**ChatSchoolette**

**Design Inspection, Code Inspection, Unit Testing**

**Team 1:** Logan Gore, Kyle Rodd, Sang Rhee, GeonHee Lee, Stephen Hong, Tyler Springer

**Design Inspection**

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| Product | ChatSchoolette Authorization Module | | |
| Date | 10/23/15 | | |
| Author | Geonhee Lee | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | Password is stored in plain text. | 2 | Password get hashed before being stored into database |
| 2 | User and admin have same authority and functionality | 1 | Divide the permission level into 2; user and admin |
| 3 | Authorization always fails due to comparing plain password given from the user and hashed password in the database are different | 1 | When password passed to the server in plain text, hash it before comparing it with one in the database |
| 4 | User authorization often takes too long due to failure in database. | 2 | Give a timeout to retrieve data from the database. |

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| Product | ChatSchoolette Account Module | | |
| Date | 10/23/15 | | |
| Author | Sang Rhee | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | User account name can be made upto 140 characters long | 2 | Change the username attribute of the database upto 20 characters long |
| 2 | Gender selection only has 2 options; male and female. | 3 | Other and secret options have been added to gender selection. |
| 3 | duplicate email address can be registered on the web | 1 | Set email address as primary key in the database |
| 4 | Database often fails to save the new user info. But it goes through successfully on the user’s page. | 1 | When database fails, notify user that the registration has failed. |

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| Defect # | Description | Severity | How Corrected |
| 1 | Blocked users appear again on the non-block user list | 2 | Made new attribute on user table which tells if user has been blocked or not |
| 2 | Admin can chat with normal users | 3 | Hide the chat menu if the user’s permission is admin |
| 3 | Blocked users can never be back to normal user when admin accidently block an innocent user | 2 | Add functionality that recover blocked users back to ordinary user by changing the permission |

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| Product | ChatSchoolette Chat Module | | |
| Date | 10/23/15 | | |
| Author | Sang Rhee | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | Users type too fast that send 100+ line per second | 1 | Restrict user’s message sending interval time |
| 2 | Users can’t quit the chat | 1 | Make ‘End chat’ button for users to quit the chat whenever they want |
| 3 | User does not send any message for more than an hour | 2 | Set timeout variable so that when both users do not send any message for an hour, chat room automatically dies away |
| 4 | User wants to chat with opposite gender but keeps connected with same gender | 3 | Make gender variable that allow user to chat with the gender they wants |

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| Product | ChatSchoolette Front-End Module | | |
| Date | 10/23/15 | | |
| Author | Geonhee Lee | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | When the authorization fails, it doesn’t direct to the login failure page. | 2 | When the authorization fails, handle it differently to direct to the login failure page. |
| 2 | Chat room not rendered when new message sent to the room | 1 | render the chat room screen every time the new message has been entered |
| 3 | Chat room failure to display image files | 3 | Allow jpg, jpeg, png and gif files to be uploaded |

**Code Inspection**

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| Date | 10/23/15 | | |
| Author | Logan Gore | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | Any password allows authorization | 1 | Check given password with the user’s saved password |
| 2 | Users can register without providing an email address | 2 | Use regex to check that the user provides a valid email |
| 3 | Users use a subdomain email address, getting no chat results (ex. cs.purdue.edu) | 2 | Extract TLD from given email address |
| 4 | Non-logged-in users can navigate to /auth/logout | 3 | Ignore requests to /auth/logout from anonymous users |

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| Defect # | Description | Severity | How Corrected |
| 1 | User provides a birth-date in the future while registering | 3 | Check that the birth-date occurs in the past |
| 2 | User POSTs with a value for a SelectField outside of the allowed range (ex. submits value “5” for gender) | 1 | Be sure to check that the POSTed data is within correct bounds |
| 3 | Robots try to register for ChatSchoolette to spam our users | 3 | Add a Recaptcha field to defeat the evil robots from taking over our sanctuary of friendship |
| 4 | User never provides a profile picture, causing “missing picture” | 3 | Provide a default profile picture for the user, store this info in the DB |

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| Date | 10/23/15 | | |
| Author | Stephen Hong | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | Admin module is available to non-admin users | 1 | Fix permission issue |
| 2 | Block button doesn’t block user | 2 | Make sure button calls correct method to get the job done. |
| 3 | Flag button doesn’t increase flag counter | 3 | Make sure a variable in the database gets updated |
| 4 | System does not add user as admin when it’s instructed to | 3 | Make sure correct module is called to do the job |

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| Defect # | Description | Severity | How Corrected |
| 1 | User does not receive a message | 1 | Make sure correct data is being sent to user, and front-end can understand the information that it’s getting. |
| 2 | User’s message does not hit the server | 1 | Make sure chat is received by server, and stored in the database correctly |
| 3 | User receives someone else’s messages | 1 | Make sure server is sending data to correct user session |
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**Unit Testing**

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| Author | Tyler Springer | | |
| Inspectors | ChatSchoolette Team | | |
| Defect # | Description | Severity | How Corrected |
| 1 | Filtering special characters not applied in password. | 2 | Set additional conditions to check for list of special characters. |
| 2 | Email Address does not contain ‘@’ and ‘.edu’. | 2 | During registration, these requirements are checked for. |
| 3 | No checks for any sort of injections when entering password or addresses.. | 1 | Set filtering and checks for the input of the password checking for variety of injection setups. |
| 4 | Empty passwords could be used for logins | 3 | Require a minimum length for passwords. |

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| Defect # | Description | Severity | How Corrected |
| 1 | When uploading image, any file type is allowed for upload. | 2 | Set a condition to check for type of file, only allowing image types of a limited variety. |
| 2 | When modifying profile information, user uses a text other than plain text and odd characters are displayed. | 3 | Set a condition to check for characters that aren’t aloud. |
| 3 | When allowing text input for description, there is no limited length of input. | 2 | Set a condition or truncate text to limit to 140 characters. |

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| Defect # | Description | Severity | How Corrected |
| 1 | Admin can block themself. | 2 | If user entered is themself then just ignore by setting filter condition. . |
| 2 | Admin can block non-existing users. | 3 | Set condition to check to see if user entered exists in database, if not then ignore. |
| 3 | Admin setting description for flag leads to crash due to length of description. | 2 | Set condition to limit flag description or truncate at 140 characters. |

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| 1 | User uses a text other than plain text and odd characters are displayed. | 3 | Set a condition to check for characters that aren’t aloud. |
| 2 | User tries to paste an image directly into the chat box and undefined behavior occurs. | 2 | Set a condition to check for only text characters. |
| 3 | User tries to write a message that is too long, stressing the server and affecting performance. | 2 | Set condition so a message can only have 140 characters. |
| 4. | User tries to send a blank message and their partner receives a blank message. | 2 | Set condition so messages can’t be blank. |