

Logicblocks by Techlignce Robotics

Task Team D

November 10, 2023

1 Introduction

Welcome to your task of Logicblocks, by now you must have been familiar with the concept of block based programming. So without any further delay lets dig into the the tasks.

Important : All the **underlined** text are **links**, which might not be visible based on your application, so do not forget to click any underlined text throughout the document and make sure to follow the coding standards given in the file.

2 Save-Load Workspace

The objective of this task is to implement "Save Workspace" and "Load Workspace" functionalities within the Blockly workspace. These features should allow users to save their current workspace state to a local file in a new folder named as "**Saved Projects**" with an appropriate name and subsequently load a saved state back into the workspace.

Place "Save Workspace" and "Load Workspace" buttons in an easily accessible location within the Blockly application.

2.1 Blockly's Export/Import

Blockly has built-in methods for exporting and importing the workspace to and from XML. A list of already available functions is provided here

i. Use **Blockly.Xml.workspaceToDom(workspace)** to export the workspace to an XML DOM.

ii. Use **Blockly.Xml.domToWorkspace(xml, workspace)** to import the workspace from an XML DOM.

2.2 Test

A good test would be to check if **Load workspace** button would load the same workspace you saved using **Save workspace** button.

2.3 Note

Always try to create new component files every time you implement a distinct feature or functionality. This enhances modularity, improves code readability, and simplifies debugging.