**ChatSchoolette**

**Test Plan**

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**Severity noted as (C = Critical, I = Important, W = Workaround)**

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| **User Story:** As a site administrator, I want to reset a user’s password for them. | | **Severity** |
| **Functional Test Case** | **Instructions: Press the password reset button on the administrator control panel for a test user.**  **Expected Result: An email is sent to the test user account telling them to reset their password. In the meantime, the user cannot login to the site using their old password.** | **W** |
| **Functional Test Case** | **Instructions: Use the API to POST directly to the URL with a test user account ID.**  **Expected Result: An email is sent to the test user account telling them to reset their password. In the meantime, the user cannot login to the site using their old password.** | **W** |

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| **User Story:** As a site administrator, I want to read report messages about inappropriate behavior. | | **Severity** |
| **Functional Test Case** | **Instructions: On administrator control panel page, click the view reported user list button to see all reported user for inappropriate behavior.**  **Expected Result: It shows the table to administrator which contains report information such as reporter, report time, reason and etc.** | **W** |

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| **User Story:** As a site administrator, I want to send a warning email to a user for inappropriate behavior. | | **Severity** |
| **Functional Test Case** | **Instructions: On administrator control panel, click “Send Warning Email” on a test user. Do not add anything to the message text body.**  **Expected Result: Test user gets an email warning them about their inappropriate behavior. A generic behavior message is in the body of the email.** | **I** |
| **Functional Test Case** | **Instructions: On administrator control panel, click “Send Warning Email” on a test user. Add a custom message to the message text body.**  **Expected Result: Test user gets an email warning them about their inappropriate behavior. The custom message text is in the body of the email.** | **I** |

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| **User Story:** As a site administrator, I want to ban a user from the site. | | **Severity** |
| **Functional Test Case** | **Instructions: On the administrator control panel, click “Ban User” on a test user. Click “Yes” to confirm your intentions.**  **Expected Result: User can no longer chat with other users.** | **I** |
| **Equivalence Class Test Case** | **Instructions: On the administrator control panel, click “Ban User” on a test user. Click “Cancel” to cancel the banning.**  **Expected Result: No effect. User can still chat.** | **I** |

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| **User Story:** As a site administrator, I want to read a user’s chat logs. | | **Severity** |
| **Functional Test Case** | **Instructions: On the administrator control panel, click “View Transcript” on a test user.**  **Expected Result: Transcripts of the test user gets displayed on the screen of said administrator.** | **I** |

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| **User Story:** As a site administrator, I want to view all users’ profiles. | | **Severity** |
| **Functional Test Case** | **Instructions: On the administrator control panel, click “View Profile” on a test user.**  **Expected Result: The test user’s profile is displayed.** | **W** |
| **Functional Test Case** | **Instructions: Navigate directly to the URL related to viewing a test user’s profile.**  **Expected Result: The test user’s profile is displayed** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to register an account for use on the site. | | **Severity** |
| **Functional Test Case** | **Instructions: While not logged in as any user, navigate to the URL for registering an account. Fill out the form that pops up. Hit enter.**  **Expected Result: User receives an email to confirm their account registration.** | **C** |
| **Functional Test Case** | **Instructions: While already logged in as a user, navigate to the URL for registering an account..**  **Expected Result: User is redirected to the “My Account” page** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to reset my password via email. | | **Severity** |
| **Functional Test Case** | **Instructions: While on the login page, click “Forgot Password?” link and then enter a valid test user’s email address.**  **Expected Result: Test user’s email address receives an email with a link to reset the user’s password.** | **C** |
| **Equivalence Class Test Case** | **Instructions: While on the login page, click “Forgot Password” link and then enter an email address NOT associated with any user.**  **Expected Result: Nothing happens. The system should pretend everything went fine, as any other information may make us susceptible to certain security vulnerabilities.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to reset my password via security questions. | | **Severity** |
| **Functional Test Case** | **Instructions: While on the login page, click “Forgot Password?” link and then enter correct answers for the test user’s security questions.**  **Expected Result: Test user is redirected to a page where they can reset their password.** | **C** |
| **Equivalence Class Test Case** | **Instructions: While on the login page, click “Forgot Password” link and then enter incorrect answers for the test user’s security questions.**  **Expected Result: The system tells the user that they entered their security questions incorrectly.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to provide a profile picture of myself. | | **Severity** |
| **Functional Test Case** | **Instructions: During registration, user clicks the “browse” button and uploads a picture of him/herself for use on the site.**  **Expected Result: User’s profile then displays the uploaded picture during chats and on the user’s profile page.** | **I** |
| **Boundary Value Test Case** | **Instructions: During registration, user clicks the “browse” button and uploads a file that is NOT an image for use on the site.**  **Expected Result: System warns the user that the file type is not supported.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to update my profile picture. | | **Severity** |
| **Functional Test Case** | **Instructions: User navigates to their account page and clicks “Upload new profile picture.” Choose an image from your computer and click “Upload.”**  **Expected Result: User’s profile picture is updated during chats and on the user’s profile page.** | **I** |
| **Boundary Value Test Case** | **Instructions: User navigates to their account page and clicks “Upload new profile picture.” Choose a file from your computer that is NOT an image and click “Upload.”**  **Expected Result: System warns the user that the file type is not supported.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to list my interests on my profile during registration. | | **Severity** |
| **Functional Test Case** | **Instructions: During registration, the user will list/select their interests. Then will set privacy setting to allow for public viewing in security settings.   Expected Result: When partner views User profile, interests will be listed and viewable to public.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to update my interests on my profile. | | **Severity** |
| **Functional Test Case** | **Instructions: User will go to edit profile and then select/change interests and then press “Update Profile”.   Expected Result: When viewing User profile, interests will be listed and updated.** | **I** |
| **Equivalence Class Test Case** | **Instructions: User will go to edit profile and then select/change interests and then press “Cancel.”  Expected Result: The user’s interests are not changed.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to write a short description of myself on my profile. | | **Severity** |
| **Functional Test Case** | **Instructions: User will go to description part and fill in as desired.   Expected Result: When viewing User profile, description will be listed.** | **I** |
| **Boundary Value Test Case** | **Instructions: User enters non-text format, such as a pasted emoji or image.   Expected Result: Description then will display extraneous characters.** | **I** |
| **Boundary Value Test Case** | **Instructions: User submits a blank box in the description field.**  **Expected Result: Description field is just left empty when viewing the user’s profile.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to update the description of myself on my profile. | | **Severity** |
| **Functional Test Case** | **Instructions: User will go to edit profile and then go to description part and fill in as desired.   Expected Result: When viewing User profile, description will be listed and updated.** | **I** |
| **Boundary Value Test Case** | **Instructions: User enters non-text format, such as a pasted emoji or image.   Expected Result: Description then will display extraneous characters.** | **I** |
| **Boundary Value Test Case** | **Instructions: User submits a blank box in the description field.**  **Expected Result: Description field is just left empty when viewing the user’s profile.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with other users through text. | | **Severity** |
| **Functional Test Case** | **Instructions: User will be randomly associated with non-filtered user, then start typing into message box and click “Send”.   Expected Result: Message delivered to partner, which will then be displayed in their chat log.** | **C** |
| **Boundary Value Test Case** | **Instructions: User enters non-text format, such as a pasted emoji or image.   Expected Result: Description then will display extraneous characters.** | **I** |
| **Boundary Value Test Case** | **Instructions: User tries to send blank messages through chat.**  **Expected Result: Nothing happens. The system does not respond.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with other users through webcam and microphone. | | **Severity** |
| **Functional Test Case** | **Instructions: User turns on webcam and/or microphone for use. User then gets paired up and speaks into microphone and/or records himself with webcam.  Expected Result: User is displayed on screen for himself and partner and partner can also hear audio.** | **C** |
| **Boundary Value Test Case** | **Instructions: User records himself with video and network drops on either receiving or sending end.   Expected Result: Message Displayed to convey that network has dropped and/or technical issues are occurring.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with users of the opposite gender only. | | **Severity** |
| **Functional Test Case** | **Instructions: User sets filter for chatting with users of opposite gender only.  Expected Result: User is only assigned filtered partners of opposite gender. If no one of that gender is online, a message will be sent to that user and they will be matched with anyone from their school.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with users of the same gender only. | | **Severity** |
| **Functional Test Case** | **Instructions: User sets filter for chatting with users of same gender only.  Expected Result: User is only assigned filtered partners of same gender. If no one of that gender is online, a message will be sent to that user and they will be matched with anyone from their school.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with users in a certain age bucket. | | **Severity** |
| **Functional Test Case** | **Instructions: User selects which age bucket they would like to be able to partner with.**  **Expected Result: User is only assigned partners with ages within their chosen age bucket. If noone of that age bucket is online, a message will be sent to that user and they will be matched with anyone from their school.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to chat with users only from my school. | | **Severity** |
| **Functional Test Case** | **Instructions: User presses the button for the next search.**  **Expected result: The new partner the user is communicating with attends the same school (verified only be checking that the users have the same \*.edu email address).** | **C** |
| **Boundary Value Test Case** | **Instructions: User presses the button for the next search, but there are not currently any users online from the same school.**  **Expected Result: A message is displayed, informing the user there is no one currently online from their school.** | **C** |

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| **User Story:** As a ChatSchoolette user, I want to chat with users who share an interest with me. | | **Severity** |
| **Functional Test Case** | **Instructions: User presses the button for the next search.**  **Expected result: The new partner the user is communicating with shares interests and the interests are displayed.** | **W** |
| **Boundary Value Test Case** | **Instructions: User presses the button for the next search, but no one from their school has listed the same interests.**  **Expected result: The new partner the user is connected with a user who attends the same school but no shared interests are shown. The user is informed that no one with similar interests could be found.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to view my chat partner’s profile. | | **Severity** |
| **Functional Test Case** | **Instructions: During a chat, the user clicks the “View Profile” button.**  **Expected Result: The partner’s profile is pulled up so the user can view it.** | **W** |

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| **User Story:** As a ChatSchoolette user, I want to report a user for inappropriate behavior. | | **Severity** |
| **Functional Test Case** | **Instructions: User presses “Report User” button and selects why they are reporting their partner.**  **Expected result: Administrator receives a message stating what user was reported and why.** | **I** |
| **Boundary Value Test Case** | **Instructions: User presses “Report User” but then hits cancel.**  **Expected Result: No message is sent to the administrator.** | **I** |

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| **User Story:** As a ChatSchoolette user, I want to delete my account. | | **Severity** |
| **Functional Test Case** | **Instructions: User presses “Delete Account” button followed by “Confirm”.**  **Expected Result: User’s account is deleted.** | **I** |
| **Boundary Value Test Case** | **Instructions: User presses “Delete Account” button followed by “Cancel”.**  **Expected Result: The account is not deleted.** | **I** |

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| **Non-functional requirement: Security** | | **Severity** |
| **Functional Test Case** | **Instructions: Try registering a user with a SQL injection in every field that tries to DROP TABLE users.**  **Expected Result: The site does not crash and no user accounts are lost. The system creates a new user by escaping the dangerous code.** | **C** |
| **Functional Test Case** | **Instructions: Try registering a user with a Javascript injection in every field that simply tries to send sort sort of alert.**  **Expected Result: The site does not crash and no code is executed (the injection code, that is). The system creates a new user by escaping the dangerous code.** | **C** |
| **Functional Test Case** | **Instructions: Try sending a Javascript injection during chat.**  **Expected Result: The site does not crash and no custom Javascript code is run on any machine. The system escapes the dangerous code, but still sends the plaintext to the other chat user.** | **C** |