

Test Plan

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1. Change history

Version	Date	Author	Comments
1.0	13.12.2023	Andrey.N	
1.1	20.12.2023.	Andrey.N	
1.2	21.12.2023	Andrey.N	

2. Introduction

This document describes the approach and methodologies used by the testing team to plan, organize and perform the testing applications of the Group&Work application. Group&Work is a project management web application. The application consists of many related modules such as Dashboards, Projects, Tasks, Files, Calendar, which allow you to exercise full control over the process and the development team at every step online.

3.Scope of work

a. Components and functions to be tested

	Application/ component name	Function name	Reference/ comments
1	Log in component	Registration in the system. Allows the user to access the functionality of the application.	There are no specifications for the application.
2	User profile component	User account management and third-party connections.	
3	Dashboard component	It allows the user to track upcoming tasks, active projects and goals.	

4	Project component	Allows the user to add information, as well as upload files, use notes, chat and downloaded files.	
5	Tasks component	Allows the user to set tasks for projects, as well as change and track their status.	
6	Chat component	Allows the user to exchange messages with project participants, as well as send various files.	
7	Files component	Allows the user to view and download files using Google Storage and Microsoft.	
8	Notes component	Allows the user to create various notes, upload files and attach these notes to projects.	
9	Text editor component	Allows the user to create and edit text, as well as insert images, tables, links, and so on.	
10	GUI component	The module provides a graphical representation of the functions and logic of the application.	

b. Components and functions not to be tested.

	Application/ component name	Function name	Reference/ comment
1	Group&Work	Goals function	It is impossible to determine exactly what the function should do, since it is in the paid version.
		Metrics function	It is impossible to determine exactly what the function should do, since it is in the paid version.
		Support function	It is not possible to check the operation of this function because there is no contact with the support team of this application.
		Ukrainian localization	It is not possible because of lack of experience of the testing team for such activities

c. Third-party components

	Component name	Component role	Reference/Comment
1	Google Storage	Allows the user to use files that are in his Google account.	There are no specifications for the application.
2	Microsoft One Drive	Allows the user to use files that are in his Microsoft One Drive account.	
3	Google Calendar	Allows the user to connect his calendar and displays it inside the application.	
4	Microsoft Outlook	Allows the user to connect his calendar and displays it inside the application.	

4. Quality and acceptance criteria

- Meet a schedule and complete testing in term.
- Since the product is already in release, it should not contain bugs with severity Critical and Major, after testing.
- The application will be considered to pass the quality criteria if
 - 100% of the Smoke test cases will be completed successfully.
 - 80% of the Critical path test cases will be completed successfully.
 - 75% of the Extended testing test cases will be completed successfully.
- The total number of successful test cases of all types should be 80%.

5. Critical success factors

- People Involved have sufficient time scheduled for test project.
- Identify the maximum number of bugs with priority Critical and Major.
- Creation and execution of the maximum number of test-cases covering the functional and non-functional part of the product.
- Maintaining constant interaction within the team.
- Strict adherence to the test plan and compliance with deadlines at all stages.
- Continuous improvement and acquisition of necessary knowledge by the team.

6. Risk management

Possible risks	Probability	Impact on the project	Methods of control
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Group&Work web application may stop working because the testing team does not know anything about the future of this product.	High	Critical	The team with the head should find a new project for testing.
Students of the testing group may stop working on the project due to external or unforeseen circumstances.	Medium	Medium	Reallocation of responsibilities of an absent student.
Team member lack the required skills for website testing.	Medium	Medium	Continuing to take courses should minimize this risk.
A lack of cooperation negatively affects test team's productivity.	Low	Critical	The team must have a meeting schedule and follow it.
Incorrect prioritization may affect the application's coverage with tests and not finding bugs with high severity.	Medium	Minor	The team's joint review of test cases and checklists.
Huge uncertainty in Scope of work. Due to lack of experience, the testing team may not meet the deadlines specified in the Testing schedule.	Medium	Medium	Drawing up checklists. Checking areas that are not affected by them.

7. Resources

7.1. Key Project Resources

	Project role	Name, e-mail, location
1	Project Coordinator	Kruk Sergey, kruk.sergey@yandex.ru , Poland.

7.2. Test Team

	Project Role	Name	Location	Responsibilities
1	Manual testing	Nepokulchickiy Andrey	Gomel, Belarus	Functional testing of text editor, Non-Functional localization testing and Accessibility testing testing
2	Manual testing	Shaminski Ihar	Bobruisk, Belarus	Functional testing of the project component of the application
3	Manual testing	Pismennaya Natallia	Gomel, Belarus	Functional testing of form fields , password , profile of the application
4	Manual testing	Chigarin Dmitriy	Gomel, Belarus	Functional testing of file manager and notes
5	Manual testing	Kuznetsova Lyudmila	Voronezh. Russia	Functional testing of tasks component and chat component

7.3. Test tools

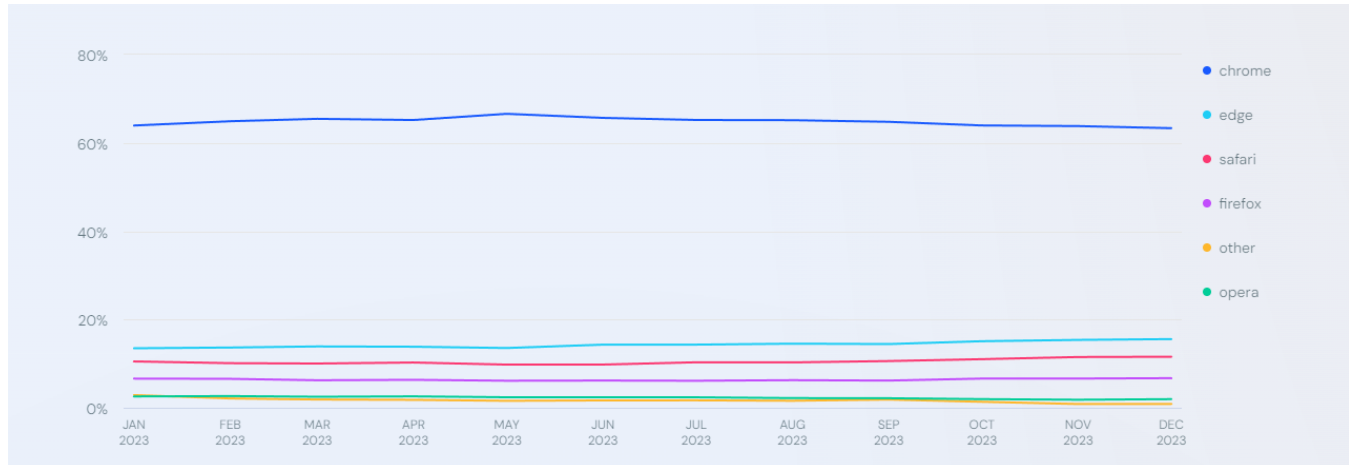
	Tool	Comment
1	Jira	This plugin is used to create and store test cases and bug reports.
2	WAVE	It is used to test accessibility and compliance with WCAG criteria.
3	Screen Reader	It is used to test accessibility and compliance with WCAG criteria.

8. Test documentation

	Title	Responsible person(s)	Frequency (delivery time)	Method of delivery
1	Group&Work test plan	All team	Once before the testing start (25.12.2023)	https://conf.it-academy.by/pages/resumedraft.action?draftId=110756611&draftShareId=4a79e788-a218-4947-98c1-762fdb3f4369&
2	Group&Work check-list	All team	Before the testing start (31.12.2023)	https://conf.it-academy.by/display/GLDST15223/Checklists
3	Group&Work test-cases	All team	Before the testing start (20.01.2024)	https://jr.it-academy.by/secure/XrayTestRepositoryAction!default.jspa?entityKey=GLDST5223D&path=Group%26Work
4	Group&Work bug reports	All team	Upon finding a bug	https://jr.it-academy.by/projects/GLDST5223D/issues/GLDST5223D-73?filter=allopenissues&orderby=priority+ASC%2C+updated+DESC
5	Test Result Report	Team lead	Weekly	https://conf.it-academy.by/display/GLDST15223/TRRs
6	Matrices	All team	During the testing	Checklists

9. Test strategy

The main method of product verification will be manual functional testing using the "black box" method. This method does not imply any special knowledge about the configuration and internal structure of the test object. Since the application is already in release and the testing team does not have access to the requirements and specifications, Exploratory Testing will be applied on the project, which implies that the team actively explores the software under test, using its knowledge and experience to identify and verify potentially problematic areas. It also implies adding or creating new test cases as the tests are completed. The team will focus on cross-browser testing on PC versions of browsers. The choice and preference of browsers for testing are based on current statistical data which was taken from [similarweb.com](https://www.similarweb.com). Mobile testing is not possible because the application is originally intended for PC use and the mobile version of the web application is not functional.



9.1. Entry criteria

- Completing the creation of a test plan.
- Completion creating checklists for components and applications.
- Completing the creation of test cases based on the checklist.
- Preparation of the test environment and necessary tools.

9.2. Test methods

Testing is the process of attempting to find discrepancies between the program and its functional specification/ requirements. The goal is to make sure that all functions of the Group&Work application work correctly.

- **Manual functional testing** – is considered as the main method of the application testing.

9.3. Test types

As mentioned above, the main types of application Group&Work testing will be:

- **Component testing.** Component testing will be used to test the various individual modules that make up the application. It will be used to test the various individual modules that make up the application. This will allow the team to identify the presence of bugs and the areas in which they are located.
- **Integration testing.** Integration testing will be used to check the interaction of various modules in the application, since the main functionality of the application depends on these interactions.
- **Compatibility Testing.** This testing type ensures an application functions correctly across different platforms, browsers, and devices.
- **Localization testing.** This testing validates that an application is adapted to different languages.
- **Accessibility testing.** This is testing the application for compliance with the individual recommendations of the document (Web Content Accessibility Guidelines (WCAG) 2.1.)

Below is a list of the types of testing that will not be used:

- **Performance testing** .The team is testing a third-party product. This testing will be a violation of the laws.
- **Security testing.** This type of testing requires special knowledge and skills, as well as access to the product.

9.4. Test levels

Smoke Test is performed to quickly assess the readiness of the product for further more deep and thorough testing. It includes testing Group&Work application major functions on the one most often used and consequently most important configuration.

Critical Path Test will be performed after Smoke Test is passed. The goal of the Critical Path Test is to find bugs that could affect the major functionality of the application that is most important for the product users. Critical Path Test will be performed manually according to Group&Work Test Cases document on all platforms to be certified.

The **Extended Test's** goal is to find bugs related to the non-typical but still possible and likely usage scenarios (e.g. entering the incorrect data into the fields, boundary testing and so on). Extended Test will be performed according to test cases and using ad hoc testing scenarios. Since the testing team does not have access to the requirements and specifications.

9.5. Bug and documentation tracking

The main tool for bug reporting and documentation tracking will be used **Jira(X-Ray)**. The bug metrics and statistics will be included in the test results reports.

The main attributes for bug reports in Jira are:

- ID
- Summary
- Description
- Steps to reproduce
- Expected results
- Actual results
- Symptoms
- Severity
- Attachments
- Reproducible
- Created date

9.6. Bug severity definition

Critical – Application, component or module crash or are not accessible.

Major – Data corruption/loss, a problem in major functionality, no workaround is known.

Medium – A problem with workaround, secondary features do not work properly.

Minor – Cosmetic flaw.

9.7. Exit criteria

- The end of the time scheduled for testing activities.
- All planned test cases have been completed and the results are reflected in the Jira.
- All detected bugs are listed in the bug tracker and designed according to the requirements of the test plan.
- Creating the final TTR.
- Presentation and report on the work done by the team.

10. Testing schedule

#	Activity	Begin Date	End Date	Assignment	Location	Work content
	Test plan creation	12.12.2023	25.12.2023	Team Lead		
	Checklists creation	25.12.2023	31.12.2023	All team		
	Test cases creation	01.01.2024	20.01.2024	All team		
	Test cases execution	01.01.2024	20.01.2024	All team		
	Bug report creation	10.01.2024	30.01.2024	All team		
	Final TRR creation	22.01.2024	01.02.2024	Team Lead		
	Presentation creation	30.01.2024	08.02.2024	All team		
	Final	13.02.2024		All team		

