| **Test cases for app.vwo** |
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| 1. Test logging in with a valid username and password |
| 1. Test logging in with an invalid username and valid password |
| 1. Test logging in with a valid username and invalid password |
| 1. Test logging in with an invalid username and invalid password |
| 1. Test logging in with a blank username and valid password |
| 1. Test logging in with a valid username and blank password |
| 1. Test logging in with a blank username and blank password |
| 1. Test logging in with a special character-only username and valid password |
| 1. Test logging in with a valid username and special character-only password |
| 1. Test logging in with a special character-only username and special character-only password |
| 1. Test logging in with a username that contains only numbers and a valid password |
| 1. Test logging in with a valid username and a password that contains only numbers |
| 1. Test logging in with a username that contains only numbers and a password that contains only numbers |
| 1. Test logging in with a username that contains a mix of alphanumeric characters and a valid password |
| 1. Test logging in with a valid username and a password that contains a mix of alphanumeric characters |
| 1. Test logging in with a username that contains a mix of alphanumeric characters and a password that contains a mix of alphanumeric characters |
| 1. Test logging in with a username that contains uppercase and lowercase letters and a valid password |
| 1. Test logging in with a valid username and a password that contains uppercase and lowercase letters |
| 1. Test logging in with a username that contains uppercase and lowercase letters and a password that contains uppercase and lowercase letters |
| 1. Test logging in with a long username (over 30 characters) and a valid password |
| 1. Test logging in with a valid username and a long password (over 30 characters) |
| 1. Test logging in with a long username (over 30 characters) and a long password (over 30 characters) |
| 1. Test logging in with a username that contains spaces and a valid password |
| 1. Test logging in with a valid username and a password that contains spaces |
| 1. Test logging in with a username that contains spaces and a password that contains spaces |