



Explanation of menus, settings and interaction tools

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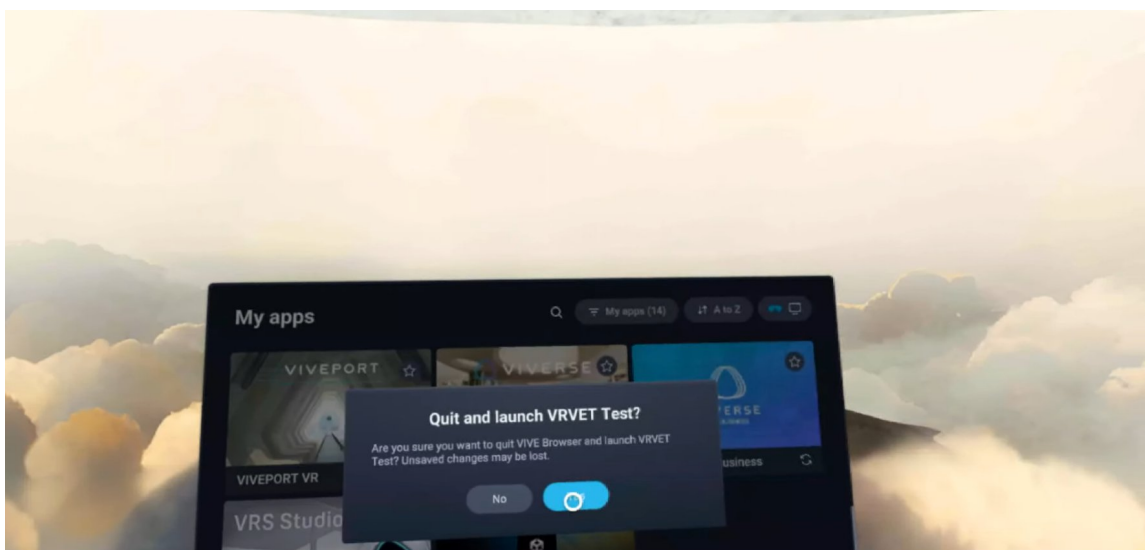
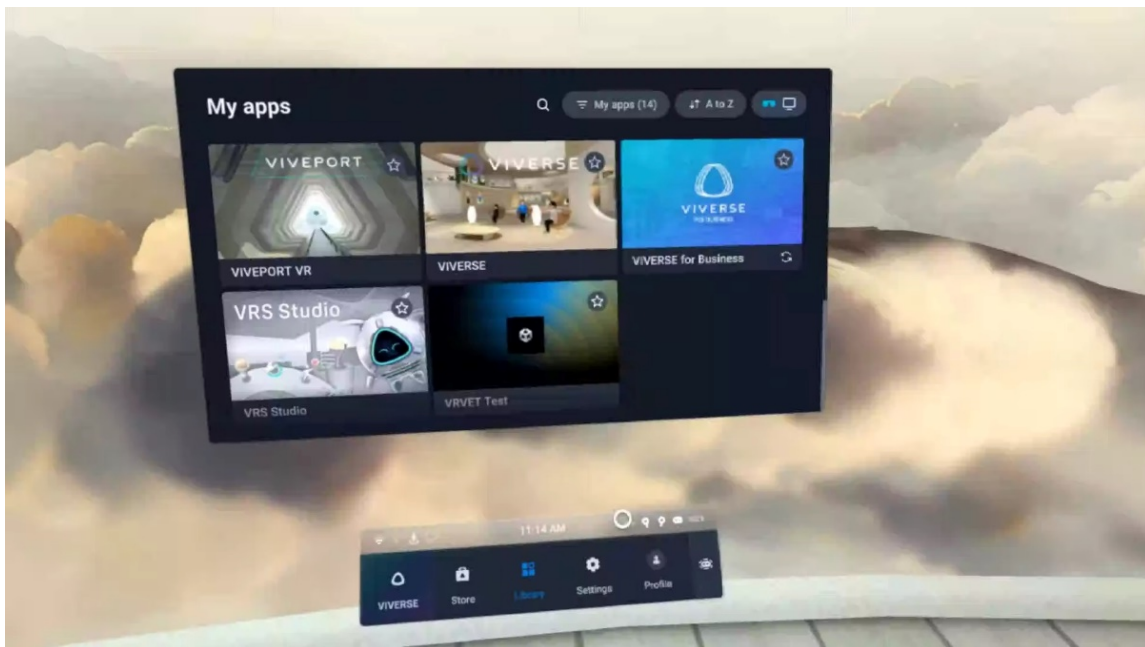
This guideline describes the operational steps, menus, settings, and interaction tools used in the VR VET application with the HTC VIVE headset. It outlines the procedure from launching the system to completing the NDT process within the virtual environment.

Launching the VR VET Application

After turning on the HTC VIVE headset, the lobby screen appears. To access the VR VET application:

- Open the **Library** by pressing any trigger button on the controller.
- Select the **VR VT Test** application using the trigger button.

When prompted to launch the VR VET application, select **OK** by pressing the trigger button. Once launched, the main menu of the VR VET application is displayed.





Application Menu Overview

The main menu provides access to all available features. Users can select any menu option by pressing the controller trigger button.



- Tutorial Guide

When the **Tutorial Guide** menu is selected, instructional content is displayed to guide users through the system.





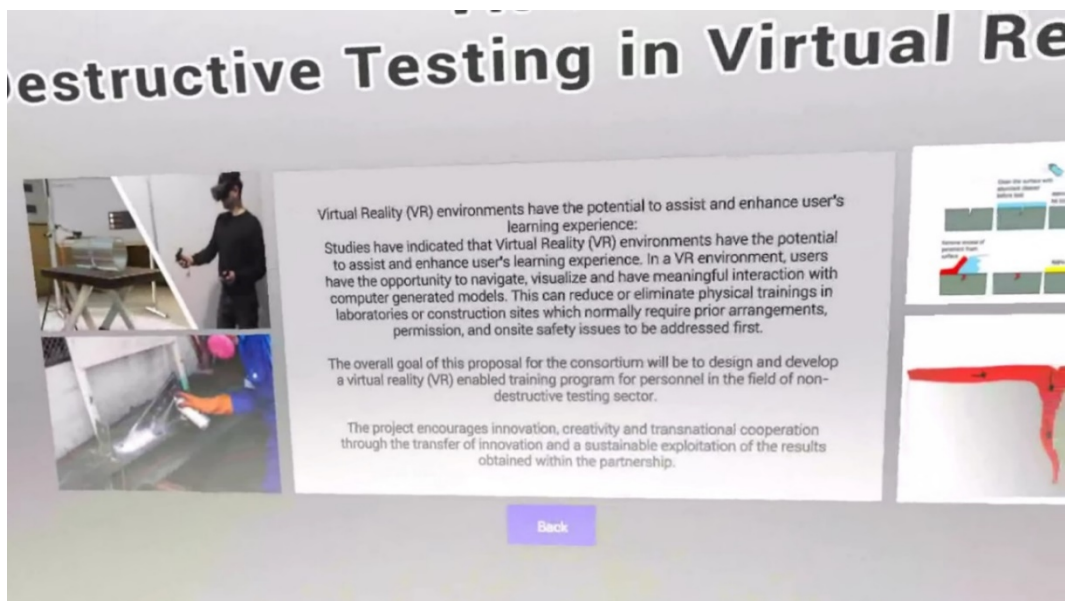
- Options Menu

The **Options** menu allows users to control sound settings and configure application settings for learner and trainer modes



- About Section

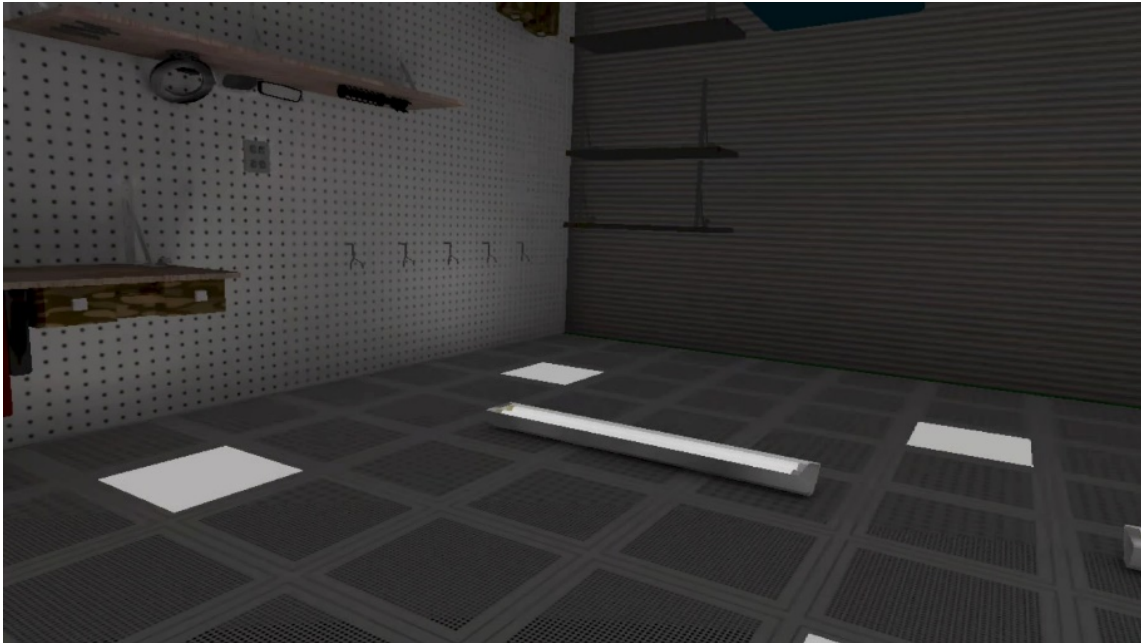
By selecting the **About** button from the main menu, users can view detailed information about the application.





- Starting the NDT Process in VR

To begin the complete BDT process in the virtual environment press the **Start** button from the main menu. Then the virtual laboratory room will appear.



Interaction Tools and Controls

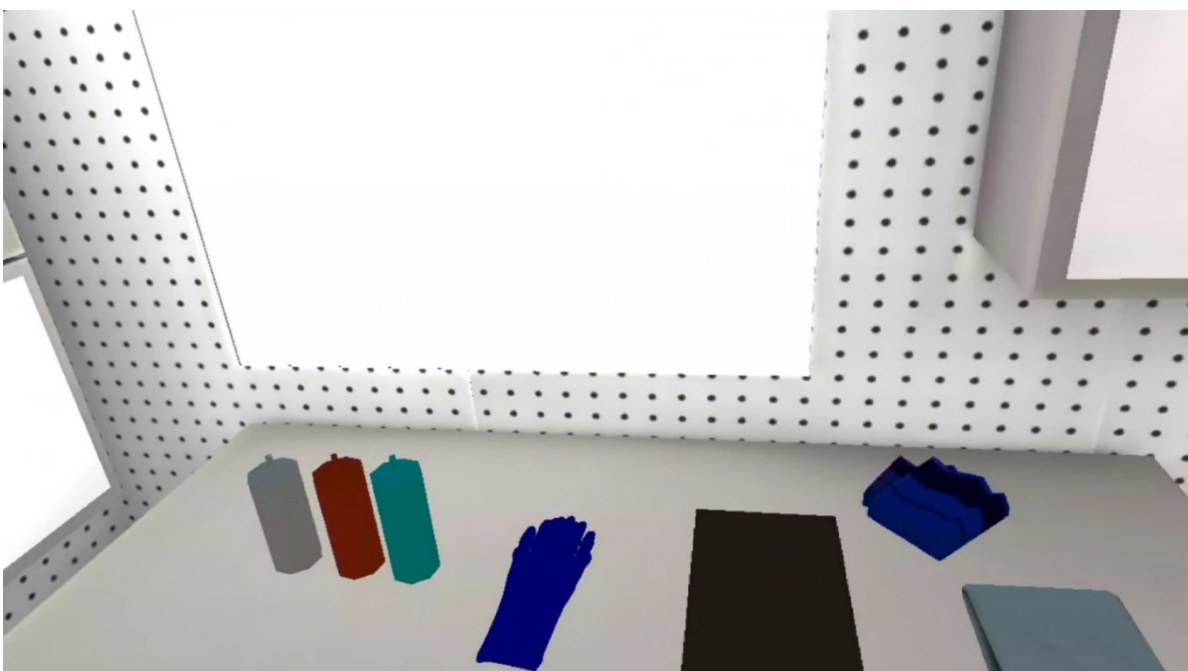
The VR VET system uses HTC VIVE controllers for interaction within the environment.

- Teleportation

Users can change their position in the virtual space by using the tracking button to teleport.

- Wearing Gloves

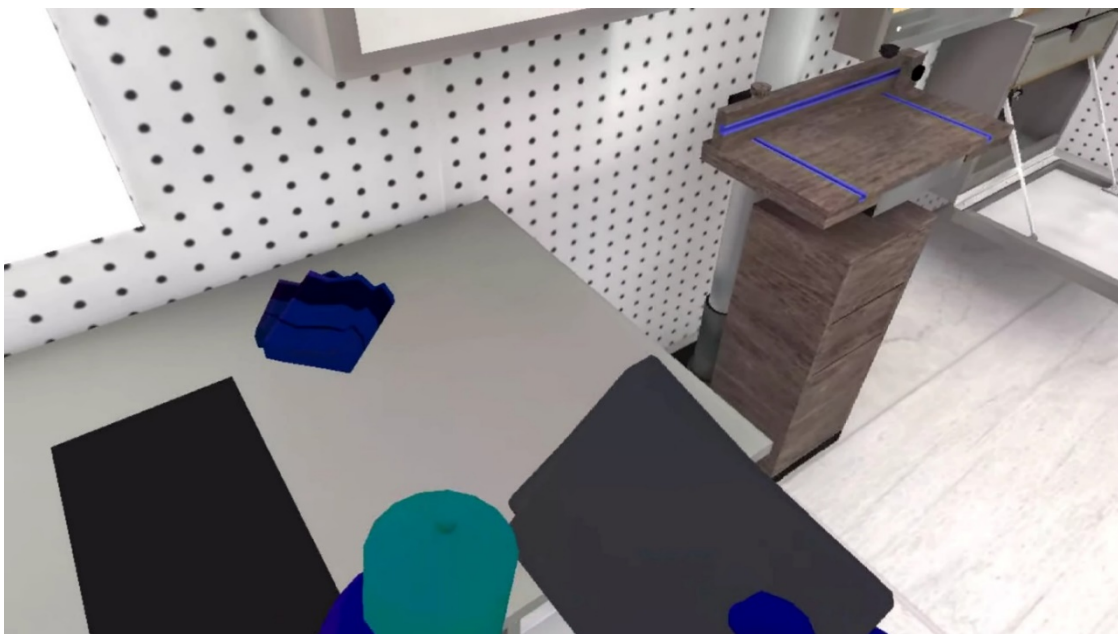
To start the NDT process, the user must wear gloves by pressing the grip button on the left-hand controller.

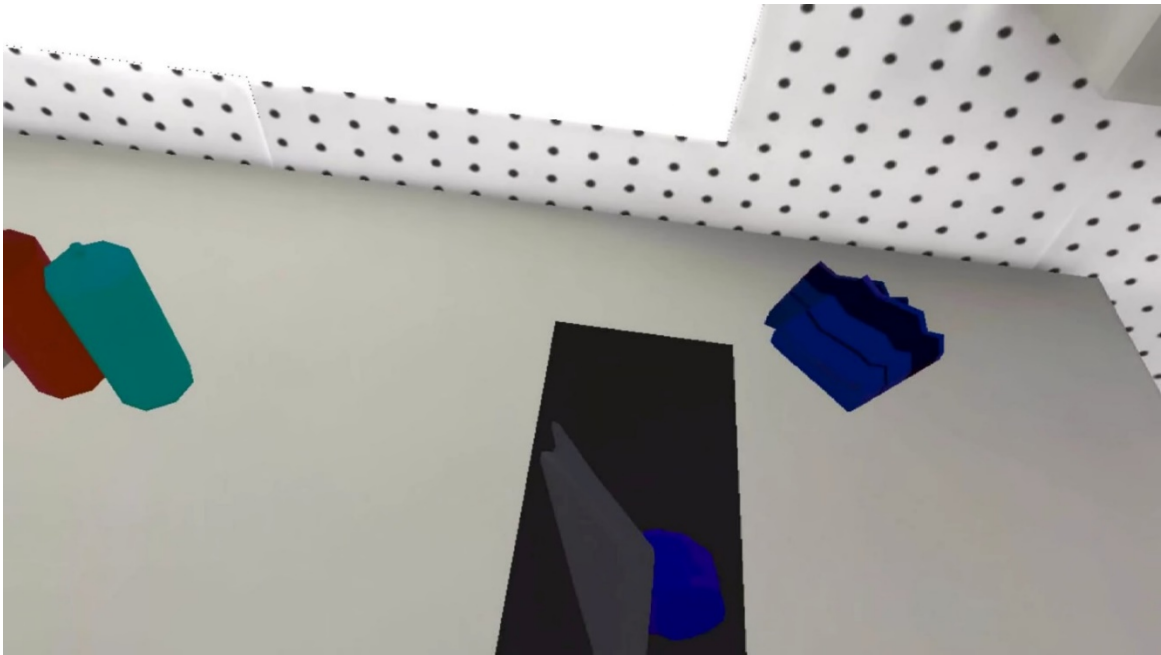




- Handling Equipment and Materials

All types of clothing can be picked up using the grip button on the right-hand controller. Bottles can be grabbed by touching them and pressing the grip button on the left-hand controller. To spray from a bottle, press the trigger button on the left-hand controller. The spray will be applied to the selected area. Bottle shaking is performed naturally by moving the left hand, similar to real-world interaction.

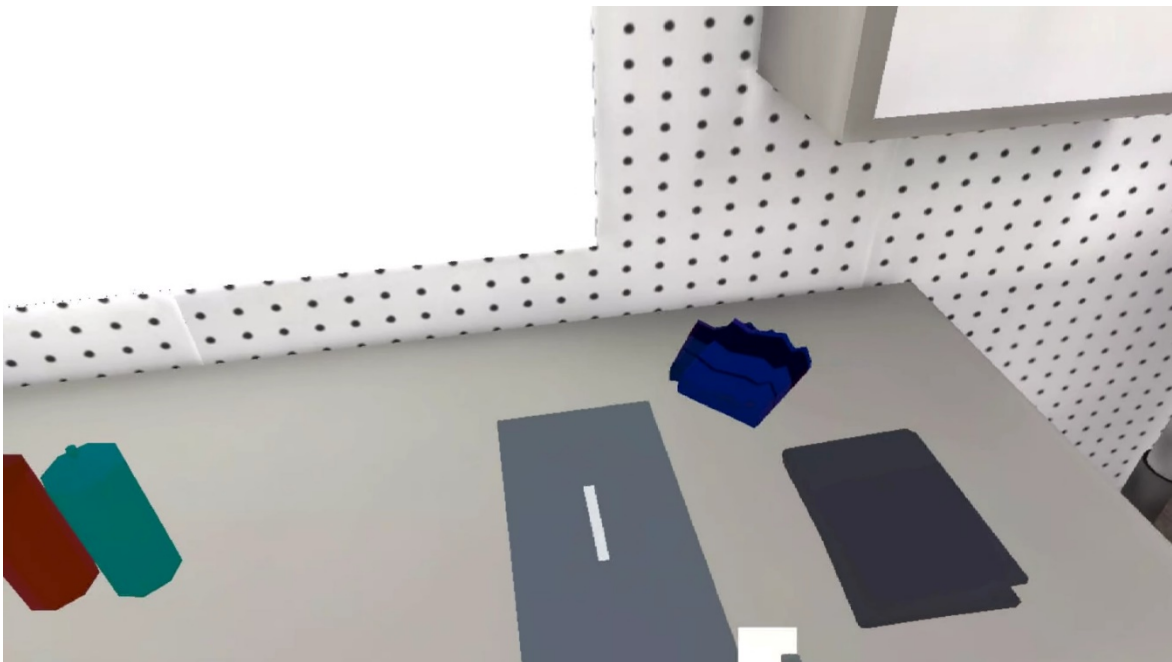


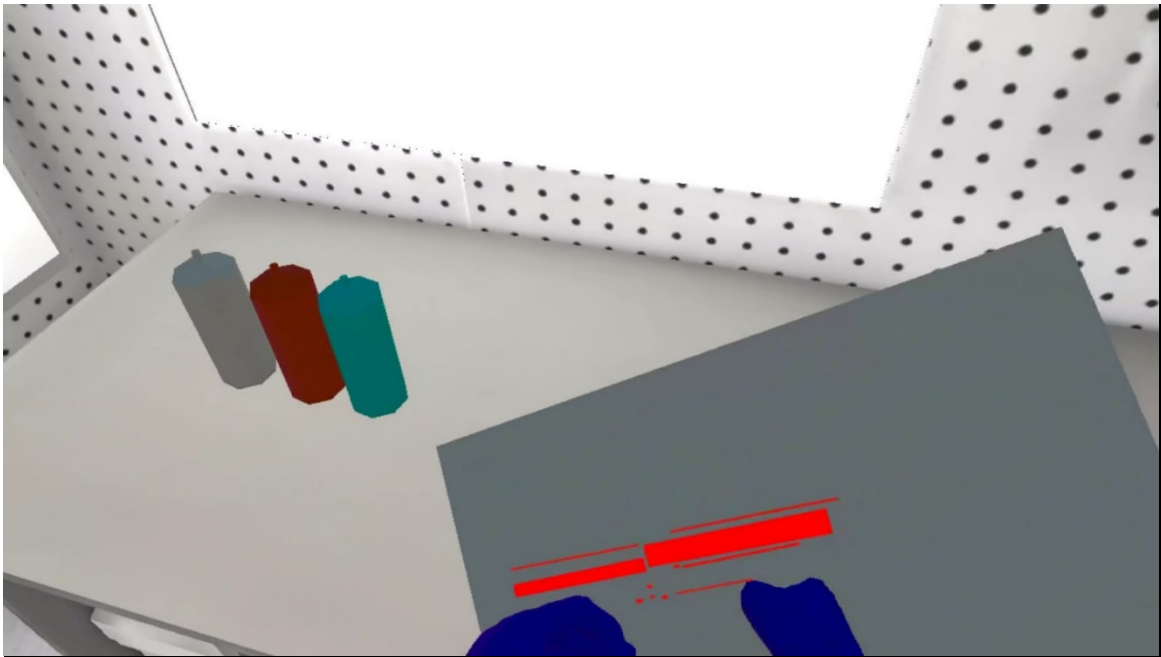
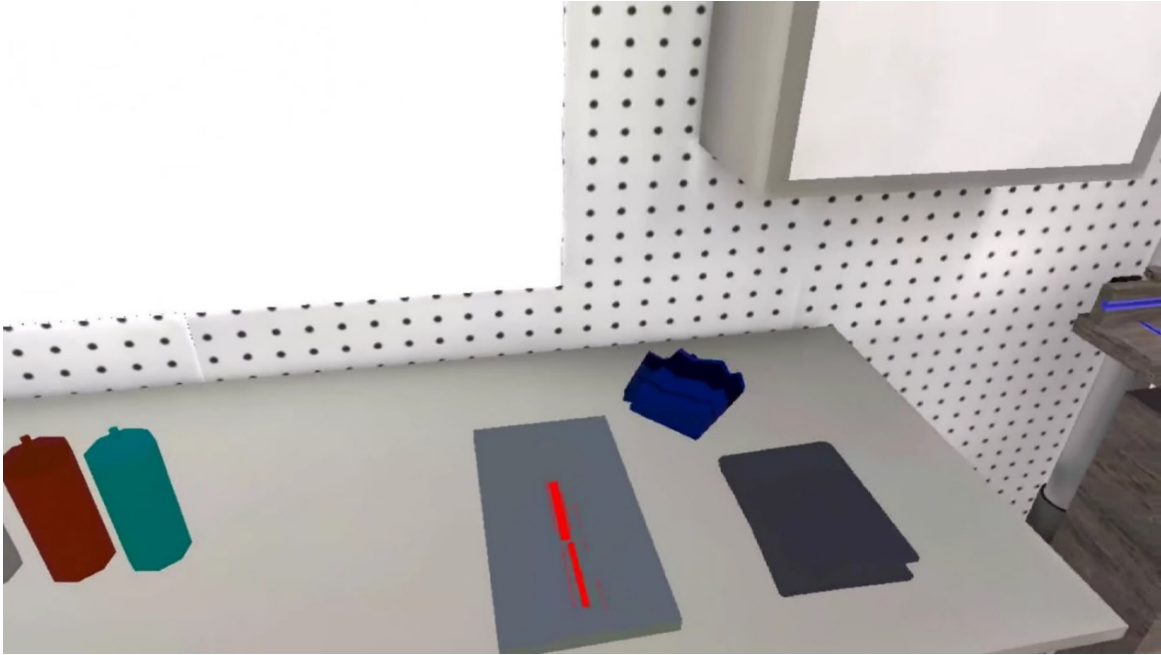


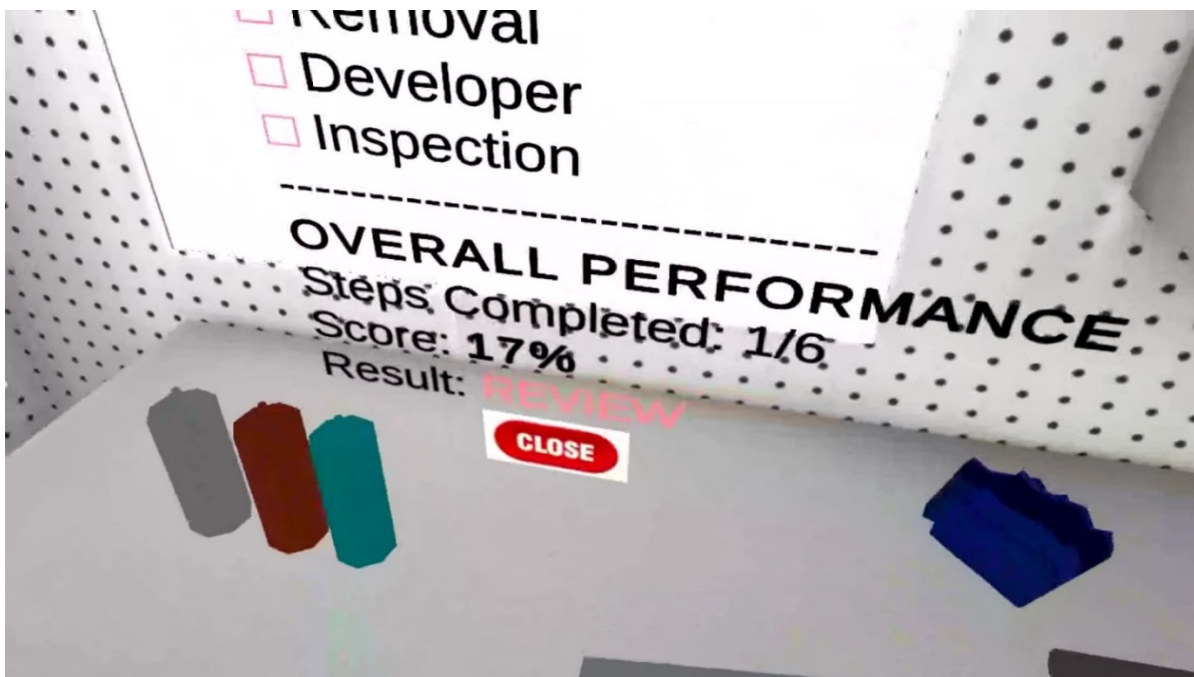
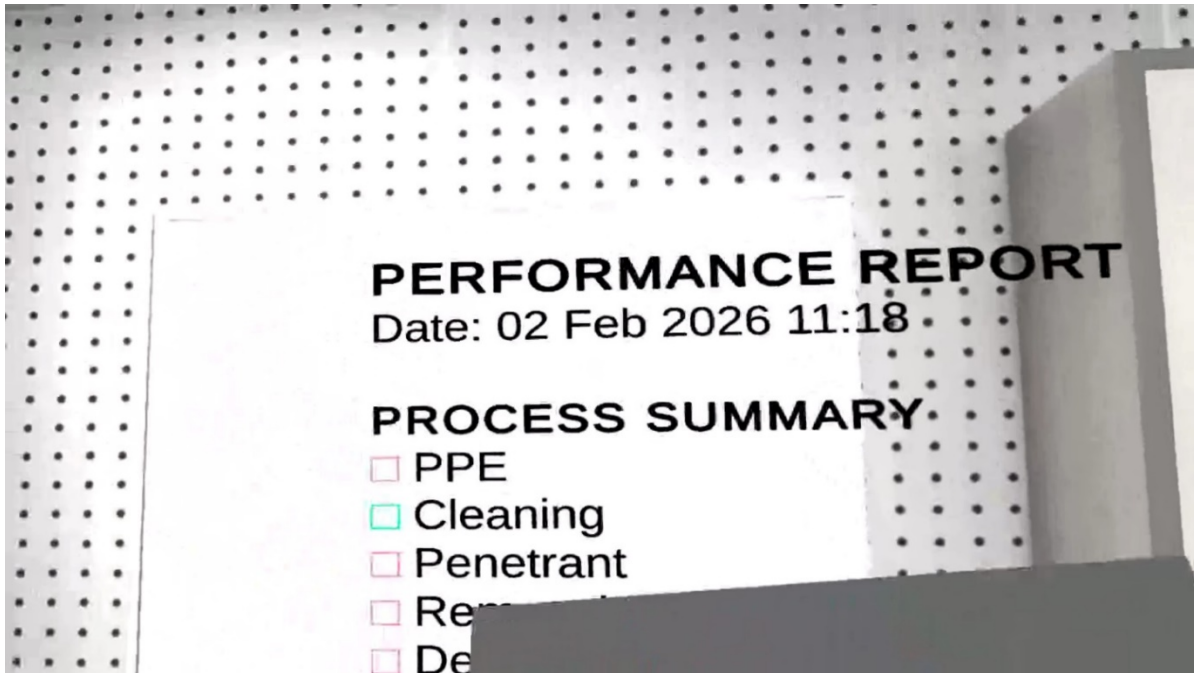


Result Visualization

After spraying the developer onto the welded part placed on the table defective welded areas become visible through a change in color. The user can select the problematic welded area using the trigger button. Once selected, the NDT report for the chosen welded part is displayed. The report can be closed by pressing the trigger button on the controller.







The VR VET application provides an interactive virtual environment for conducting the NDT processes. Through structured menus and intuitive controller-based interactions, users can navigate the system, perform testing procedures, and generate reports efficiently within a simulated laboratory setting.