**Testing and Evaluation**

This section will run few test on non-functional requirement to ensure deliveries meet standard requirement.

**Testing Protocol**

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| --- | --- | --- |
| No | Situation | Result |
| 1 | Visitor navigate to url for managing post without login in. For example, <http://localhost:1234/yokyo/posts/edit/history_of_archery> | Visitor will be redirect to login page |
| 2 | Another staff could not edit or delete post created by another staff | No edit and delete button appear |
| 3 | Staff navigate to url for registering new user | Staff will be redirected homepage |
| 4 | Staff use jpg for uploading sports icon | Website will return error message |
| 5 | Staff try to assign date other than 2nd to 8th August when creating events | Staff could assign other page as it was restricted in coding |
| 6 | Staff assigned two events with same date and same sports. | Timetable could only display 1 url to 1 event in 1 column. Timetable could not display second url. |
| 7 | User could cancel booking | Visitor will be redirected to timetable homepage, a message appear to visitor has have cancel booking    Cancel Field inside table was changed to true. |
| 8 | International Visitor attempt to book sport class | An alert box will appear and book button is disable. |
| 9 | When visitor vist event which already over | An alert box will appear and book button is disable. |
| 10 | Visitor attempt to book event not 1 day ahead of the time | An alert box will appear and book button is disable. |
| 11 | Visitor could translate website to chinese | Website could be translated to Chinese |
| 12 | Visitor could receive emails | Visitor could receive email containing passcode and url to cancel booking. |
| 13 | Mobile Views | Website is responsive |
| 14 | Book more than available seats | Will alert not enough seats |
| 15 | Access event which is already over. | Will alert match is over. |
| 16 | Book event without 1 day ahead | Will alert you must book 1 day ahead. |
| 16 | Register with used email | Have to use another email |
| 17 | Register with used username | Have to use another username |
| 18 | Create post with used title | Have to use another title |
| 19 | Create event with used title | Have to use another title |
| 20 | Statistic function properly | Statistic will glitch between competition and class when mouse hover over. |
| 21 | Could access every sport page | Could not access sport with title has blank space. For example, beach volleyball. |

**Evaluation**

CodeIgniter framework relies heavily on url to call function. If visitor could enter url to run function with restriction, it could be security breach. Therefore, I use session feature to determine if the visitor is log in or not. I coded to make sure not a single page could be accessed without logged in.

Furthermore, the weakness of my timetable is that it could not display two url inside 1 column. If 2 events are assigned same sports and date, only 1 url will appear.

I used JavaScript to set multiple condition when booking seats for events. JavaScript is shown to be great at manipulating html with conditions.

I still couldn’t find out why sports with blank space such as beach volleyball will cause error. However, I did create error page for that.

In conclusion, my website fully fulfils both functional requirement and on-functional requirement.