

SENG 300 – Iteration 3 Report

Development of Paper Submission System for a Journal

Group 20 – Ahmed Zahran, Lucas Del Villar, Matthew Cox, Renjie Xu, Shahmir Khan, Anas Alawa

Software Development Process

For this iteration we have used the **Iterative Software Development Model**. We started with the planning and requirements stage, identifying which set of software requirements we would implement for iteration 3. Then we began analyzing what we needed to accomplish our goals, a conclusion from this process was that we needed to use a database. We decided to use MySQL and then started designing how our system would work with it. Finally, we began implementing functionality and iteratively improving the evolving versions until all our iteration 3 requirements were ready for submission. We essentially divided our workload for iteration 3 into smaller, more manageable mini iterations. We are at the stage of testing and evaluating our current implementation before we make changes for our final submission.

As for the functionalities we decided for this third iteration, this process allowed us to get some working functionality quickly and early in the cycle as we recently switched to the MySQL database as previously mentioned. This development process allowed us to better measure progress since we could measure how close to completing requirements we were. It also made it easier to test and debug during these small iterations. We divided our team members into developers and testers and those roles changed after every mini iteration allowing each team member to experience both roles in order to appreciate each side of the process. Compared to the agile development model that we had been using for the past two iterations, this iterative model made this iteration more structured, which was a good change for some of our team members who had a hard time choosing which tasks they wanted to work on previously.

User Stories

<i>Story #</i>	<i>General</i>	<i>Planned Implementation</i>
1	<i>As a user of this software I should be able to login to the system with my credentials (email and password) and have access to the things relevant to me, so that I can easily accomplish what I need to do.</i>	Iteration 1
2	<i>As a new user, I should be able to sign up as a reviewer or author</i>	Final Submission

<i>Story #</i>	<i>Administrator</i>	<i>Planned Implementation</i>
3	<i>As an administrator I should be able to receive submissions from different authors and assign those submissions to different review committee members so they can view them</i>	Iteration 3

4	<i>As an administrator I should be able to approve (or not approve) reviewer feedback once they have reviewed their assigned submissions. Unhelpful or incorrect feedback should not be passed along to the author</i>	Iteration 3
5	<i>As an administrator I should be able to verify and approve those who have signed up to be a reviewer, to ensure that they are professionals in a relevant field</i>	Final Submission
6	<i>As an administrator I should be able to adjust the priority of the feedback, so that critical feedback is addressed first by an author</i>	Iteration 3
7	<i>As an administrator I should be able to sort a list of reviewers (by self-nominated/nominated by author), so that I can more easily decide who to assign papers to</i>	Final Submission
8	<i>As an administrator I should be able to set deadlines for submissions and revisions, so papers are reviewed and are ready for publishing in a timely manner</i>	Iteration 3
9	<i>As an administrator I should be able to accept or reject papers which have gone through major and minor revisions, so that papers fit for the journal are included and those that are not remain unpublished</i>	Final Submission

Story #	Author	Planned Implementation
10	<i>As an author I should be able to submit a paper to the journal, so that it can eventually be published to the journal</i>	Iteration 2
11	<i>As an author I should be able to view feedback on my submissions, so that I can make any changes/revisions necessary to my paper</i>	Iteration 3
12	<i>As an author I should be able to specify a preferred list of reviewers for my paper, so that my submission is reviewed by those knowledgeable in my subject</i>	Iteration 3
13	<i>As an author I should be able to receive email notifications once my paper has feedback or when a deadline is set, so I know what and when I need to make any changes by</i>	Final Submission
14	<i>As an author I should be able to resubmit my paper any number of times before the deadline, so that I can make changes based on feedback to help get my paper published</i>	Iteration 3

Story #	Reviewer	Planned Implementation
15	<i>As a reviewer I should be able to view a list of paper submissions assigned to me to review, so that I know which paper I need to review</i>	Iteration 3
16	<i>As a reviewer I should be able to search papers that I can nominate myself to review, so that I can provide feedback to those papers I am interested and/or have expertise in</i>	Iteration 3
17	<i>As a reviewer I should be able to submit feedback on papers I have been assigned, so that the author can make changes if necessary, to help their paper be included in the journal</i>	Iteration 3

Software Testing

We are in the early stages of writing automated tests for our software, so the following tests we have completed are all manual. They revolve mostly around testing the functionality of our software by interacting with various elements of the GUI such as menu buttons, lists, and some special file browser cases.

Test Type	Test	Author
Manual	Login to the system through main login screen. Valid and invalid username/password combinations used. Error message properly displays for invalid usernames and/or passwords.	Ahmed
Manual	Make sure the functionality of the GitHub button works and launches the default browser on the system.	Ahmed
Manual	Ensure login, author, reviewer, and admin GUI elements appear and act normally on Windows, Linux, and MacOS systems	Ahmed
Manual	Menu buttons in author view all change panels in the JFrame correctly and the Logout button correctly brings you back to the main login page	Lucas
Manual	Submitting a paper by filling out all fields properly adds the file to the submissions folder and sets various fields in database	Lucas
Manual	After a new submission the author's submission list properly updates with the correct information	Shahmir
Manual	Review Feedback for authors properly populates if a reviewer has submitted feedback and an admin has approved it	Anas
Manual	Menu buttons in reviewer view all change panels in the JFrame correctly and the Logout button correctly brings you back to the main login page	Anas
Manual	Browse Journals properly populates with every paper's research subject. Each subject correctly displays all papers associated with that subject	Matthew
Manual	Provide feedback works correctly when a reviewer has papers assigned to them by an Admin. Clicking open paper opens the correct paper stored in the submissions folder. Feedback can be given to the author and it shows up for the correct author	Matthew
Manual	Menu buttons in admin view all change panels in the JFrame correctly and the Logout button correctly brings you back to the main login page	Shahmir
Manual	Review submissions has a list of all papers to approve or reject and can be opened using the open paper button. The details of the submission correctly populate, and the deadline can be set. The approval won't go through if the date is not set correctly.	Renjie
Manual	Review Feedback correctly populates with papers waiting to be reviewed. Admin's can edit the text before it gets sent to an author	Renjie