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We performed incremental testing using a top-down method. We began by testing the GUI of the website and making sure all aspects of the project look good. We then moved on to testing individual portions of the website including the log in screen, the create a profile screen, and Spotify search page.

Incremental Testing

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| Defect No. | Description | Severity | Solution |
| 1 | The password text field was not hidden | 1 | Add the hidden tag to the password text field |
| 2 | Pressing “Log in” displays a “wrong username/password message” every time | 3 | Link false return of database to wrong username/password message instead of just submit call |

Regression Testing

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| Defect No. | Description | Severity | Solution |
| 1 | Pressing “Log in” correctly gets through the log in correctly, but does not displayed a “successful log in” message | 3 | Add an else to the statement dealing with failed log in to show a message for correct log in |

Incremental Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | Pressing “Log in” with incorrect credentials still allows a user to log in | 3 | Change checks against database for more than just checking username |
| 2 | A user enters a null string for either username or password but the table does not support a null entry so the find function does not work | 3 | Do a separate check for null entries on the login page |

Regression Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | Entering a null entry now searches the database but does not show a “wrong username/password combination” | 3 | Add another check to display this message |

Incremental Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | There was no confirmation of data being sent when user inputted valid data | 1 | We now redirect the user to another page when the data is submitted |
| 2 | User was allowed to put invalid characters and too short of a password when registering | 2 | We now check for length of password and for invalid characters |

Regression Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | User was not allowed to enter too short of a password into registration field, but was not told why | 3 | Added a dialog box that explains the password was too short |

Incremental Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | User entered username/password combination that already existed in the database | 3 | Disallow user to register with repeats of usernames/passwords |
| 2 | Page hangs/takes a while to load after submitting registration info | 2 | Fix database connection to allow for faster entry of data into tables (lower amount of tables) |
| 3 | User enters a password that is too long for the database to hold for a data entry | 2 | Disallow passwords longer than 64 characters |

Regression Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | User entered a password that was too long, but was not shown an error and page was merely reloaded | 3 | Added a dialog box that explains the password was too long |

Incremental Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | Results did not appear when searching for a song | 3 | Fixed HTML elements that displayed results to show them when user presses enter |
| 2 | User enters a song but the song was not found using the Spotify API | 1 | Added a dialog saying ‘No Songs Found’ |
| 3 | Results shown from a search were non-functional and did not allow for interaction | 2 | Added Javascript to allow user to interact with a song |

Regression Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | User does not enter a search term, and when search is pressed, returns all results of all songs from Spotify API | 3 | If search field is blank when searching, return a message saying search is not valid |

Incremental Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | Application was not registered with Spotify, so all requests for info were getting denied | 3 | Registered application with Spotify |
| 2 | Spotify database is Case sensitive, so inputs from user were not being parsed correctly | 1 | Removed case sensitivity before searching Spotify DB |
| 3 | If any error occurred while searching the API for a song, the webpage would crash | 3 | Added error callback to ajax calls that reference Spotify API |

Regression Testing

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| Deficit No. | Description | Severity | Solution |
| 1 | When return the result from Spotify DB, the same method was making the results all lowercase | 3 | Remove function call on the results from search |

Component A: GUI

Component B: Login Page