

mongoose 更新数据发生冲突 MongoError: Performing an update on the path '""'\_id'"" would modify the immutable field '""'\_id'

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使用Node.js库mongoose操作MongoDB遇到的问题

## 报错日志

```
MongoError: Performing an update on the path '_id' would modify the immutable field '_id'
  at Connection.<anonymous> (D:\Joey\dev\LocalLibrary\node_modules\mongodb\lib\core\connection\pool.js:460:61)
  at Connection.emit (events.js:198:13)
  at processMessage (D:\Joey\dev\LocalLibrary\node_modules\mongodb\lib\core\connection\connection.js:368:10)
  at Socket.<anonymous> (D:\Joey\dev\vscode\LocalLibrary\node_modules\mongodb\lib\core\connection\connection.js:537:15)
  at Socket.emit (events.js:198:13)
  at addChunk (_stream_readable.js:288:12)
  at readableAddChunk (_stream_readable.js:269:11)
  at Socket.Readable.push (_stream_readable.js:224:10)
  at TCP.onStreamRead [as onread] (internal/stream_base_commons.js:94:17)
```

## 依赖版本

```
"mongoose": "^5.7.13"
```

## 调试代码

```
const book = new Book({
  title: req.body.title,
  author: req.body.author,
  summary: req.body.summary,
  isbn: req.body.isbn,
  genre: (typeof req.body.genre === 'undefined') ? [] : req.body.genre
})

console.log('----->', book)

console.log('id----->', req.params.id)

Book.findByIdAndUpdate(req.params.id, book, {}, function (err, thebook) {
  if (err) { return next(err) }
  res.redirect(thebook.url)
})
```

## 输出

```
book-----> { genre: [ 5de4ef45e8e406006434529c, 5de4ef45e8e406006434529e ],
  _id: 5de6527468794d2c9ccabadf,
  title: '朝花夕拾',
  author: 5de4ef45e8e40600643452a1,
  summary:
  '本书是一本具有鲜明的个性色彩的散文集。适性任隋、洒脱不羁，想说就说，想骂就骂，心中的种
  爱憎悲
  欢，任其在笔下自然流泻。抒情、叙事和议论融为一体，优美和谐，朴实感人。'
```

```
isbn: '9787514370829' }  
id-----> 5de4ef45e8e40600643452a7
```

在创建Book之后就有了 `_id` 字段，不知是怎么来的，与更新目标的 `_id` 字段不一致，而该字段是不可改的，因此操作失败

## 解决办法：

创建Book的时候把要更新的文档的 `_id` 塞进去

```
const book = new Book({  
  _id: req.params.id,  
  title: req.body.title,  
  author: req.body.author,  
  summary: req.body.summary,  
  isbn: req.body.isbn,  
  genre: (typeof req.body.genre === 'undefined') ? [] : req.body.genre  
})
```