Mobile-friendly EEE DQM reports

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Our participation to EEE

- The Liceo Scientifico “G.Galilei” of Ancona is in EEE Project since 2015
- We have specific curricula of Informatics during the first 4 years
- Our school is participating with about 60 students to EEE monitor activities and theoretical lessons of Physics and Astrophysics.
- We are currently collaborating with the Osservatorio Astronomico of Ancona for lessons and ASL activities in the framework of the EEE project
- We projected activities with cosmic box/muon detectors

Current situation

- EEE DQM report web pages are generated by e3pipe.
- It uses the HTML 4.01 standard that is very old (1999) and was superseded on 27 March 2018.
- It doesn’t render well on small screens (i.e. smartphone): very small text.

Proposed changes

- Upgrade to HTML5, current W3C Recommendation.
- Responsive web design: automatically adapts page content to the screen sizes.
- Pull Request #87 (centrofermi/e3pipe)

HTML5

- No visual changes (excluding the footer).
- Prerequisite for responsive design.

Upgrade to HTML5

html5 (#87)

Browse files

Luca Bassi committed 6 days ago

1 parent 9ba5a6c commit 7a5754b548f55e5b0459fc888ff91213c3de0722

Showing **4 changed files** with **9 additions** and **9 deletions**.

Unified | Split

```
162 -         return '[<font class="error">%s</font> / <font class="warning">%s</font>
    &ndash; <font class="warning">%s</font> / <font class="error">%s</font>]'%\
233 -             outputFile.image(img, width = '49%')
263 -         outputFile.write('\n<table width=100%>\n')
167 -             outputFile.image(img, width = '49%')
216 -         outputFile.write('\n<table width=100%>\n')
31  - <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN" "http://www.w3.org/TR/html4
    /strict.dtd">
36  - <meta http-equiv="content-type" content="text/html; charset=iso-8859-1">
57  - <a href="http://validator.w3.org/check?uri=referer">HTML 4.01 strict</a> and
58  - <a href="http://jigsaw.w3.org/css-validator/check/referer">css level 3</a>.<br>
```

```
162 +         return '[<span class="error">%s</span> / <span class="warning">%s</span>
    &ndash; <span class="warning">%s</span> / <span class="error">%s</span>]'%\
233 +             outputFile.image(img, style = 'width:49%', alt = 'plot')
263 +         outputFile.write('\n<table style="width:100%">\n')
167 +             outputFile.image(img, style = 'width:49%', alt = 'plot')
216 +         outputFile.write('\n<table style="width:100%">\n')
31  + <!DOCTYPE html>
36  + <meta charset="UTF-8">
57  + <a href="https://validator.w3.org/check?uri=referer">HTML5</a> and
58  + <a href="https://jigsaw.w3.org/css-validator/check/referer">css level 3</a>.<br>
```

Responsive web design

- Visual changes on small screens.

Responsive web design

html5 (#87)

Browse files

Luca Bassi committed 2 days ago

1 parent 7a5754b commit 2ae305811da261b5a2d9273d6333e90a5608b6f4

Showing **3 changed files** with **7 additions** and **5 deletions**.

Unified Split

```
+        outputFile.write('\n<div style="overflow-x:auto">\n')
```

```
-        outputFile.write('</table>\n<p></p>\n')
```

```
+        outputFile.write('</table>\n</div>\n<p></p>\n')
```

```
+ <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
```

```
-    width: 1000px;
```

```
+    max-width: 1000px;
```

```
-    height: 67px;
```

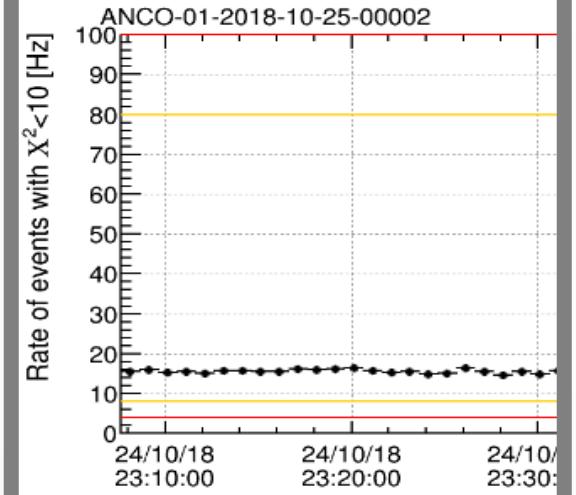
```
+    min-height: 67px;
```

```
-    width: 1000px;
```

```
+    max-width: 1000px;
```

Responsive web design

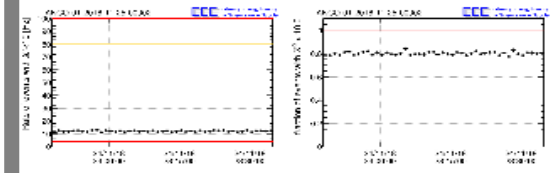
EEE DQM run report



Run summary

- DST file path: /home/analisi/tempNewAnalyz
- Unique run identifier: 2431400002
- Smallest event timestamp: 372812857.003 s
- Largest event timestamp: 372815146.981 s
- Run duration (largest - smallest timestamp):
- Total number of events: 45421

EEE DQM run report



Run summary

- DST file path: /home/analisi /tempNewAnalyzer2/ANCO-01-2018-11-25-00002_dst.root
- Unique run identifier: 2434500002
- Smallest event timestamp: 375493671.105 s UTC
- Largest event timestamp: 375496551.969 s UTC
- Run duration (largest - smallest timestamp): 2880.864 s
- Total number of events: 44230
- Number of events with hits: 43688
- Number of events with a track: 34987
- Number of "no hits" (GPS?) events: 542
- Number of "no hit" events: 542
- Number of malformed events: 0
- Number of events out of order: 1

Weather station

What’s next?

- Make the same upgrades to e3monitor.
- Add a troubleshooter to e3pipe.

Thank you for your attention.