name"]
    put couch.post(design,tURL,tDB,,tOptions) into zzz

/{db}/_design/{ddoc}/_update/{func}/{docid}
PUT /{db}/_design/{ddoc}/_update/{func}/{docid}
Executes an update function against the specified
document
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc" into tDocID
    put "update" into tOptions["ddoc"]["func"]
    put "myview" into tOptions["ddoc"]["name"]
    put "ssdd98r98t443e" into tOptions["ddoc"]
["otherdoc"]
    put couch.put(design,tURL,tDB,tDocID,tOptions)
into zzz

/{db}/_design/{ddoc}/_view/{view}
GET /{db}/_design/{ddoc}/_view/{view}    Returns results
for the specified stored view
    put "http://127.0.0.1:5984/" into tURL
    put "testdb" into tDB
    put "testdoc" into tDocID
    put "view" into tOptions["ddoc"]["func"]
    put "myview" into tOptions["ddoc"]["name"]
    put couch.get(design,tURL,tDB,tDocID,tOptions)
into zzz

```

```
POST /{db}/_design/{ddoc}/_view/{view} Returns certain
rows for the specified stored view
  put "http://127.0.0.1:5984/" into tURL
  put "testdb" into tDB
  put "testdoc" into tOptions["docid"]
  put "view" into tOptions["ddoc"]["func"]
  put "myview" into tOptions["ddoc"]["name"]
  put "case0001" into tDoc["keys"][1]
  put "case0002" into tDoc["keys"][2]
  put couch.post(design,tURL,tDB,tDoc,tOptions) into
zzz
```

```
/_{db}/_design/{ddoc}/{attname}
GET /{db}/_design/{ddoc}/{attname} Gets the attachment
of a design document
  put "http://127.0.0.1:5984/" into tURL
  put "testdb" into tDB
  put "thisddoc" into tDocID
  put "my_cat.jpg" into tOptions["attachment"]
  put couch.get(design,tURL,tDB,tDocID)
```

```
PUT /{db}/_design/{ddoc}/{attname} Adds an attachment of
a design document
  put "http://127.0.0.1:5984/" into tURL
  put "test_suite_db2" into tDB
  put "_design/mydesigndoc" into tOptions["docid"]
  put "my_cat.jpg" into tOptions["attachname"]
  put "1-465aa47fc9a072e79d5898a3257acb4c" into
tParams["rev"]
  put "/User/pink/testdata/my_cat.jpg" into
tOptions["attachpath"]
  put "image/jpg" into tOptions["attachtype"]
  put "bin" into tOptions["attachmode"]
  put couch.get(attach,tURL,tDB)
```

```
DELETE /{db}/_design/{ddoc}/{attname} Deletes an
attachment of a design document
  put "http://127.0.0.1:5984/" into tURL
  put "test_suite_db2" into tDB
  put "myddoc" into tDocID
```

```
put "my_cat.jpg" into tOptions["attachment"]
put "1-465aa47fc9a072e79d5898a3257acb4c" into
tParams["rev"]
put couch.delete(design,tURL,tDB,tDocID)
```

Sync functions

madpink edited this page on Aug 12, 2017 · 16 revisions

The sync functions save all the data to a property set of an external/invisible stack for storage, and keeps the data in a property set on the main stack while the app is running.

The Sync commands:

dbdb.local.newuser *pURL pUser pPass pAuth pPrefix pOther pConflict pIDPrefix pApp*

This is the first command that needs to be run. It creates the save stack, saves all the necessary settings and creates the CouchDB user, user's database, installs the necessary design documents, and/or if there is already existing documents they are downloaded.

- *pURL* - the URL including port number of the CouchDB installation, e.g. <http://127.0.0.1:5984>
- *pUser* - User's username
- *pPass* - User's password
- *pAuth* - base64 encoded string for an administrator's username:password
- *pPrefix* - (optional) prefix of the database name, default: "user"
- *pOther* - (optional) array of other data to be saved in the user record (e.g. email address, secret question)
- *pConflict* - (optional) how to handle conflicting updates: server, local, or duplicate, default: "server"
 - server: server's copy wins conflict
 - local: local copy wins conflict

- duplicate: both copies are saved, one with a modified name
- pIDPrefix - (optional) prefix for the id number of each document, default: "user"
- pApp - (optional) application name for searches, default: the same as pIDPrefix

dbdb.stack.load *pFileName pStackName pMainFolder pSubFolder pPropSet*

Should be put in the "openStack" handler.

Opens save stack in the background and copies its contents to the main stack.

- pFileName - file name to use for the save stack
- pStackName - name of the stack (for saving)
- pMainFolder - (optional) the main folder or specialFolder that the save stack will be saved in. Defaults:
 - Mac and Windows: defaults to "support"
 - iOS and Android: defaults to "document"
 - Linux and HTML5: defaults to "home"
- pSubFolder - (optional) a folder to be created in the main folder for the save file, defaults to the short name of the stack
- pPropSet - (optional) name for the property set to save the data (useful for using the same data file for multiple apps), default: "daybedDB"

dbdb.stack.save *pStackName pPropSet*

Should be put at least in the "closeStack".

Copies the user data from the main stack to the save stack and saves it.

- pStackName - name of the save stack
- pPropSet - the same as the one used in the load command (if applicable)

dbdb.local.sync

Begins the sync process between the data saved in the local stack and the user's CouchDB database.

dbdb.local.setdoc *pDoc*

Saves a document to the main property set and flags it as either new or changed. pDoc - array containing the full document

dbdb.local.deletedoc *pDocID*

Loads and saves a document, flagging it as deleted. pDocID - ID number of the document

dbdb.local.getdoc *pDocID*

Loads a document from the main property set. pDocID - ID number of the document