

Manual Tests

1. Verify that a user can successfully register with a unique username and password.
2. Verify that a user cannot register with an existing username.
3. Verify that a user can log in with valid credentials.
4. Verify that a user cannot log in with invalid credentials.
5. Verify that a user can create a new quiz with a unique name and valid genre.
6. Verify that a user cannot create a quiz without a name.
7. Verify that a user cannot create a quiz with a duplicate name.
8. Verify that a user can add tracks to a quiz.
9. Verify that a user can remove tracks from a quiz.
10. Verify that a user can save a quiz.
11. Verify that a user can view a list of their saved quizzes.
12. Verify that a user can delete a saved quiz.
13. Verify that a user can start playing a quiz.
14. Verify that a quiz starts with the correct playback time.
15. Verify that a quiz starts with the correct answer time.
16. Verify that a user can answer a question within the allowed answer time.
17. Verify that a user cannot answer a question after the allowed answer time.
18. Verify that a user receives points for a correct answer.
19. Verify that a user does not receive points for an incorrect answer.
20. Verify that a user can view their score during the quiz.
21. Verify that a user can view the leaderboard for a quiz.
22. Verify that the leaderboard shows the top scores for a quiz.
23. Verify that the leaderboard shows the usernames of the top scorers.
24. Verify that a user can view the global leaderboard.
25. Verify that the global leaderboard shows the top scores across all quizzes.
26. Verify that the global leaderboard shows the usernames of the top scorers.
27. Verify that a user can view details of a quiz.
28. Verify that the quiz details display the quiz name.
29. Verify that the quiz details display the quiz genre.
30. Verify that the quiz details display the number of tracks in the quiz.
31. Verify that a user can edit the details of a quiz.
32. Verify that a user can change the name of a quiz.
33. Verify that a user can change the genre of a quiz.
34. Verify that a user can change the playback time of a quiz.
35. Verify that a user can change the answer time of a quiz.
36. Verify that a user can cancel editing a quiz.
37. Verify that a user can view their profile.
38. Verify that the user profile displays the username.
39. Verify that the user profile displays the number of quizzes created by the user.
40. Verify that the user profile displays the number of quizzes played by the user.

41. Verify that a user can edit their profile.
42. Verify that a user can change their username.
43. Verify that a user can change their password.
44. Verify that a user can cancel editing their profile.
45. Verify that a user can delete their account.
46. Verify that deleting an account also deletes all associated quizzes.
47. Verify that deleting an account also removes the user's scores from the leaderboard.
48. Verify that the website displays appropriate error messages for invalid inputs.
49. Verify that the website displays appropriate success messages for successful actions.
50. Verify that the website is responsive and displays correctly on different screen sizes.
51. Verify that the website is compatible with different web browsers (Chrome, Firefox, Safari, etc.).
52. Verify that the website is accessible and adheres to accessibility standards.
53. Verify that the website loads quickly and performs well under normal usage.
54. Verify that the website handles concurrent user interactions without issues.
55. Verify that the website handles unexpected errors gracefully and displays appropriate error pages.
56. Verify that the database schema is properly set up and all models are correctly defined.
57. Verify that the database records are created, updated, and deleted accurately.
58. Verify that the database queries and data retrieval operations are efficient.
59. Verify that the database indexes are properly configured for optimal performance.
60. Verify that the website follows secure coding practices to prevent common web vulnerabilities.
61. Verify that the website uses appropriate authentication mechanisms to protect user accounts.
62. Verify that the website encrypts sensitive data, such as passwords, in the database.
63. Verify that the website implements proper input validation and sanitization to prevent code injection attacks.
64. Verify that the website implements appropriate access controls to restrict unauthorized actions.
65. Verify that the website implements CSRF protection to prevent cross-site request forgery attacks.
66. Verify that the website implements proper session management to handle user sessions securely.
67. Verify that the website implements logging and error tracking to monitor and debug issues.
68. Verify that the website uses appropriate caching mechanisms to improve performance.
69. Verify that the website handles high traffic and scales effectively under load.
70. Verify that the website complies with relevant data protection and privacy regulations.
71. Verify that the website integrates with the Spotify API correctly.
72. Verify that the website can retrieve track details from the Spotify API.
73. Verify that the website can play tracks from the Spotify API during the quiz.
74. Verify that the website can authenticate and authorize users with the Spotify API.
75. Verify that the website handles errors and exceptions from the Spotify API gracefully.

76. Verify that the website adheres to Spotify's terms of service and usage policies.
77. Verify that the website displays appropriate attribution and credits for the Spotify API.
78. Verify that the website implements appropriate rate limiting and caching for API requests.
79. Verify that the website handles API rate limit exceeded errors and retries requests.
80. Verify that the website stores and retrieves user ratings accurately.
81. Verify that the website calculates and updates user ratings correctly based on quiz performance.
82. Verify that the website updates the leaderboard rankings based on user ratings.
83. Verify that the website displays the user's rating next to their username in the leaderboard.
84. Verify that the website displays the user's rating next to their username in the quiz results.
85. Verify that the website updates the global leaderboard based on user ratings.
86. Verify that the website provides an option to reset user ratings and leaderboard rankings.
87. Verify that the website handles user interactions with the rating functionality accurately.
88. Verify that the website validates and sanitizes user inputs for rating operations.
89. Verify that the website displays appropriate messages for rating-related actions.
90. Verify that the website enforces appropriate permissions and restrictions for rating-related actions.
91. Verify that the website performs well under high rating activity and updates rankings efficiently.
92. Verify that the website displays accurate and up-to-date rating information on user profiles.
93. Verify that the website displays accurate and up-to-date rating information in the leaderboard.
94. Verify that the website provides options for sorting the leaderboard by different criteria (e.g., rating, username).
95. Verify that the website handles tiebreakers in the leaderboard rankings accurately.
96. Verify that the website displays the leaderboard rankings consistently across different pages.
97. Verify that the website handles edge cases and unusual scenarios in the rating functionality.
98. Verify that the website provides appropriate error handling and fallback mechanisms for rating-related issues.
99. Verify that the website logs rating-related events and actions for auditing and analysis purposes.
100. Verify that the website performs regular maintenance and optimization tasks for the rating system.