

## BIBD Merchant Portal - Bug #16602

### [MW-2][BE] Poor Error Handling

30 May 2023 04:35 PM - Nor Khairun Aqila Jesmen

|  |                          |                        |              |
|--|--------------------------|------------------------|--------------|
| <b>Status:</b>   | Closed                   | <b>Start date:</b>     | 13 June 2023 |
| <b>Priority:</b>   | High                     | <b>Due date:</b>       | 20 June 2023 |
| <b>Assignee:</b>   | Nor Khairun Aqila Jesmen | <b>% Done:</b>         | 100%         |
| <b>Category:</b>   |                          | <b>Estimated time:</b> | 0.00 hour    |
| <b>Target version:</b>   |                          | <b>Spent time:</b>     | 0.00 hour    |
| <b>Description</b>   |                          |                        |              |
| Description:<br>The application returns error message containing stack traces. If reproduced, some error conditions can lead to default error pages generated by the server. |                          |                        |              |
| Fixes:<br>Create 1 customize error message screen for any default error messages. BIBD to advise the error message   |                          |                        |              |
| Apply all fixes to both System Owner and Partner   |                          |                        |              |

### History

#### #1 - 26 June 2023 11:41 AM - Nur Azza Syazwany Azizol

- File MW-2 Fixes.docx added
- Status changed from New to Resolved
- Assignee changed from Nur Azza Syazwany Azizol to Nor Khairun Aqila Jesmen
- % Done changed from 0 to 100

Modify web.xml:

1. Add

```
<error-page>
<error-code>400</error-code>
<location>/cc_iam/WEB-INF/vm/400.vm</location>
</error-page>
```

```
<error-page>
<error-code>404</error-code>
<location>/cc_iam/WEB-INF/vm/404.vm</location>
</error-page>
```

```
<error-page>
<error-code>500</error-code>
<location>/cc_iam/WEB-INF/vm/500.vm</location>
</error-page>
```

2. Add ServerInfo.properties in new created folder(s) org/apache/catalina/util

3. Enable httpHeaderSecurity

4. Add hstsEnabled

```
<init-param>
<param-name>hstsEnabled</param-name>
<param-value>true</param-value>
</init-param>
```

5. Enable filter-mapping httpHeaderSecurity

6. Add in session-config section

```
<cookie-config>
<http-only>true</http-only>
<secure>true</secure>
</cookie-config>
```

Reference:

1. <https://docs.bmc.com/docs/security/basic-tomcat-security-configuration-recommendations-924057229.html>
2. <https://eliarms.medium.com/how-to-implement-httponly-and-secure-cookie-in-web-servers-ebad20427b94>

**#2 - 26 June 2023 11:48 AM - Nur Azza Syazwany Azizol**

- File MW-2 Fixes v1.1.docx added

Attached updated document v1.1

**#3 - 26 June 2023 12:09 PM - Nor Khairun Aqila Jesmen**

- Status changed from Resolved to In Progress
- Assignee changed from Nor Khairun Aqila Jesmen to Nur Azza Syazwany Azizol
- % Done changed from 100 to 80

To display customized screen when hit error 400,404,500

Error message either  
Invalid browser action

or  
Invalid browser action  
You have either clicked on the browser's back/forward button or refreshed the page, which is not allowed.  
For security reasons, we have logged you out and apologise for any inconvenience caused.

**#4 - 26 June 2023 02:09 PM - Nur Azza Syazwany Azizol**

- File MW-2 Fixes v1.2.docx added
- Status changed from In Progress to Resolved
- Assignee changed from Nur Azza Syazwany Azizol to Nor Khairun Aqila Jesmen
- % Done changed from 80 to 100

CHANGES (SYSTEM OWNER AND MERCHANT)

1. Create new ServerInfo.properties file in new created folder(s) /lib/org/apache/catalina/util to remove Tomcat version
1. Modify server.xml to display custom static error page for all different error context
  - Add ErrorReportValve in Host section
1. Modify web.xml:
  - Enable httpHeaderSecurity
  - Add hstsEnabled
  - Enable filter-mapping httpHeaderSecurity
  - Add cookie-config in session-config section

Reference:

1. <https://docs.bmc.com/docs/security/basic-tomcat-security-configuration-recommendations-924057229.html>
2. <https://eliarms.medium.com/how-to-implement-httponly-and-secure-cookie-in-web-servers-ebad20427b94>
3. <https://stackoverflow.com/questions/52814582/tomcat-is-not-redirecting-to-400-bad-request-custom-error-page>

#5 - 03 January 2024 10:44 AM - Nor Khairun Aqila Jesmen

- Status changed from Resolved to Closed

Closed

**Files**

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|                      |        |              |                          |
|----------------------|--------|--------------|--------------------------|
| MW-2 Fixes.docx      | 115 KB | 26 June 2023 | Nur Azza Syazwany Azizol |
| MW-2 Fixes v1.1.docx | 116 KB | 26 June 2023 | Nur Azza Syazwany Azizol |
| MW-2 Fixes v1.2.docx | 186 KB | 26 June 2023 | Nur Azza Syazwany Azizol |