

# GrouperShell (gsh) Stem insert/update/delete (StemSave)

<a href="#">Wiki Home</a>	<a href="#">Grouper Release Announcements</a>	<a href="#">Grouper Guides</a>	<a href="#">Grouper Deployment Guide</a>	<a href="#">Community Contributions</a>	<a href="#">Internal Developer Resources</a>
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Use this class to insert or update a stem

Sample call

```
StemSave stemSave = new StemSave(grouperSession).assignName("test")
    .assignCreateParentStemsIfNotExist(true).assignDisplayName("test")
    .assignDescription("testDescription");
Stem stem = stemSave.save();
System.out.println(stemSave.getSaveResultType()); // DELETE, INSERT, NO_CHANGE, or UPDATE
```

Sample to delete

```
new StemSave(grouperSession).assignUuid(stem.getId()).assignSaveMode(SaveMode.DELETE).save();
```

To edit just one field (the description) for an existing stem

```
new StemSave(grouperSession).assignUuid(stem.getId())
    .assignDisplayExtension("test1")
    .assignAlternateName("newAlternateName")
    .assignReplaceAllSettings(false).save();
```

Sample to delete folders in a folder, and be failsafe (log on which ones error)

```
String parentStemName = "test:poc";
GrouperSession grouperSession = GrouperSession.startRootSession();
Stem parentStem = StemFinder.findByName(grouperSession, parentStemName, true);
for (Stem stem : parentStem.getChildStems()) {
    try {
        new StemSave(grouperSession).assignUuid(stem.getId()).assignSaveMode(SaveMode.DELETE).
save();
    } catch (Exception e) {
        e.printStackTrace();
    }
}
```

## Options

Java docs: <https://software.internet2.edu/grouper/doc/2.5.x/grouper/apidocs/edu/internet2/middleware/grouper/StemSave.html>