This project consists of **two sprints**, each of which is two weeks long. The learners need to work in squads to achieve the expected sprint outcomes.

**Sprint 1**

Expected outcomes that must be produced by the team include:

**Assignment 1: Create your team workspace in Confluence and Jira**

**The LIVE demo video goes here.**

To complete this assignment follow the next steps:

1. Navigate to Confluence and create a new subpage for your team under Team Workspace. Follow the instruction from the video.
2. Navigate to Jira and add a label for your team in the "Restaurant food ordering project" project. Follow the instruction from the video.
3. Provide us with the link to the new page created in Confluence to complete this assignment.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Jira](https://cerebrumhubstudents.atlassian.net/) - find a project with the name "Restaurant food ordering project"

**No grading and review**

**Assignment 2: Testing checklists must be prepared for the first block of functionalities**

The main outcome of this assignment is the list of testing checklists prepared for the following functionalities:

1. Menu browsing and product preview.
2. Search and Filtering functionality.
3. Ordering functionality.

The testing checklist must cover all aspects of the functionality, that is described in the functionality description (use case). The description of functionalities is available in the Confluence under the page use cases.

Your objective is to study all necessary materials and in cooperation with your team build comprehensive testing checklists, that you'll be using for testing purposes.

⚠️You must prepare testing checklists by the end of the first week of the sprint at the latest. Otherwise, you will not have enough time for testing.

⚠️⚠️ Do not forget to mark your team meetings as completed under the "Sprint meetings" assignment.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Team chat](https://mail.google.com/chat/u/0/#chat/welcome)

|  | **Not accepted (0 stars)** | **Accepted (1 star)** |
| --- | --- | --- |
| **Criterion 1: Quality of checklists and coverage** | * The checklist is a 100% copy of the use case without additional processing. * Negative and positive scenarios are not covered. * Testing checklists are not readable - from the language and structure perspective. * The total number of checks is less than 18. | * All functionalities are covered at least by 5 checks. * All functionalities are covered in positive and negative scenarios. * The checklist is not a copy of use case, some analysis were done to logically structure the tests. * Checklists for all critical and medium priority bugs are created. * The checklist is readable and understandable. * 18 or more checks are created. |

**Functional testing and Use Case Testing**

* What is a use case and how to test using it?
* LIVE Demo of the use case testing
* What is a testing checklist and how it is used for testing
* How to create a good testing checklist based on a use case with a LIVE example
* How to use the checklist for testing

**Collaboration and agile teamwork**

* What is Sprint planning and how to conduct it
* How to organize efficient work and communication within your team
* How to organize regular standup meetings
* How to split the work between team members

**Problem-solving**

* How to find answers to my questions
* What to do if I’m stuck

**Instructions**

All general instruction.

**Assignment 3: Perform browser testing for the first block of functionalities. Report all found bugs to Jira.**

Your team’s second assignment is to test the following functionalities using the testing checklists, that you prepared during the previous assignment:

1. Menu browsing and Product preview.
2. Search and Filtering functionality.
3. Ordering functionality.

Your team must perform comprehensive testing of functionalities in different browsers with the purpose of discovering all bugs and reporting them to the development team.  
At least the following browsers must be covered:

* Google Chrome (Windows or Mac),
* Firefox (Windows or Mac),
* Safari or Android browser on the mobile device.

All discovered bugs and issues must be reported to the bug tracking system (Jira) in accordance with the guidelines, that you will find in the knowledge base.

Your objective is to study all necessary materials and, in cooperation with your team, conduct functional testing and report all discovered bugs to the Jira system.

⚠️ Do not forget to mark your team meetings as completed under the "Sprint meetings" assignment.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Food ordering application release v1](https://apps.fliplet.com/cerebrum-hub-my-food-ordering-broken-ws-6-precourse-h-6-soolfe)
* [Jira](https://cerebrumhubstudents.atlassian.net/) - find a project with the name "Restaurant food ordering project"
* [Team chat](https://mail.google.com/chat/u/0/#chat/welcome)

|  | **Not accepted (0 stars)** | **Accepted (1 star)** |
| --- | --- | --- |
| **Criterion 1: Quality of bugs structure and testing** | * More than 30% of reported bugs do not follow the recommended bug structure. * The total number of reported bugs is less than 15. * More than 60% of reported bugs are not done in accordance with the quality requirements. | * More than 80% of reported bugs are following the recommended bug structure.   + Summary is added if additional context information is needed   + Environment for testing   + OS name + version, browser name + version   + Application version   + Steps to reproduce   + Actual result   + Expected result   + Visual evidence: screenshot, gif or video - necessary in 95% of bugs * 15 or more bugs are discovered and reported. * More than 70% of reported bugs are following the recommended quality requirements.   **Quality requirements:**  The summary field which represents the title, is clear enough to understand what’s this bug is about   * preferably, has the page/component name * short high-level description of the bug   Structural blocks of the Description field can be clearly distinguished   * block names are highlighted with formatting - bold font, text style   Steps are numbered, and numbering is correct - *this way it’s easier to follow and qa can refer to steps numbers in expected result*  The issue is reproducible, description is understandable and clear  If links are used - they lead you to the correct version of the application *(in fliplet projects we have separate instance of the app sitting on a certain url)*  The screenshot has all necessary information highlighted, preferably in red (incorrect), green (correct) colors. |

**Bug reporting**

* What is a bug
* How to report bugs & Ideal bug report
* Why it is important to report bugs properly
* Examples of properly reported bugs
* What is a bug tracking software
* How to work with Jira and report bugs

**Browser testing fundamentals**

* What to consider when testing bugs in browsers

**Collaboration and agile teamwork**

* What is an Agile team and why are you learning in teams
* What is Sprint planning and how to conduct it
* How to organize efficient work and communication within your team
* How to organize regular standup meetings
* How to split the work between team members

**Problem-solving**

* How to find answers to my questions
* What to do if I’m stuck

**Review and assessment week #1**

Expected outcomes that must be produced by the team include:

**Assignment 1: Provide constructive feedback on the results of the other 2 teams**

**Video**

**How to provide constructive feedback on the results of other teams**

1. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
2. Navigate to the page Team Workspace.
3. Open the workspace of the team with the number that is next to your team number.
   1. If your Team number is 1, then take teams 2 and 3.
   2. If your Team number is 5, then take teams 6 and 7.
   3. If your Team number is the last one, then take teams 1 and 2.
4. For every team that you are assessing open the page “Testing checklists”.
5. Revise the result produced by the team and add your constructive feedback to the Comments on this page. Use the constructive feedback framework.
6. When completing this assignment send us links to the Confluence pages, where you have added feedback.

There is no grading for this assignment.

Additional reading:

* <https://www.betterup.com/blog/how-to-give-feedback>

**Assignment 2: Provide constructive feedback to your team members**

**Video**

**How to provide constructive feedback** **to your team members**

1. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
2. Navigate to the page Team Workspace and open your Team subpage.
3. Open the page “3. Feedback to the team members”.
4. Add your feedback under the section Sprint 1 Feedback.
5. For every team member give an assessment for his or her core competencies using a 1-5 scale, where 1=Poor and 5=Very good.
6. For every team member add constructive feedback using the Start-Stop-Continue framework. When adding feedback reflect on your experience of working in a team and think about what kind of feedback will help a person in growing his competencies.
7. To complete this assignment provide us with a link to the Confluence page, where you’ve added feedback.

There is no grading for this assignment.

* [Description of core competencies](https://cerebrumhubstudents.atlassian.net/wiki/spaces/P1KBQ/pages/111247361/Core+competencies)

**Assignment 3: Conduct a retrospective meeting with your team**

Video

**How to conduct a retrospective meeting**

1. Organize a video call with your team members (we recommend doing this assignment on Wednesday during the Feedback and Review week).
2. Choose who will be responsible for writing the retrospective notes down on the Confluence page.
3. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
4. Navigate to the page Team Workspace and open your Team subpage.
5. Open page “4. Retrospective”.
6. Discuss key questions with your team members and fill the page in Confluence with your answers (Sprint 1 retrospective notes).
7. Ensure that you agree on personal actionable commitments and that everyone is going to execute the next sprint to increase performance.
8. To complete this assignment provide us with a link to the Confluence page, where you’ve added your retrospective notes.

No grading for this assignment.

* <https://scrumguides.org/scrum-guide.html#sprint-retrospective>
* <https://www.youtube.com/watch?v=IXOT4FK0a1s&ab_channel=AdrianChing>

**Sprint 2**

Expected outcomes that must be produced by the team include:

**Assignment 1: Testing checklists must be prepared for the second block of functionalities.**

The main outcome of this assignment is the list of testing checklists prepared for the following functionalities:

1. Admin panel login and menu.
2. Viewing and completing orders functionalities.
3. Product management functionality (optional, if you will have time)

The testing checklist must cover all aspects of the functionality, that are described in the functionality description (use case). The description of functionalities is available in the Confluence under the page use cases.

Your objective is to study all necessary materials and, in cooperation with your team, build comprehensive testing checklists, that you'll be using for testing purposes.

⚠️You must prepare testing checklists by the end of the first week of the sprint at the latest. Otherwise, you will not have enough time for testing.

⚠️⚠️ Do not forget to mark your team meetings as completed under the "Sprint meetings" assignment.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Team chat](https://mail.google.com/chat/u/0/#chat/welcome)

|  | **Not accepted (0 stars)** | **Accepted (1 stars)** |
| --- | --- | --- |
| **Criterion: Quality of checklists and Coverage** | * The checklist is a 100% copy of the use case without additional processing. * Negative and positive scenarios are not covered. * Testing checklists are not readable - from the language and structure perspective. * The total number of checks is less than 15. | * All mandatory functionalities (excluding optional task) are fully covered at least by 8 checks. * All functionalities are covered positive and negative scenarios. * The checklist is not a copy of use case, some analysis were done to logically structure tests. * Checklists for all critical and medium priority bugs are created. * The checklist is readable and understandable. * 15 or more checks are created. |

**Functional testing and Use Case Testing**

* What is a use case and how to test using it?
* What is a testing checklist and how it is used for testing
* Practical tips for creating testing checklists
* Testing checklists examples
* How to format testing checklist in Confluence (examples)

**Collaboration and agile teamwork**

* What is Sprint planning and how to conduct it

**Assignment 2: Perform browser testing for the second block of functionalities. Report all bugs found to Jira.**

Developers have released a new version of the Food ordering application, that now has much more functionality. Your team’s second assignment is to test the following functionalities using the testing checklists, that you prepared during the previous assignment:

1. Admin panel login and menu.
2. Viewing and completing orders functionalities.
3. Product management functionality (optional, if you will have time)

Your team must perform comprehensive testing of functionalities in different browsers with the purpose of discovering all bugs and reporting them to the development team.  
At least the following browsers must be covered:

* Google Chrome (Windows or Mac),
* Firefox (Windows or Mac),
* Safari or Android browser on the mobile device.

All discovered bugs and issues must be reported to the bug tracking system (Jira) in accordance with the guidelines, that you will find in the knowledge base.

Your objective is to study all necessary materials and, in cooperation with your team, conduct functional testing and report all discovered bugs to the Jira system.

⚠️ Do not forget to mark your team meetings as completed under the "Sprint meetings" assignment.

⚠️⚠️ Let some time before the end of the sprint to work on your assignment nr 3.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Food ordering application release v2](https://apps.fliplet.com/cerebrum-hub-my-food-ordering-full-fixed-ws-12-9928-26668)
* [Jira](https://cerebrumhubstudents.atlassian.net/) - find a project with the name "Restaurant food ordering project"
* [Team chat](https://mail.google.com/chat/u/0/#chat/welcome)

|  | **Not accepted (0 stars)** | **Accepted (1 star)** |
| --- | --- | --- |
| **Criterion 1: Quality of bugs and testing** | * More than 50% of reported bugs are not following the recommended bugs structure. * The total number of reported bugs is less than 9. * More than 20% of reported bugs are not done in accordance with the quality requirements. | * More than 80% of reported bugs are following the recommended bugs structure.   + Summary is added if additional context information is needed   + Environment for testing   + OS name + version, browser name + version   + Application version   + Steps to reproduce   + Actual result   + Expected result   + Visual evidence: screenshot, gif or video - necessary in 95% of bugs * 9 or more bugs are discovered and reported. * More than 80% of reported bugs are following the recommended quality requirements.   **Quality requirements:**  The summary field which represents the title, is clear enough to understand what’s this bug is about   * preferably, has the page/component name * short high-level description of the bug   Structural blocks of the Description field can be clearly distinguished   * block names are highlighted with formatting - bold font, text style   Steps are numbered, and numbering is correct - *this way it’s easier to follow and qa can refer to steps numbers in expected result*  The issue is reproducible, description is understandable and clear  If links are used - they lead you to the correct version of the application *(in fliplet projects we have separate instance of the app sitting on a certain url)*  The screenshot has all necessary information highlighted, preferably in red (incorrect), green (correct) colours. |

**Bug reporting**

* How to report bugs & Ideal bug report
* How to close solved bugs in Jira
* Samples of bugs reported in a great way (inspiration)

**Assignment 3: Execute regression testing and prepare the final testing report**

⚠️ This assignment must be started after you have finished Assignments Nr. 1 and Nr. 2.

Our first project is nearly finished, and it is time to prepare the final testing report. The final testing report must provide an overview of the whole application’s stability and contain the results of your recent regression testing.

Your team’s assignment is to retest all the functionalities that you have previously covered by testing checklists:

1. Menu browsing and Product preview.
2. Search and Filtering functionality.
3. Ordering functionality.
4. Admin panel login and menu.
5. Viewing and completing orders functionalities.
6. Product management functionality (optional, if you will have time)

Your team must perform regression testing of functionalities in different browsers with the purpose of discovering all bugs, reporting them to the development team, and closing all bugs, that were solved by the development team.  
At least the following browsers must be covered:

* Google Chrome (Windows or Mac),
* Firefox (Windows or Mac),
* Safari or Android browser on the mobile device.

You must create the final testing report as a result of your regression testing and upload it to Confluence under your team’s subpage. Follow the guidelines to understand expectations.

Your objective is to study all necessary materials and, in cooperation with your team, to:

1. Conduct regression testing,
2. Update Jira according to your testing results,
3. Prepare the Sprint testing report.

⚠️ Do not forget to mark your team meetings as completed under the "Sprint meetings" assignment.

**Useful links:**

* [Confluence](https://cerebrumhubstudents.atlassian.net/wiki/home) - find a space with the name "Restaurant food ordering project"
* [Food ordering application release v2](https://apps.fliplet.com/cerebrum-hub-my-food-ordering-full-fixed-ws-12-9928-26668)
* [Jira](https://cerebrumhubstudents.atlassian.net/) - find a project with the name "Restaurant food ordering project"
* [Team chat](https://mail.google.com/chat/u/0/#chat/welcome)

|  | **Not accepted (0 stars)** | **Accepted (1 star)** |
| --- | --- | --- |
| **Criterion 1: Quality of testing report and regression testing** | * The testing report doesn’t contain all previously created checklists. * Results table looks not readable. * Report is hard to follow and there is no clear overview of the regression testing results. * All previously created testing checklist points are not retested in at least 2 browsers. | * The testing report contains all previously created checklists. * Results table looks tidy and readable. * Report is easy to follow and is informative (checkpoint description gives an understanding of what was tested) * Results are structured - every checklist is marked as a separate section. * Color coding is used correctly (greed - passed, red - failed) * All non-passing checks have either a bug, or a comment describing the reason * It is clear who tested, when and on which environment (OS + browser data) * All previously created testing checklist points are fully retested in at least 2 browsers. |

**Regression testing and reporting**

* What is a regression testing
* How to conduct regression testing efficiently
* What is a Sprint testing report
* How to build a Sprint testing report in Confluence
* Sprint report samples

**Review and assessment week #2**

**Assignment 1: Provide constructive feedback on the results of the other 2 teams**

**How to provide constructive feedback on the results of other teams**

1. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
2. Navigate to the page Team Workspace.
3. Open the workspace of the team with the number that is next to your team number.
   1. If your Team number is 1, then take teams 2 and 3.
   2. If your Team number is 5, then take teams 6 and 7.
   3. If your Team number is the last one, then take teams 1 and 2.
4. For every team that you are assessing open page “2. Final report”.
5. Revise the result produced by the team and add your constructive feedback to the Comments on this page. Use the constructive feedback framework.
   1. You are assessing their Final reports, Testing checklists and Bugs registered in Jira.
6. When completing this assignment send us links to the Confluence pages, where you have added feedback.

There is no grading for this assignment.

Additional reading:

* <https://www.betterup.com/blog/how-to-give-feedback>

**Assignment 2: Provide constructive feedback to your team members**

Video (same as in previous review week)

**How to provide constructive feedback** **to your team members**

1. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
2. Navigate to the page Team Workspace and open your Team subpage.
3. Open the page “3. Feedback to the team members”.
4. Add your feedback under the section **Sprint 2 Feedback**.
5. For every team member give an assessment for his or her core competencies using a 1-5 scale, where 1=Poor and 5=Very good.
6. For every team member add constructive feedback using the Start-Stop-Continue framework. When adding feedback reflect on your experience of working in a team and think about what kind of feedback will help a person in growing his competencies.
7. To complete this assignment provide us with a link to the Confluence page, where you’ve added feedback.

There is no grading for this assignment.

* [Description of core competencies](https://cerebrumhubstudents.atlassian.net/wiki/spaces/P1KBQ/pages/111247361/Core+competencies)

**Assignment 3: Conduct a retrospective meeting with your team**

Video (same as in the previous review week)

**How to conduct a retrospective meeting**

1. Organize a video call with your team members (we recommend doing this assignment on Wednesday during the Feedback and Review week).
2. Choose who will be responsible for writing the retrospective notes down on the Confluence page.
3. Navigate to Confluence and find a project with the name “Restaurant food delivery project”.
4. Navigate to the page Team Workspace and open your Team subpage.
5. Open page “4. Retrospective”.
6. Discuss key questions with your team members and fill the page in Confluence with your answers (Sprint 2 retrospective notes).
7. Ensure that you agree on personal actionable commitments and that everyone is going to execute the next sprint to increase performance.
8. To complete this assignment provide us with a link to the Confluence page, where you’ve added your retrospective notes.

No grading for this assignment.

* <https://scrumguides.org/scrum-guide.html#sprint-retrospective>
* <https://www.youtube.com/watch?v=IXOT4FK0a1s&ab_channel=AdrianChing>

**Assignment 4: Update your learning diary**

It is time to update your Personal Growth diary based on the results and experiences of the previous month. You now have the opportunity to review all the feedback, revise your priorities, and if necessary, adjust your focus.

**How to update your diary**

1. Open your Personal Growth Diary, which you created at the beginning of the program.
2. Find the “Month 2” section in your diary.
3. Copy the feedback and assessments of your team from the Confluence page “3. Feedback to the team members” to the Diary.
4. Revise your vision, priorities and objectives, that you set for Month 1.
5. Reflect back on your learning and working experience and based on that fill the section Month 2.
6. To complete this assignment provide us with a link to your Personal Growth Diary that must be stored in Google Drive.

There is no grading for this assignment.

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