Team 11

09/23/2016

**Design Inspection / Code Review #1**

Team Splytr

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

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| Product | Splytr login design inspection (Server side) |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Sahil Pujari |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Web app won’t always deploy | 1 | Added implementation in the app.JS file to pick a port that is available. |
| 2 | Successful login redirects to the login page again | 2 | Set separate routes and configure passport. |
| 3 | Facebook registration won’t work. | 3 | Configure passport-facebook and fix the facebook strategy app ID |
| 4 | Custom registration would not sync with the database | 3 | Configure the database properties to point it towards the correct connection ID |

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| Product | Splytr login design inspection (Front end) |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Sahil Pujari |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Title of the web page isn’t correct | 4 | Add the correct title in the EJS file |
| 2 | Page doesn’t scale properly when window is resized | 3 | Modify the jQuery file to adapt window resizing with the frame size |
| 3 | Facebook login button is pixelated | 5 | Got a higher DPI image for the facebook login button and replaced it |

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| Product | Splytr payment design inspection (Backend) |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Sahil Pujari |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Amount of money owed to the user is not displayed on the web app | 4 | Link the total amount owed from the database. |
| 2 | Amount of money the user is owed is not displayed on the web app | 3 | Link the total amount the user owes from the database |
| 3 | Money can’t be sent/received to users/specific user | 5 | Check API for account information to see if receiver account is blocked or not, notify and ask the receiver to add another account |

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| Product | Splytr Server Login Verification Design Inspection |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Sahil Pujari |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Server does not respond to login requests | 2 | Ensure a response is returned no matter if request fails or not |
| 2 | Server sometimes hangs up while a registration request is done | 3 | Implement multithreading in order to ensure uninterrupted performance |
| 3 | Server’s performance is not up to the mark | 3 | Check validy to reduce work load on the server |

**Code Inspection**

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| Product | Splytr Login Code Inspection |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Keenan Wresch |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Unaccepted passwords would still go to the server | 3 | Perform validation checks and thoroughly check that all password requirements are met |
| 2 | Slow password parsing performance | 3 | Reduced redundancy in checks in order to account for a better performance |
| 3 | Email validation checks are not working properly | 3 | Add more tokens such as gov, edu so that they’re not treated as invalid |
| 4 | At login, the password was not hashed before being sent to the server | 1 | The password was sent to the hash function, removed from memory and the hashed password was sent instead. |

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| Product | Splytr Server Login Verification Code Inspection |
| Date | 09/22/2016 |
| Author | Keenan Wresch |
| Inspector | Aritra Samanta |

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| Defect # | Description | Severity | How it was corrected |
| 1 | If credentials with spaces are entered, app crashes. | 3 | Fix the string input reading and parsing to account for reading the whole line |

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| Product | Splytr Login Page Code Inspection (Front-end) |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Aritra Samanta |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Pressing the enter key in the login form does not allow the user to enter the web app | 3 | Add an additional listener for keyboard shortcuts and enter button |
| 2 | The password confirmation field in the account creation dialog is not required | 3 | Add an explicit condition to make sure this field is not left empty |
| 3 | Usernames that do not follow the guidelines are allowed | 3 | Add conditional checks to account for the conditions being met properly |

**Unit Testing**

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| Product | Splytr Login Unit Testing Inspection |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Akshit Gudoor |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Password with spaces | 1 | Add conditional check if passwords have spaces and do not allow them |
| 2 | Empty password | 1 | Establish minimum length bounds |
| 3 | Emails with invalid value | 1 | Have the logic check for all tokens properly and restrict invalid entries from being processed |

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| Product | Splytr Server Login Verification Unit Testing Inspection |
| Date | 09/22/2016 |
| Author | Sahil Pujari |
| Inspector | Akshit Gudoor |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Handle non 200 HTML status codes | 1 | Add implementation to handle invalid requests |
| 2 | 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 |
| 3 | Handle heavy load in login system when 1000 users are bombarding | 3 | Handle requests on separate threads to increase performance in such scenarios |

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| Product | Splytr Login Page Unit Testing Inspection (Front-end) |
| Date | 09/22/2016 |
| Author | Keenan Wresch |
| Inspector | Hari Mantena |

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| Defect # | Description | Severity | How it was corrected |
| 1 | Passwords on infinite length are allowed | 3 | Add a boundary to the number of characters entry allowed |
| 2 | Blank username or passwords are not highlighted | 3 | Add implementation so that these fields would turn red so that it comes up to the user’s attention |
| 3 | Short passwords are allowed | 3 | Add length validation on the front end as well |