



Java MongoDB : Save image example

By mkyong (<http://www.mkyong.com/author/mkyong/>) | May 11, 2011 | Updated : April 3, 2013 | Viewed : 94,316 times +111 pv/w

In this tutorial, we show you how to **save an image** file into MongoDB, via **GridFS API**. The GridFS APIs are able to serve other binary files as well, like video and music files.

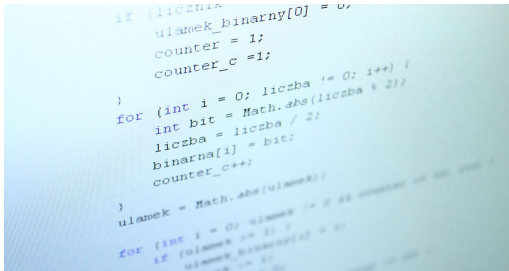
Note

For detail explanation, read this MongoDB GridFS manual (<http://docs.mongodb.org/manual/applications/gridfs/>).

1. Save image

Code snippets to save an image file into MongoDB, under "photo" namespace, and assign a new "filename" for the saved image.

```
String newFileName = "mkyong-java-image";
File imageFile = new File("c:\\JavaWebHosting.png");
GridFS gfsPhoto = new GridFS(db, "photo");
GridFSInputFile gfsFile = gfsPhoto.createFile(imageFile);
gfsFile.setFilename(newFileName);
gfsFile.save();
```



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2. Get image

Code snippets to get the saved image by its "filename".

```
String newFileName = "mkyong-java-image";
GridFS gfsPhoto = new GridFS(db, "photo");
GridFSDBFile imageForOutput = gfsPhoto.findOne(newFileName);
System.out.println(imageForOutput);
```


Output, the image is saved as following JSON format.

```
{
  "_id" :
  {
    "$oid" : "4dc9511a14a7d017fee35746"
  },
  "chunkSize" : 262144 ,
  "length" : 22672 ,
  "md5" : "1462a6cfa27669af1d8d21c2d7dd1f8b" ,
  "filename" : "mkyong-java-image" ,
  "contentType" : null ,
  "uploadDate" :
  {
    "$date" : "2011-05-10T14:52:10Z"
  },
  "aliases" : null
}
```



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3. Print all saved images

Code snippets to get all the saved files from MongoDB and iterate it with DBCursor.

```
GridFS gfsPhoto = new GridFS(db, "photo");
DBCursor cursor = gfsPhoto.getFileList();
while (cursor.hasNext()) {
    System.out.println(cursor.next());
}
```

4. Save into another image

Code snippets to get an image file from MongoDB and output it to another image file.

```
String newFileName = "mkyong-java-image";
GridFS gfsPhoto = new GridFS(db, "photo");
GridFSDBFile imageForOutput = gfsPhoto.findOne(newFileName);
imageForOutput.writeTo("c:\\JavaWebHostingNew.png"); //output to new file
```

5. Delete image

Code snippets to delete an image file.

```
String newFileName = "mkyong-java-image";
GridFS gfsPhoto = new GridFS(db, "photo");
gfsPhoto.remove(gfsPhoto.findOne(newFileName));
```

Full Example

Full example to work with image, via **Java MongoDB GridFS API**. See comments for explanation.

```
package com.mkyong.core;

import java.io.File;
import java.io.IOException;
import java.net.UnknownHostException;
import com.mongodb.DB;
import com.mongodb.DBCollection;
import com.mongodb.DBCursor;
import com.mongodb.Mongo;
import com.mongodb.MongoException;
import com.mongodb.gridfs.GridFS;
import com.mongodb.gridfs.GridFSDBFile;
import com.mongodb.gridfs.GridFSInputFile;

/**
 * Java MongoDB : Save image example
 *
 */

public class SaveImageApp {
    public static void main(String[] args) {

        try {

            Mongo mongo = new Mongo("localhost", 27017);
            DB db = mongo.getDB("imagedb");
            DBCollection collection = db.getCollection("dummyColl");

            String newFileName = "mkyong-java-image";

            File imageFile = new File("c:\\JavaWebHosting.png");

            // create a "photo" namespace
            GridFS gfsPhoto = new GridFS(db, "photo");

            // get image file from local drive
            GridFSInputFile gfsFile = gfsPhoto.createFile(imageFile);

            // set a new filename for identify purpose
            gfsFile.setFilename(newFileName);

            // save the image file into mongoDB
            gfsFile.save();

            // print the result
            DBCursor cursor = gfsPhoto.getFileList();
            while (cursor.hasNext()) {
                System.out.println(cursor.next());
            }

            // get image file by it's filename
            GridFSDBFile imageForOutput = gfsPhoto.findOne(newFileName);

            // save it into a new image file
            imageForOutput.writeTo("c:\\JavaWebHostingNew.png");

            // remove the image file from mongoDB
            gfsPhoto.remove(gfsPhoto.findOne(newFileName));

            System.out.println("Done");

        } catch (UnknownHostException e) {
            e.printStackTrace();
        } catch (MongoException e) {
            e.printStackTrace();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}
```

At the end of the program, a new image file is created in "c:\\JavaWebHostingNew.png".

Reference

1. MongoDB GridFS Specification (<http://docs.mongodb.org/manual/applications/gridfs/>)

Tags : [image \(http://www.mkyong.com/tag/image/\)](http://www.mkyong.com/tag/image/) [mongodb \(http://www.mkyong.com/tag/mongodb/\)](http://www.mkyong.com/tag/mongodb/)

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mkyong

Founder of Mkyong.com (<http://mkyong.com>), love Java and open source stuff. Follow him on Twitter (<https://twitter.com/mkyong>), or befriend him on Facebook (<http://www.facebook.com/java.tutorial>) or Google Plus (<https://plus.google.com/110948163568945735692?rel=author>). If you like my tutorials, consider make a donation to these charities (<http://www.mkyong.com/blog/donate-to-charity/>).

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

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Pradeep Kumar Reddy

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Ose Abunaw

I love this guy. He has helped me in so many ways and does not even know it.



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dfdffd



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Guest

Gaurav Ashara

Great article , but i have some question.I have web application in which i have facility any if user can download gridfs file. If i store my gridfs file using WrtieTo method in server side folder and user can download it.I think it is not right way. Plz suggest me some approach for this .

Thank you very much



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Guest

Dharshan

Great article to get started on GridFS. Here are some reasons you want to use GridFS on MongoDB – <http://blog.mongodirector.com/when-to-use-gridfs/> (<http://blog.mongodirector.com/when-to-use-gridfs/>)



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Guest

Majid Lotfi

Thanks lot, this is a nice tutorial, can you please show me how to use this technic as a web application, so the user can see a Pinterest page showing the latest (last images saved) first ?

thanks lot.



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Guest

Manohar

Please reply soon... Its urgent!!! I am getting a run time error like this— Exception in thread "main" java.lang.NoClassDefFoundError: com/mongodb/MongoException at java.lang.Class.getDeclaredMethods0(Native Method) at java.lang.Class.privateGetDeclaredMethods(Unknown Source) at java.lang.Class.getMethod0(Unknown Source) at java.lang.Class.getMethod(Unknown Source) at sun.launcher.LauncherHelper.getMainMethod(Unknown Source) at sun.launcher.LauncherHelper.checkAndLoadMain(Unknown Source) Caused by: java.lang.ClassNotFoundException: com.mongodb.MongoException at java.net.URLClassLoader\$1.run(Unknown Source) at java.net.URLClassLoader\$1.run(Unknown Source) at java.security.AccessController.doPrivileged(Native Method) at java.net.URLClassLoader.findClass(Unknown Source) at java.lang.ClassLoader.loadClass(Unknown Source) at sun.misc.Launcher\$AppClassLoader.loadClass(Unknown Source) at java.lang.ClassLoader.loadClass(Unknown Source) ... 6 more Please HELP Thanks in advance!!!



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ajit

This is too good. I am loving this tutorial. No one has posted so simple tutorial of mongoDB.Thanks mkyong my saviour.

Guest



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Jitendra

It is very nice tutorial.

I want to execute query:

some of two fields should less than or equal to current date.

How we can do that?

I put below query but it didn't work. Can you please suggest?

List savedUser2 = mongoOperation.find(

```
new Query(Criteria.where("(cachettl + create_time").lte(System.currentTimeMillis()), com.mkyong.user.EventListner.class, "events");
```

Guest



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Kev Ng

That's wonderful and very simple.

Thank you !

Guest



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Majid Azimi

Awesome tutorial. Simple and effective...

Guest



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API. Note For detail explanation, read this ... [...]

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cmdr

Hi

How can we perform the same operations using the spring data api.

Regards

Guest



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Banu

How to add additional meta data in fs.files using GridFS ?

Guest




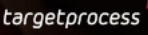
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