Team 11

10/14/2016

**Design Inspection / Code Review #2**

Team Splytr

Sahil Pujari, Keenan Wresch, Akshit Gudoor, Hari Krishnam Raju, Aritra Samanta

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| Product | Server Side Login Page Design Inspection (Server side) |
| Date | 10/12/2016 |
| Author | Sahil Pujari, Keenan Wresch |
| Inspector | Sahil Pujari, Keenan Wresch |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Server doesn't respond to the requests from the client or website front - end. | 2 | Return a message in the terminal indicating the success or the failure for the request submitted to the server. |
| 2 | Server side does not properly store the data according to the attribute name. | 1 | Added proper attributes to the database tables for adding the data of the users. |
| 3 | Server mistakenly assigns an existing user id to a new user created | 1 | Let the database get all the existing user ID’s and make a comparison before inserting into a new account. |
| 4 | Server doesn't show the package details of the new user id created. | 2 | Retrieve the Package that belongs to the new user and update package information in the user account. |

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| Product | Front - End User Home design inspection (Front end) |
| Date | 10/13/2016 |
| Author | Sahil Pujari, Akshit Gudoor |
| Inspector | Sahil Pujari, Akshit Gudoor |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Each subscreen does not contain a component allowing the user to go back to a upper - level screen. | 3 | Added a button in each sub - screen to allow the user to go back to the upper-level screen. |
| 2 | Page doesn’t scale properly when window is resized | 3 | Modify the jQuery file to adapt window resizing with the frame size |
| 3 | Login Screen module does not contain a component for testing for ID and password validity. | 1 | Added verification for ID and Password of the particular User. |
| 4 | User couldn’t look up their personal information. | 2 | Added a button to link to the user information page and retrieve information of the user from the database. |
| 5 | User wasn't able to update or delete present information of the user. | 3 | Server retrieved the information about a particular attribute and updated the data in the attribute after the user clicks the “Save Information” button |

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| Product | Splytr payment design inspection (Backend) |
| Date | 10/14/2016 |
| Author | Sahil Pujari, Aritra Samanta |
| Inspector | Sahil Pujari, Aritra Samanta |

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| Defect # | Description | Severity | How it was corrected |
| 1 | User’s couldn't select the amount or the user name to which they wanted to send the money to. | 3 | Created a HTML CSS page allowing the user to select the user and the amount to be sent. |
| 2 | Amount of money the user is owed or the amount of money owed to the user is not displayed on the web app | 2 | Link the total amount the user owes or the amount owed from the database. |
| 3 | Money can’t be sent/received to users/specific user | 3 | Check API for account information to see if receiver account is blocked or not, notify and ask the receiver to add another account |
| 4 | User couldn’t create a split request for an amount or accept a pending request. | 3 | Created an HTML CSS page with all the attributes form and added a new table to store all the data from the form into the database. |
| 5 | User couldn’t see the financial track record on their particular pages. | 3 | Created an HTML CSS page to connect to the database allow the server to retrieve all the transaction information linked to a user. |

**Code Inspection**

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| Product | Splytr Login Code Inspection |
| Date | 10/12/2016 |
| Author | Sahil Pujari, Hari Krishnam Raju |
| Inspector | Keenan Wresch, Akshit Gudoor |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Certain images were not being displayed although the image box was present | 1 | Image sources in the HTML code were corrected to contain the correct path |
| 2 | Logging into user2 account when username and password of user1 is entered. | 1 | Cross verified the username and password provided by the user and matched it will all the existing user ID and password. |
| 3 | Logging into the account without even providing the proper password. | 1 | Retrieved the password data of that particular username and cross checked it with the password provided. |
| 4 | Email validation checks are not working properly | 2 | Add more tokens such as gov, edu so that they’re not treated as invalid |
| 5 | UI was not displaying certain text properly | 2 | Breaks were added in the code so that text wouldn’t be hidden behind the layout |
| 6 | Passwords that do not follow guidelines are also allowed | 4 | Added additional checks for entering a password into the input text box |
| 7 | Bootstrap buttons and text were not present in the UI | 1 | Scripts were added to the HTML code so that all the HTML code modified for Bootstrap would work |

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| Product | Splytr Server Login Verification Code Inspection |
| Date | 10/13/2016 |
| Author | Keenan Wresch, Sahil Pujari |
| Inspector | Aritra Samanta, Hari Krishnam Raju |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Password with capital letters is not accepted | 2 | Fix the string input reading and parsing for reading and accepting password with capital letters |
| 2 | Users cannot be retrieved by the username | 1 | Add a function to retrieve a user by their username. |
| 3 | All exceptions are caught by default in each functions and no errors or warnings are printed. | 2 | Only catch SQLException and print a stack trace. |
| 4 | Password with some special characters not accepted | 3 | Fix the code to accept special characters for password as well |
| 5 | Two users having the same username overwrite former data | 1 | Fix input string reading so that two users don’t have same username in the database. |
| 6 | Correct data isn’t loaded when user logs into the system. | 1 | Fixed data display on the front end from the database as data wasn’t being requested in a correct fashion. |

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| Product | Splytr Payment Verification Code Inspection |
| Date | 10/14/2016 |
| Author | Keenan Wresch, Sahil Pujari |
| Inspector | Aritra Samanta, Hari Krishnam Raju |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Amount with unacceptable characters was accepted. | 1 | Had created a function to check and see if the data entered into the amount box was an integer or a double. |
| 2 | Amount display with more than 2 decimal characters. | 1 | Created a function to limit the amount variable to 2 decimals. |
| 3 | Split function does not split properly. | 2 | Created a function to divide the amount data by the split request. Use MATH Functions to do it. |
| 4 | Not displaying all the transactions of the particular user. | 1 | Retrieved all the data of the particular is responsible for and then added it to the display page of the HTML according to the request of the user. |

**Unit Testing**

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| Product | Splytr Login Unit Testing Inspection |
| Date | 10/12/2016 |
| Author | Sahil Pujari, Keenan Wresch |
| Inspector | Akshit Gudoor, Hari Krishnam Raju |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Password with specific character and spaces | 1 | Add conditional check if passwords have spaces and check for allowed and not allowed character and remove the unallowed characters. |
| 2 | Empty password | 1 | Establish minimum length bounds. |
| 3 | Emails with invalid value and invalid character and wrong email formats | 1 | Have the logic check for all tokens properly and restrict invalid entries from being processed. |
| 4 | Login button was not working | 1 | Login button was connected to a script that would connect to backend and send credentials for cross - verification |
| 5 | Clicking the login button with correct credentials presented a 404 error | 2 | Corrected the javascript url which was used for window.open() data was being sent back from the backend to the frontend. |

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| Product | Splytr Server Login Verification Unit Testing Inspection |
| Date | 10/14/2016 |
| Author | Sahil Pujari, Aritra Samanta |
| Inspector | Akshit Gudoor, Keenan Wresch |

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| Defect # | Description | Severity | How it was corrected |
| 1 | SQL injections | 1 | Used prepared statement to prevent injections. |
| 2 | Retrieving package/persons from the empty database or incorrect information. | 1 | Add conditional to check if the given username box is empty or not. |
| 3 | Function parameters may be null or uninitialized | 1 | Check if the parameter that are required to retrieve the informations are null or not. |
| 3 | Checking if credentials entered exist for the login system | 2 | Return a failure response and add the appropriate handler for cases when they do not exist |
| 4 | Handle heavy load in login system when 1000 users are bombarding | 3 | Handle requests on separate threads to increase performance in such scenarios |
| 5 | Checking if dehashing the encrypted password gives original password entered on the frontend | 4 | Return failure when input password to hash function returns an encryption that when decrypted fails to return correct password. |