**Regression Testing:**

When testing changes, we should make sure first and foremost the integrity of the database is held since it holds or will hold information that is not recreatable unless we backup the information.  Almost everything on the site relies on it as well so we have to check all of the places which we query the database or read display information from it.  We also have to check scheduled updates else we may end up getting random problems which cannot be easily foreseeable unless focused upon.

Next we would test the systems that are related to the thing being changed.  Keep an old copy, and test operations on the old and new copy to see if there are any differences.  After testing everything that used the old changes, do a quick test on unrelated but important systems on the site are still working as intended.

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Whenever a bug fix is made, regression testing comes into play. Our regression testing strategy prioritizes the database. Because the database holds a plethora of critical information that will not be backed up, ensuring the integrity of the data held within will be the cornerstone of regression testing. The list below is in descending priority order, and should be performed in that order. [Tests will be performed on the last stable build and compared to the test results of the current build that just had an update.]

1 - Database testing

Integrity - Is the integrity of the data held?

Connection - Does the server connect to the database?

Modification - Can the server make modifications to data in the database?

2 - Homepage testing

Does it display?

Mobile - Does the website scale correctly and display on mobile devices?

3 - Event testing

Do events display?

Can events be added?

4 - Login testing

Can a user log in?

5 - User profile testing

User profile viewing

User profile editing

6 - Permissions

Can each user only do what is intended

Unregistered user

Registered user

School user

Banned user

7 - Reporting

Does the correct facility usage and profits data display?

Can the above data be viewed cleanly and exported?