Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Assignment 1: Bug Reporting

Due[1]: **Sunday Week 5** (13/10/2024, 11:59pm Irish time)
Mark: 15%

Objective

The objective of this assignment is to familiarise you with the process of bug reporting and task management using Jira, a popular project management and issue tracking tool. You will be required to create tasks based on given requirements and then report bugs.

Submission Guidelines

Submission will be soft copy only on **Brightspace**.

- One submission per group.
- One file: either a PDF or, if you have multiple files, a ZIP file.

Documents to Submit

You need to document your response in three ways:

- **The log:** who did what and when?
- **The reflection**[2]**:** as a group, write a collaborative reflection on your experience using Jira for task management and bug reporting and discuss how teamwork impacted the assignment.
- **Things you are submitting** to demonstrate what you did and what you learned. For example, screenshots/videos/etc. of the created tasks and bug reports in your Jira project as proof of completion.

<u>Note: each group member should contribute to creating and reporting tasks and bugs.</u>

---

[1] Early submission of drafts is advised. The Brightspace assignment will be set up to accept unlimited submissions, however, each one will overwrite the previous one. So each submission must be a single file. Zip files are allowed.

[2] Reflection is considered an important skill to develop. It requires you to think about how you are relating to the material you are learning.

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Guidelines and Rules for Effective Group Work

Collaboration and Communication

- *Active Participation*: Each group member must actively engage in discussions and contribute to the assignment.
- *Effective Communication*: Maintain open and respectful communication within the group. Ensure that everyone has an opportunity to express their ideas.
- *Meet Regularly*: Schedule regular group meetings or discussions to update progress, address questions, and make decisions collectively.

Task Assignment

- *Equal Distribution*: Assign tasks and bug reports fairly among group members to ensure an equitable workload.
- *Matching Skills*: Consider each member's strengths and skills when assigning tasks. Assign tasks that align with individual expertise.
- *Deadline Awareness*: Be aware of task deadlines and work collectively to ensure all tasks are completed on time.

Conflict Resolution

- *Proactive Resolution*: If conflicts arise within the group, address them promptly and professionally. Seek solutions collaboratively.
- *Mediation*: If conflicts persist, consider involving the instructor or a mediator to facilitate resolution.
- *Non-Participation*: **If a group member consistently does not participate without a valid excuse, the group has the right to inform the instructor**. The instructor will reach out to the non-participating student to clarify the situation and encourage their participation.
- *Instructor Intervention*: If non-participation persists despite instructor intervention, **the instructor may ask the non-participating student to work on the assignment independently**.

Respect and Inclusion

- *Active Listening*: Listen attentively to others during group discussions, giving them the space to express their ideas without interruption.
- *Respect Diversity*: Embrace and respect diversity within the group. Create an inclusive environment where all voices are heard and valued.

Note on Plagiarism and Cheating

Plagiarism and cheating are **serious academic offenses** that undermine the integrity of the learning process and the reputation of both individuals and institutions. It is crucial that all group members understand and adhere to the principles of academic honesty throughout this assignment:

1. **Original Work:** All work submitted, including task descriptions, bug reports, and reflections, must be original and created by the group members themselves. Copying, reusing, or paraphrasing content from external sources without proper attribution is strictly prohibited.
2. **Proper Citation:** If you refer to external sources, including textbooks, online materials, or classmates' work, ensure that you provide appropriate citations. Failure to do so can be considered plagiarism.
3. **Collaboration vs. Copying:** Collaboration between groups is encouraged and expected, but there is a clear distinction between collaborative work and copying. Collaboration involves sharing ideas and discussing concepts to enhance understanding. Copying involves duplicating another person's work or ideas without adding your own input.
4. **Respect Group Contributions:** Every group member should actively contribute to the assignment's completion. Ensure that all members have a fair opportunity to participate in discussions and decision-making processes.

Consequences for plagiarism and cheating may include a failing grade for the assignment, academic probation, or more severe disciplinary actions as per university policies. Please take this note seriously and maintain the highest standards of academic integrity in your group's work. If you have any questions or uncertainties about what constitutes plagiarism or cheating, seek clarification from your instructor before submitting your assignment.

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Assignment Description

You will first set up a Jira project and then create tasks based on specific requirements. You will simulate real-world software development scenarios by creating tasks related to feature implementation, bug fixing, and new feature development. Subsequently, you will report bugs for given scenarios, providing detailed descriptions and following proper bug reporting practices.

You will have to complete three main tasks. The description of each is provided below.

Task 1: Setting up Jira

Create a Jira account. Collaboratively set up a new project named "grp#_Bug_Reporting " within Jira. Replace '#' with your actual group number, e.g., "grp07_Bug_Reporting".

Task 2: Task Creation

In this part of the assignment, you will simulate the process of creating tasks for a software development project. Please follow the instructions carefully.

Task 2.1: Feature Implementation

Create a new task for implementing a "Login" feature for a hypothetical e-commerce website. Include the following details:

- Task summary: Implement User Login.
- Task description: Implement the user login functionality, including user authentication and session management.

Assign the task to one member of your group.
Set the task priority to 'High.'

Task 2.2: Bug Fixing

Create a new task for fixing a bug related to the "Add to Cart" functionality on the same e-commerce website. Include the following details:

- Task summary: Fix 'Add to Cart' Bug.
- Task description: Investigate and fix the bug where items added to the cart are not displayed correctly in the cart.

Assign the task to another member of your group.
Set the task priority to 'Medium.'

Task 3: Bug Reporting

In this part of the assignment, you will simulate the process of reporting bugs for specific scenarios. Please follow the instructions carefully.

Bug Report 3.1: Login Failure

Simulate a scenario where the "Login" feature implemented in Task 2.1 fails to work correctly.

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Create a new bug report with the following details:
- Summary: Login Failure Bug
- Description: Describe the issue in detail, including the steps to reproduce the problem.

Assign the bug to one of the remaining members of your group.
Set the bug priority to 'High.'

Bug Report 3.2: Cart Display Issue
Simulate a scenario where the bug mentioned in Task 2.2 still exists after the attempted fix.
Create a new bug report with the following details:
- Summary: Cart Display Bug.
- Description: Describe the issue, provide steps to reproduce it, and indicate any error messages or unexpected behaviour.

Assign the bug to one member of your group (different from bug report 3.1).
Set the bug priority to 'Medium.'

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

A Guiding Template for Submission

The below shows an example of a template that you can use to guide your submission.

Front Page
[your details, e.g., group #, names, IDs, assignment, date, etc.]

1. Summary
[In one or two paragraphs describe what you did as a group, e.g., who did what]

2. Table of contents

3. Reflections (100 – 150 words)
[What did you learn? What worked? What did not work as a group? How can you improve for next assignment?]

4. Tasks and Bugs Reported

4.1 Task/Bug Title [For example, Task 2.1 Login]

4.1.1 The log
[Describe what you did. For example, creation of task/bug summary and description. Assigning it to [First name] [Last name]. Dates, etc].

4.1.2 Demonstration
[Things you are submitting to demonstrate what you did and what you learned. For example, your detailed description of the task goes in here, along with any evidence, e.g., screenshots]

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Assessment Criteria

The table provided outlines the assessment criteria and grading breakdown for evaluating your performance. Utilise these guidelines as a reference and consistently strive for excellence in your work.

Criteria	Excellent (4)	Proficient (3)	Basic (2)	Needs Improvement (1)	Not Demonstrated (0)
Task Setup (Task 1) (/4)					
- Successfully set up a Jira project as a group					
Task Creation (Task 2) (/12)					
- Collaboratively created tasks with clear details					
- Assigned tasks appropriately within the group					
- Set appropriate task priorities					
Bug Reporting (Task 3) (/16)					
- Collaboratively created bug reports with clear details					
- Assigned bugs appropriately within the group					
- Set appropriate bug priorities					
- Demonstrated thorough understanding of bug reporting best practices					
Collaboration and Communication (/8)					
- Effective communication within the group					
- All group members actively contributed to tasks and bug reports					
Reflection (/4)					
- Submitted a well-written collaborative reflection					

Faeq Alrimawi
Computer Science & Information Systems
University of Limerick

CS4004 – Software Testing & Inspection
AY24-25 SEM 1
04/10/2024

Comments:

- *Excellent (4)*: The group consistently demonstrated a high level of collaboration, communication, and proficiency in using Jira. All tasks and bug reports were well-documented and appropriately assigned. The collaborative reflection showcased insightful analysis.
- *Proficient (3)*: The group effectively worked together and generally met the assignment requirements. There may be minor areas for improvement in terms of documentation or communication.
- *Basic (2)*: The group made some effort but faced challenges in collaboration, task creation, or bug reporting. The work lacked detail or required improvements in communication.
- *Needs Improvement (1)*: The group struggled with collaboration, resulting in incomplete or inadequate tasks and bug reports. Communication issues were evident.
- *Not Demonstrated (0)*: The group did not attempt or did not demonstrate any effort in completing the assignment's requirements.

Overall Group Score: (<Overall Score> / 44) (*15)