As VK.COM is web service application, I have used Selenium WebDriver for automating tests. Few reasons why exactly Selenium WebDriver:

* It’s free of charge
* Works with many browsers, OS and programming languages and frameworks. It will be easy to extend automatic test cases for Mobile version of the site
* I have experience using this tool

Features to be tested:

1. Log in

2. Sign up

3. Forgot password

4. Clicking on all menus on left side bar

5. Posting and deleting note on the wall

**Test Cases**

|  |  |  |  |
| --- | --- | --- | --- |
| Feature | Steps | Test data | Status |
| Login  (TestLogIn.class) | Precondition: user account created (email and phone are provided), user is not logged in yet. Google Chrome installed 1. Enter valid account's email address into 'Phone or email' 2. Enter valid password into 'Password' 3. Click Log In 4. Check you are logged in Expected result :: User is logged in and redirected to his profile  Post condition :: user is logged out | Email: [vkandrewtest@gmail.com](mailto:vkandrewtest@gmail.com)  Pass: test2016 | Automated |
| Login  (TestLogIn.class) | Precondition: user account created (email and phone are provided), user is not logged in yet. Google Chrome installed 1. Enter valid account's phone into 'Phone or email' 2. Enter valid password into 'Password' 3. Click Log In 4. Check you are logged in Expected result :: User is logged in and redirected to his profile  Post condition :: user is logged out | Phone: +17204142915  Pass: test2016 | Automated |
| Login  (TestEmptyField.class) | Precondition: user is not logged in, user account created. Google Chrome installed 1. Do not enter anything 2. Click Log In Expected result :: user was not able to proceed to his profile and stayed on login page  Post condition :: user is logged out | - | Automated |
| Sign up  (TestSignUp.class) | Precondition: user is not logged in 1. Open https://vk.com/ 2. Switch to English language of the site 3. Into field 'First Name' enter your name 4. Into field ‘Last Name' enter your surname 5. From 'Day' combobox select day 6. From 'Month' combobox select month 7. From 'Year' combobox select month 8. Select Male radiobutton 9. Click Sign up expected result :: user is redirected to account validation page  Post condition :: user is logged out | First Name:  Petro  Last Name:  Kozak  Birth date:  10.3.1990  Sex:  Male | Automated |
| Sign up  (TestEmptyField.class) | Precondition: user is not logged in 1. Open https://vk.com/ 2. Switch to English language of the site 3. Do not enter anything 4. Click Sign up expected result :: user is not redirected to account validation page, user stays on the page  Post condition :: user is logged out | - | Automated |
| Forgot password  (TestForgotPass.class) | Precondition: user is not logged in 1. Open https://vk.com/ 2. Click on 'Forgot your password' link expected result :: user is redirected to password retrieval page  Post condition :: user is logged out | - | Automated |
| Clicking on all  menus on left  side bar  (TestLeftSideBar.class) | Precondition: user account created, user is logged in. 1. Click on link ‘My Profile’ 2. Click on link ‘News’ 3. Click on link ‘Messages’ 4. Click on link ‘Friends’  5. Click on link ‘Communities’  6. Click on link ‘Photos’  7. Click on link ‘Audios’  8. Click on link ‘Videos’  9. Click on link ‘Games’ Expected result :: Corresponded page is loaded  Post condition :: user is logged out | Phone: +17204142915  Pass: test2016 | Automated |
| Posting note on the wall  (TestAddPostOnWall.class) | Precondition: user account created, user is logged in.  1. Click on link ‘My Profile’ 2. Into field 'What’s new' enter post  3. Click on the button ‘Send’  4. Check that post is attached to the wall  Expected result :: Post is attached on the wall  Post condition :: added post is deleted, user is logged out | Phone: +17204142915  Pass: test2016  Post:  ‘Hello World!’ | Automated |

\*Note: All automation scripts used web-browser Chrome, thus please ensure Google Chrome is installed.