Testing types for todoist desktop app

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Agenda

- Application overview
- Smoke testing
- Functional testing
- Non-functional testing
- Confirmation testing
- Regression testing

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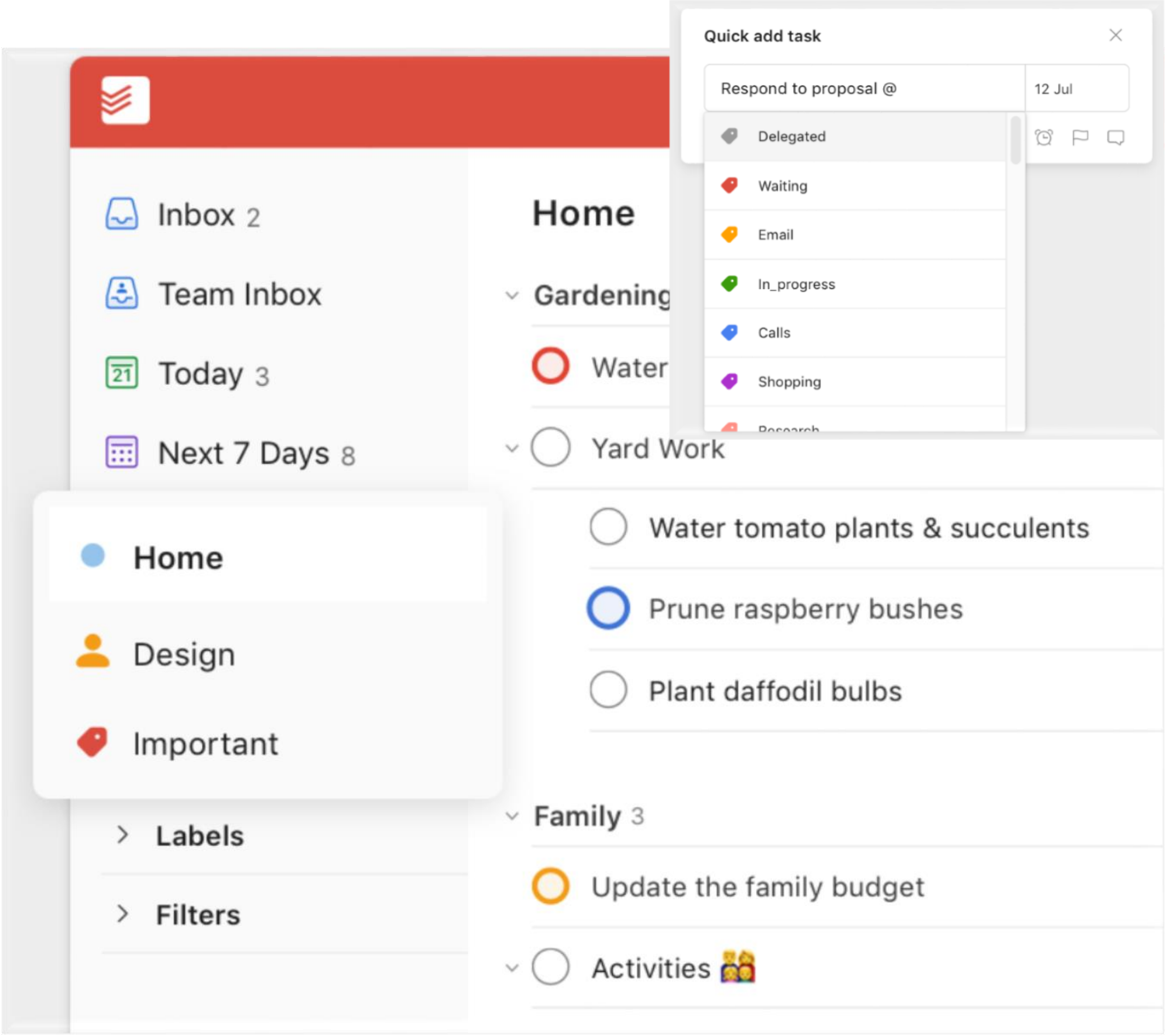
The application overview

Todoist is the task manager, web service, and software suite for project management and task management

The main features:

1. Create tasks and sub-tasks
2. Set reminders
3. Organize tasks into projects
4. Add labels and priorities
5. Collaborate with others
6. Track progress



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12 Jul

Smoke testing

Task: Test new version of the Todoist application (Desktop v. 9879 Windows)

Smoke testing procedure: Verify that the most critical functionalities (running the application, creating a task, editing a task, marking task as complete) are working

SCENERIO	STATUS
The app can be launched without any errors	✓
The user can create a new task and add it to the task list	✓
User can edit a task (change the due date or priority level)	✓
User can mark a task as complete	✓

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Functional testing #1

Requirement: users should be able to create new projects to organize their tasks.

Task: verify that the Project creation feature works as expected.

Preconditions:

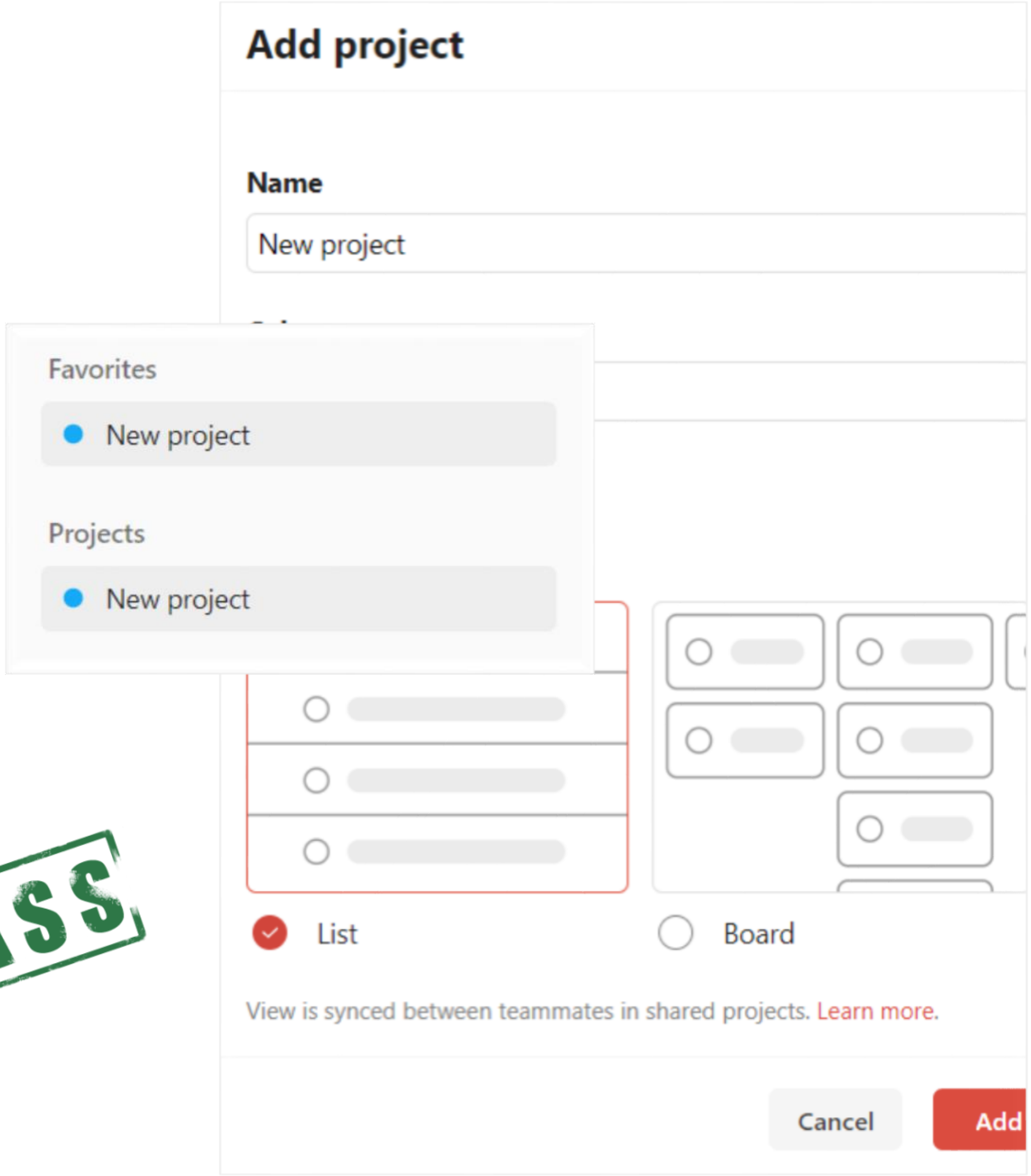
1. The Todoist app is installed
2. The user is logged in with a valid account

Steps:

1. Hover the cursor over "Projects" tab in the navigation menu
2. Click on the "+" icon
3. Enter a name for the new project in the "Name" field
4. Click on the "Add" button

Expected result: The new project is created and displayed in the list of projects and in the list of “Favorites".

PASS



Add project

Name: New project

Favorites
- New project

Projects
- New project

● List ○ Board

View is synced between teammates in shared projects. Learn more.

Functional testing #2

Requirement: users should be able to use the search function to locate specific tasks.

Task: verify the functionality of the search bar in Todoist app

Preconditions:

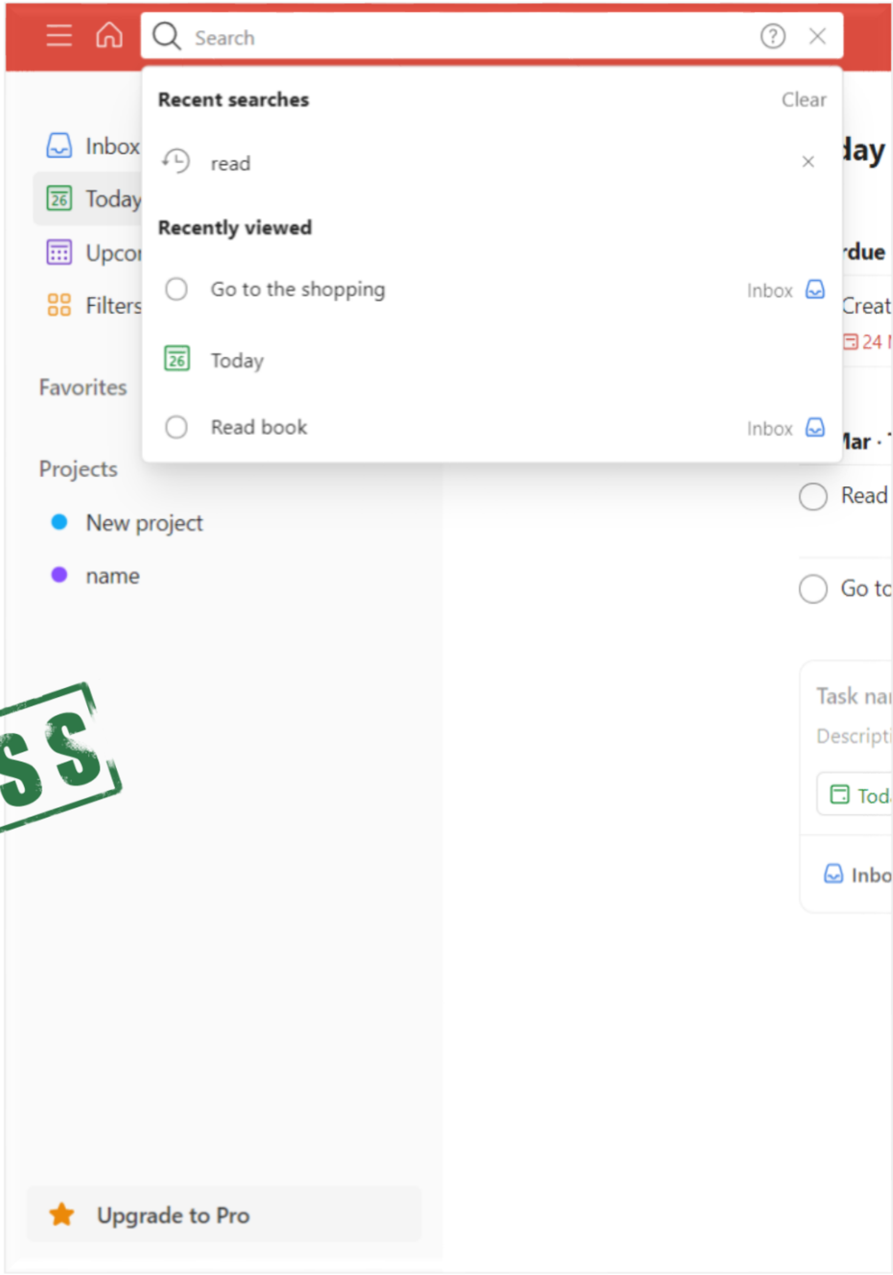
1. The Todoist app is installed and logged in with a valid account
2. Several tasks are added to the account

Steps:

1. Click on the search bar to activate it.
2. Enter a search query for a specific task or keyword related to a task.
3. Click on the "X" button next to the search bar to close the search window.
4. Click on the search bar once again
5. Click the button "clear " in the "recent searches" drop-down menu.

Expected Results: the app should display relevant results for the entered search query. Search window could be closed by clicking on the "X" button. The recent searches drop-down menu could be cleared by clicking on the "Clear" button.

PASS



Nonfunctional testing

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Compatibility testing

Requirement: the users should be able to create and edit tasks in the Todoist from Google Calendar and vice versa, and see the results of their actions on both platforms

Task: verify that the Todoist desktop app is compatible with Google Calendar

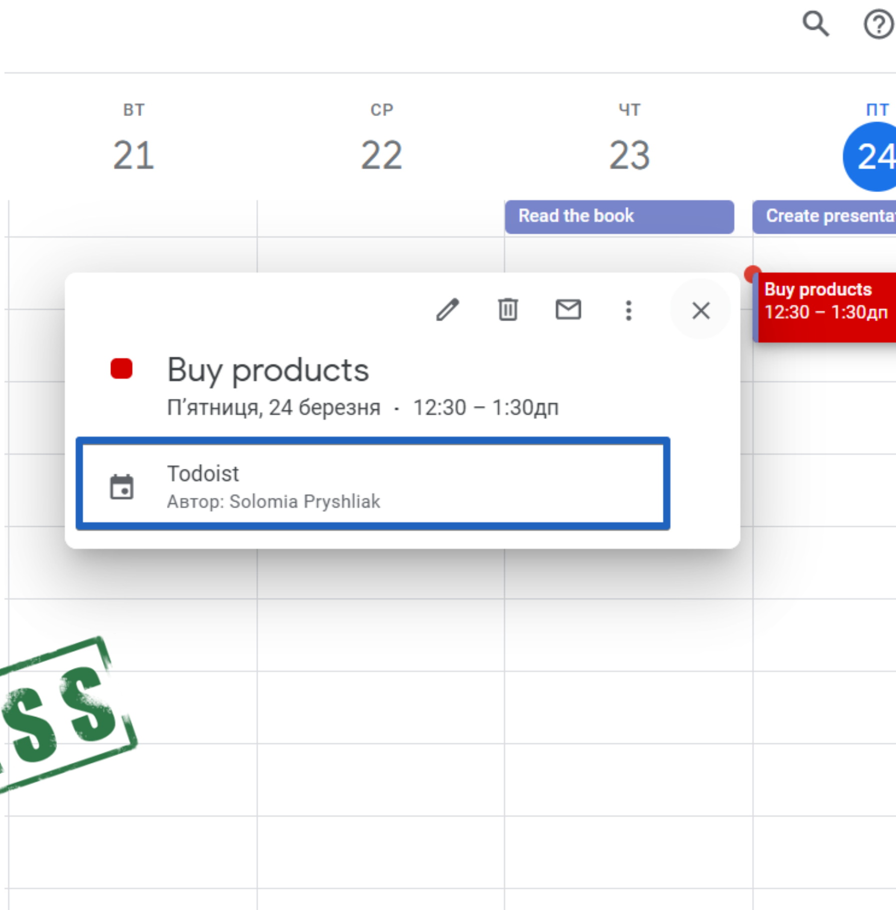
Preconditions:

1. The Todoist desktop app is installed.
2. A Google Calendar account is set up.

Steps:

1. Open the Todoist app and navigate to the "Settings" menu.
2. Click on "Integrations" and select "Google Calendar."
3. Log in to the Google Calendar account.
4. Test the app's ability to create new tasks in Google Calendar from the Todoist app.
5. Test the app's ability to update tasks in Google Calendar from the Todoist app.

Expected result: the app is able to create, update, edit and retrieve tasks in the Todoist app from Google Calendar and vice versa without any errors or delays. The synchronization of data between Google Calendar and the Todoist app is consistent and up to date.



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Todoist
Автор: Solomia Pryshliak

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Portability testing

Requirement: the app should be portable across different versions of Windows operating systems

PASS

Task: test the compatibility of the Todoist desktop app in various versions of Windows operating systems

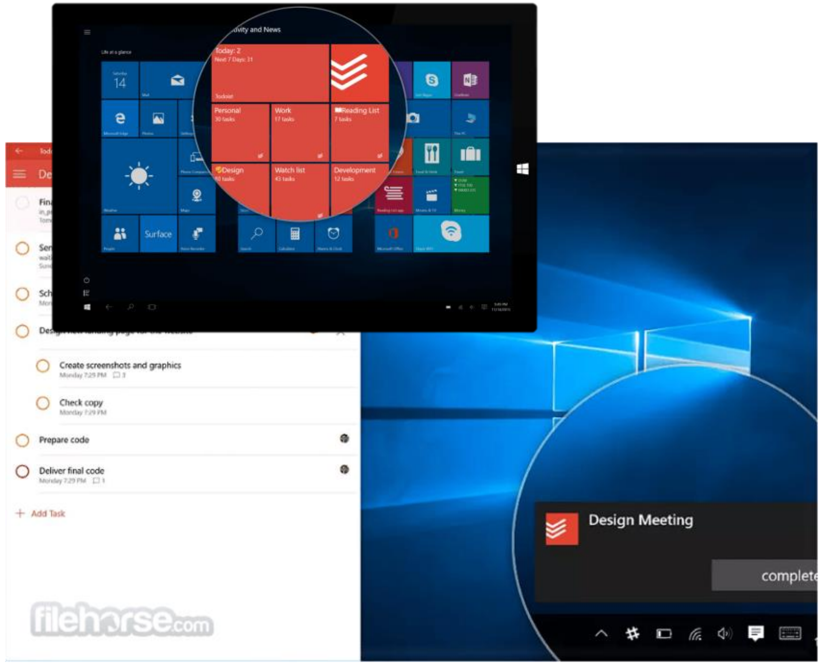
Preconditions:

1. The Todoist desktop program is downloaded and installed on a Windows machine
2. Access to different versions of Windows operating systems (Windows 7, Windows 8, Windows 10, Windows 11)

Steps:

1. Install and open Todoist on a machine running Windows 7
2. Conduct a smoke testing
3. Repeat Step 1 and 3 with Windows 8, Windows 10 and Windows 11

Expected result: the app works seamlessly and smoothly across different versions of Windows operating systems.



Localization testing

Requirement: users should be able to change localization of the application. All UI elements have to be translated.

Task: verify that all UI controls, content, and functionality of the app are translated when the user changes the language from English to German.

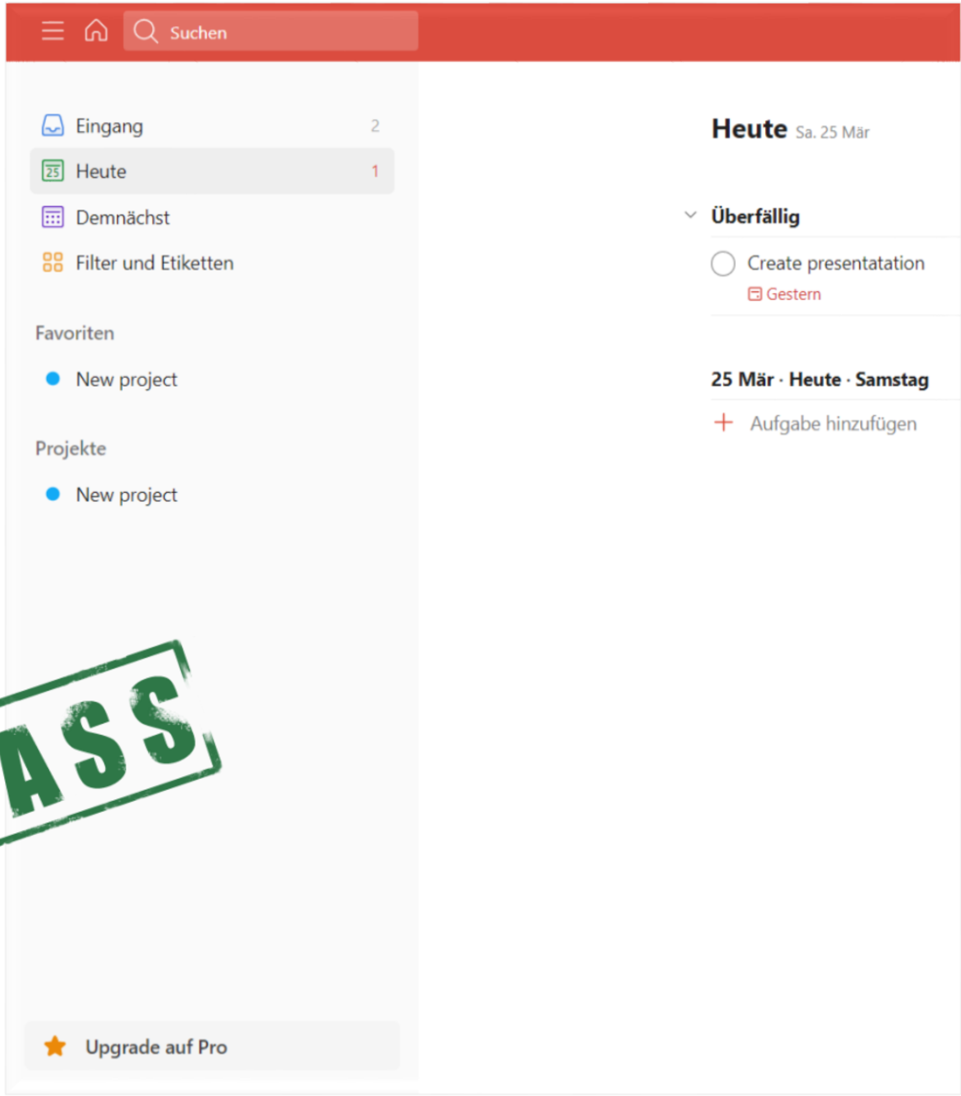
Preconditions:

1. The Todoist app is installed and set to the English language.
2. The user is logged in and has a few tasks added to the account.

Steps:

1. Navigate to the General settings page.
2. Change the language setting from English to German.
3. Check all labels and captions whether they are translated into German, localized and not truncated

Expected result: the app's content, including task descriptions, help pages, error messages, pop-ups and settings, are translated into German



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Accessibility testing

Requirement: Todoist desktop app should be available for the users using screen readers.

Task: verify that basic functions can be performed by users who rely on screen readers.

Preconditions:

1. The Todoist app is installed and launched
2. A screen reader is installed and enabled on the computer (e.g. Narrator, JAWS, NVDA).

Steps:

1. Using the screen reader, navigate to the "Add Task" button
2. Create a new task by entering a task name and pressing the enter key
3. Using the screen reader, edit the task by changing the task name
4. Using the screen reader, navigate to the checkbox next to the task you just edited
5. Mark the task as completed by checking the checkbox.

Expected result: the screen reader reads out all the relevant information. The user is able to perform all the basic functions (creating a new task, editing a task, and marking it as completed) using the screen reader. The program responds appropriately to user inputs

PASS

UI testing

1.	**Alignment**	The alignment of all UI controls matches the mockup in terms of the position and size.	✓
2.	**Typography**	The font family, font size, and font weight are consistent with the mockup	✓
6.	**Colors**	The color scheme used in the page matches the mockup	✓
3.	**Spelling**	Spelling of all displayed elements does not contain errors	✓
4.	**Resizing**	All elements adjust to changes in window sizes	✓
5.	**Controls**	All required controls are present	✓
6.	**Tabulation**	Tabulation is consistent and properly aligned	✓

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Performance testing

Requirement: the app should handle a load of 3000 concurrent users with an average response time of 3 seconds per request.

Preconditions:

1. The Todoist app is installed and running.
2. JMeter is installed and configured

Steps:

1. Define the user actions that will be used (creating, completing and editing a task)
2. Set the load level of 3000 concurrent users.
3. Start the performance test and monitor the response time and resource utilization of the app.

PASS

Expected results: the Todoist app can handle a load of 3000 concurrent users with an average response time of no more than 3 seconds per request.

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Load testing

Requirement: the app should handle a load of 3000 concurrent users with an average response time of 3 seconds per request.

Task: To measure the response time of the app while increasing the user load

Preconditions:

1. The Todoist app is installed and running.
2. JMeter is installed and configured

PASS

Steps:

1. Define the user actions that will be used (creating, completing and editing a task)
2. Set the load level of 3000 concurrent users and gradually increase it to (4000, 5000, 6000).
3. Start the load test and monitor the response time and resource utilization of the app.

Expected results: the Todoist app can handle a load of 300-6000 concurrent users with an average response time of no more than 3 seconds per request.

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Stress testing

Requirement: the app should handle a load of 3000 concurrent users with an average response time of 3 seconds per request.

Task: Verify the load-handling capacity of the Todoist app by simulating a high volume of concurrent users and tasks.

PASS

Preconditions:

1. The Todoist app is installed
2. Stress testing software is installed available

Steps:

1. Define the user actions that will be used (creating, completing and editing a task)
2. Emulate amount of request more than the allowed value: 3001, 3010, 3500 and 4000 concurrent users.
3. Start the load test and monitor the response time and resource utilization of the app.

Expected results: the server isn't crashed due to overload and any data isn't losed.

Installation/uninstallation testing

Requirement: user should be able to install and uninstall the app properly on the desktop computer

Task: ensure that the app installation/ installation process can be complete without any errors

Preconditions:

1. Available Todoist Desktop app package file.
2. Available desktop computer with supported operating system.
3. Sufficient storage space available on the computer.

PASS

Steps:

1. Once the installation process is completed, launch the app and check if it opens successfully without any errors. Make a smoke testing.
2. Verify that the Todoist app is located on the computer and displayed in the list of application
3. Complete the uninstallation process and check if the app is removed from the desktop completely (with all the files written on the disk)

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