Performance Testing Scenarios:

1. Simulate 200 concurrent users navigating through the home page.
2. Increase the load to 400 concurrent users and observe the application's response.
3. Sustain 100 concurrent users for 8 hours accessing various functionalities.
4. Simulate a load corresponding to anticipated peak usage with 600 concurrent users.
5. Measure the response time for submitting college details during enrollment.

Functional Testing Scenarios:

6. Update user preferences for communication channels.
7. Test the "Forgot Password" functionality for account recovery.
8. Verify the accuracy of workshop schedules displayed on the user dashboard.
9. Enroll in a workshop using a combination of valid and invalid inputs.
10. Validate the accuracy of the countdown timer during OTP verification.

Integration Testing Scenarios:

11. Validate the integration with a third-party payment gateway.
12. Test the integration of user roles with access permissions.
13. Integrate SMS notifications for workshop enrollment status updates.
14. Verify the integration of location-based services for selecting workshops.
15. Test the integration with an external database for storing user preferences.

Smoke Testing Scenarios:

16. Check the application's responsiveness on various devices.
17. Verify the accessibility of the login page for users with disabilities.
18. Test the application's behavior when accessed with an incorrect URL.
19. Confirm that the logout functionality clears session data.
20. Validate the display of essential information on the home page.

21. Navigate through the application using keyboard shortcuts.
22. Access the application using different internet connection speeds.
23. Verify the behavior when attempting to register with an already registered email.
24. Check the application's responsiveness during a screen orientation change.
25. Test the display of error messages for incomplete form submissions.

26. Validate the behavior of the application during a sudden loss of internet connectivity.
27. Verify the correctness of data displayed in the user profile.
28. Test the application's behavior when accessed from different geographic locations.
29. Check the responsiveness of the application while performing multitasking.
30. Validate the accuracy of tooltips displayed for form fields.

31. Test the behavior of the application when accessed with a low battery on a mobile device.
32. Verify the handling of special characters in user input fields.
33. Test the responsiveness of the application during a browser window resize.
34. Check if the application prompts for re-authentication after a period of inactivity.
35. Validate the application's behavior when accessed through various web browsers.

36. Test the accuracy of timestamps for workshop schedules in different time zones.
37. Verify the display of images and media files on the application.
38. Check the behavior when a user attempts to submit a form with invalid characters.
39. Validate the responsiveness of the application while processing background tasks.
40. Test the accuracy of geolocation services for recommending nearby workshops.

41. Verify that user preferences for language settings are accurately applied.
42. Check the display of error messages when attempting to access restricted content.
43. Test the responsiveness of the application during a device rotation animation.
44. Validate the behavior when a user with an incomplete profile attempts to enroll in a workshop.
45. Test the application's responsiveness during a transition between Wi-Fi and mobile data.

46. Verify that the application prompts for confirmation before navigating away from unsaved changes.
47. Test the behavior when a user attempts to access the application with disabled cookies.
48. Validate the application's responsiveness when the device is in power-saving mode.
49. Check the display of warning messages for potentially insecure actions.
50. Test the responsiveness of the application while loading large datasets on the dashboard.

51. Verify that the application provides appropriate feedback during long-running processes.
52. Test the responsiveness of the application when accessed through a slow internet connection.
53. Check the behavior when attempting to enroll in a workshop with insufficient account balance.
54. Validate the accuracy of calculations in the application, such as age or duration.
55. Test the application's behavior when navigating back and forth between pages rapidly.

56. Verify that the application handles unexpected server errors gracefully.
57. Test the responsiveness of the application during simultaneous background updates.
58. Check the display of warning messages for actions that may incur additional charges.
59. Validate the accuracy of data synchronization between the application and the server.
60. Test the application's behavior when accessing it with a high screen brightness setting.

61. Verify that the application retains user preferences after a software update.
62. Check the responsiveness of the application when navigating through large datasets.
63. Test the behavior when attempting to submit a form with conflicting data.
64. Validate the application's responsiveness during a simulated network congestion scenario.
65. Test the display of error messages when attempting to upload an unsupported file format.

66. Verify the application's behavior when accessed through various screen sizes and resolutions.
67. Test the responsiveness of the application during a simulated device overheating scenario.
68. Check the behavior when a user attempts to enroll in a workshop during a scheduled maintenance window.
69. Validate the accuracy of notifications for upcoming workshops.
70. Test the responsiveness of the application when rapidly switching between user accounts.

71. Verify that the application provides clear instructions for completing complex forms.
72. Check the behavior when attempting to register with an expired or invalid verification code.
73. Validate the responsiveness of the application when processing multiple simultaneous requests.
74. Test the display of error messages when attempting to access a workshop that has reached maximum capacity.
75. Verify that the application provides appropriate feedback during server downtime.

76. Check the behavior when attempting to submit a form with conflicting data from multiple open sessions.
77. Validate the responsiveness of the application during a simulated high CPU load scenario.
78. Test the accuracy of tooltips and help text provided for users.
79. Verify that the application handles gracefully when accessing it with low available storage space.
80. Test the responsiveness of the application when rapidly switching between network connections.

81. Check the behavior when attempting to submit a form with invalid characters in different languages.
82. Validate the accuracy of error messages displayed when attempting to submit incomplete forms.
83. Test the responsiveness of the application when accessing it through a VPN connection.

84. Verify the behavior when attempting to access the application with a compromised or modified device.

85. Check the display of error messages when attempting to enroll in a workshop with an expired invitation.

86. Validate the application's behavior when navigating through multiple open tabs or windows.
87. Test the responsiveness of the application when accessed through different device orientations.
88. Check the behavior when a user attempts to submit a form with a session that has timed out.
89. Verify that the application provides appropriate feedback when attempting to enroll in a canceled workshop.
90. Test the responsiveness of the application when navigating through pages with extensive content.

91. Validate the accuracy of location-based recommendations for workshops.
92. Check the display of warning messages for actions that require additional account verification.
93. Test the responsiveness of the application when rapidly toggling between dark and light mode.
94. Verify the behavior when attempting to access the application with an outdated browser version.
95. Test the application's responsiveness during a simulated sudden increase in network latency.

96. Check the behavior when a user attempts to submit a form with data that violates privacy regulations.
97. Validate the responsiveness of the application when accessing it with multiple open applications.
98. Test the display of error messages when attempting to enroll in a workshop with an expired account.
99. Verify that the application provides clear instructions

 for recovering a forgotten password.
100. Test the responsiveness of the application when rapidly switching between different user roles.

These scenarios cover a wide range of scenarios for testing the PHN Career Application, ensuring its robustness and reliability in various usage conditions.