

INSTALLATION & USER MANUAL

Project Enlightenment

*Computer Training For Visually Impaired Automation Tool
(CTVIAT)*

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Document Change Control

The following is the document control for revisions to this document.

Version Number	Date of Issue	Author(s)	Brief Description of Change
1.0	01/05/10	Project Enlightenment	Document created

Definition

The following are definitions of terms, abbreviations and acronyms used in this document.

Term	Definition
CTVIAT	Computer Training for Visually Impaired Automation Tool
IUM	Installation & User Manual
WPF	Windows Presentation Foundation
SAPI	Windows Speech API

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1. INTRODUCTION

This document is for giving information about how to install and use the CTVIAT. The installation is consists of following steps:

- ✓ Preparing the required system environment
- ✓ Creating the database on the server
- ✓ Installing the CTVIAT

Moreover, the user manual part is divided into two main parts:

- ✓ Admin Operations
- ✓ Candidate Operations

2. INSTALLATION

2.1 Preparing the Required System Environment

Hardware Requirements:

- ✓ At least 256 MB display card with hardware acceleration
- ✓ 2 core CPU (recommended)
- ✓ 2 GB Ram Memory (recommended)
- ✓ Database server

Software Requirements:

- ✓ Windows Vista or Windows 7
- ✓ .NET 4.0 Client Profile
- ✓ WPF which comes in .NET 4.0 Client Profile
- ✓ Windows Speech API
- ✓ Microsoft SQL Server

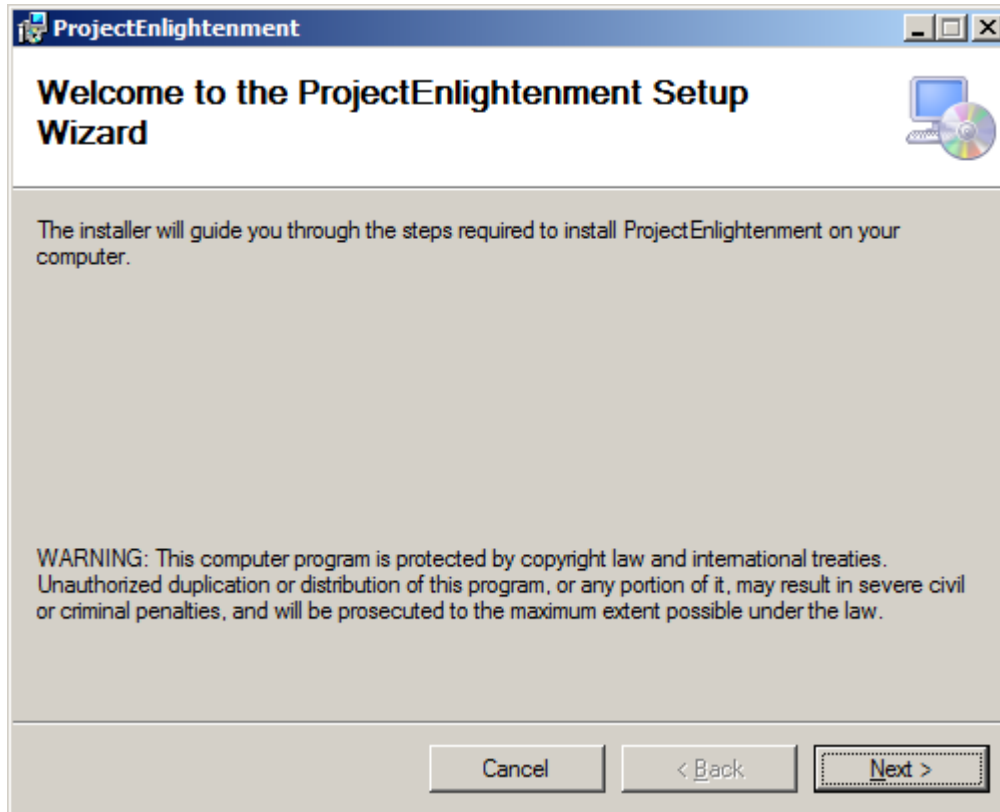
2.2 Creating the Database on the Server

The CTVIAT database must be created with provided script. Then, one login account must be matched with the created database. This login account will be used for client machines to connect the database server.

2.3 Installing the CTVIAT

Installation steps:

- ✓ Double click the “ProjectEnlightenmentInstaller.msi” to start installation
- ✓ Click Next Button in the following screen

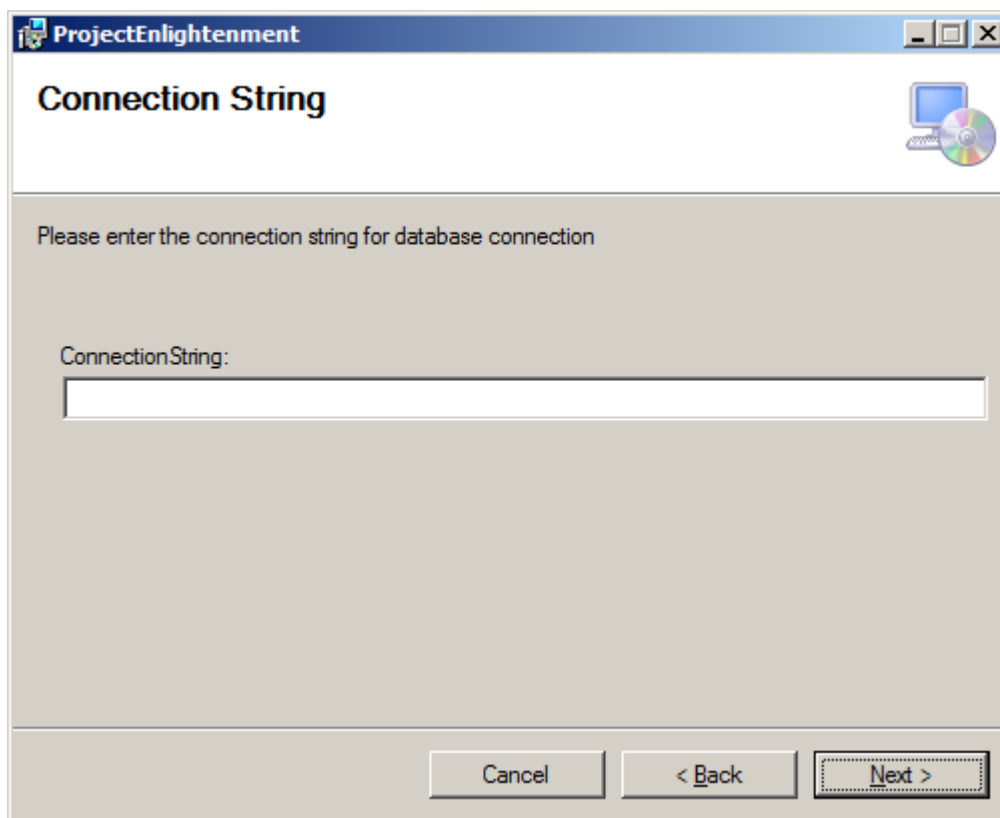


- ✓ Enter connection string that describes the database server like the following formats:

Data Source=*YourDatabaseServer*;Initial Catalog=*YourDatabaseName*;Integrated Security=False;User ID=*YourLoginAccount*;Password=*YourPassword*

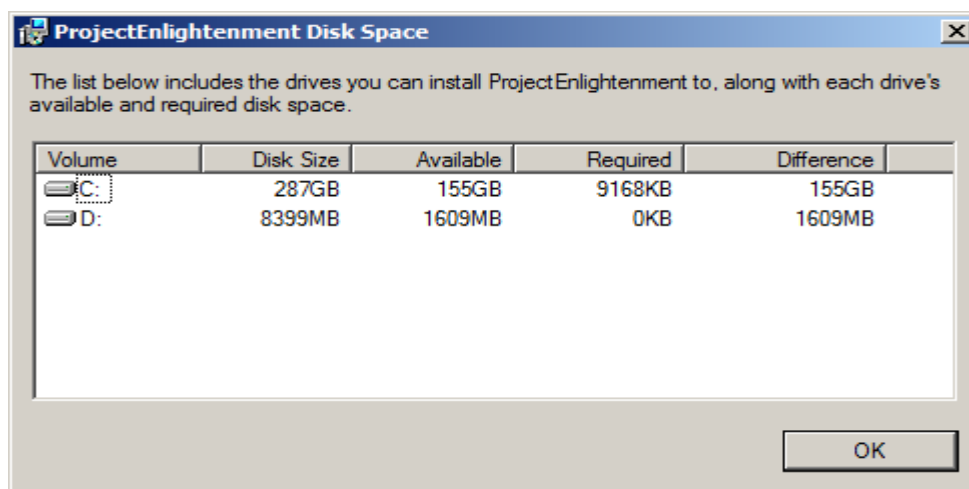
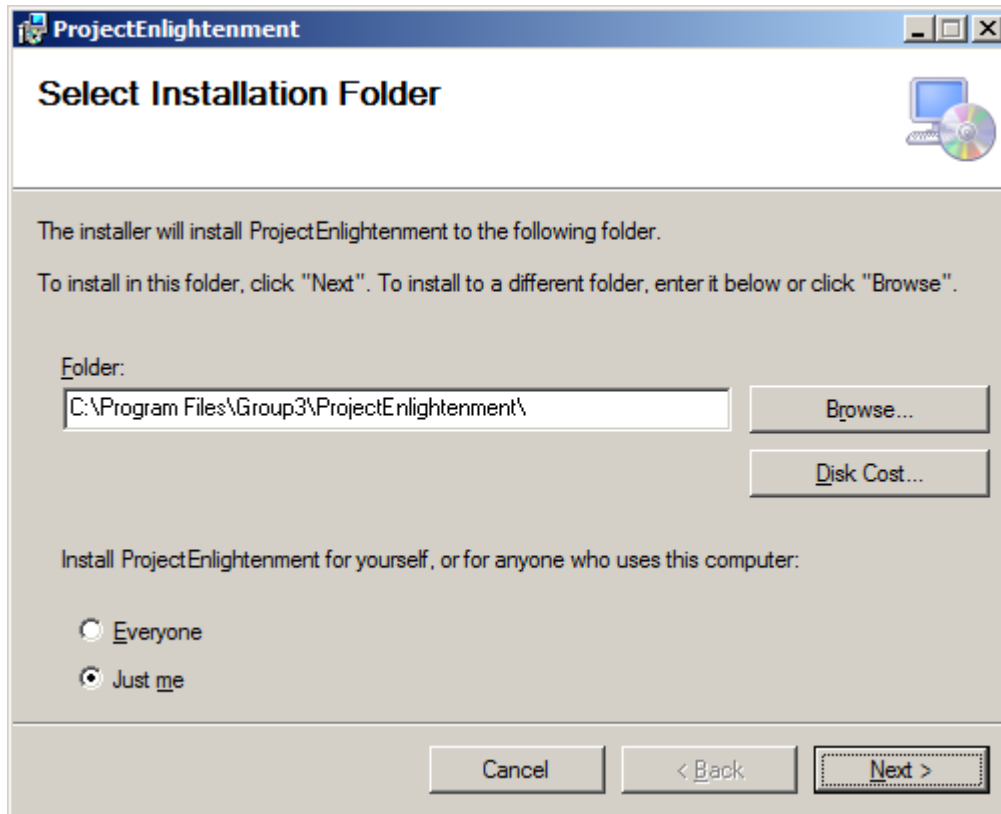
Data Source= *YourDatabaseServer*;Initial Catalog= *YourDatabaseName*;Integrated Security=True

- ✓ After entering the connection string click the “Next” button

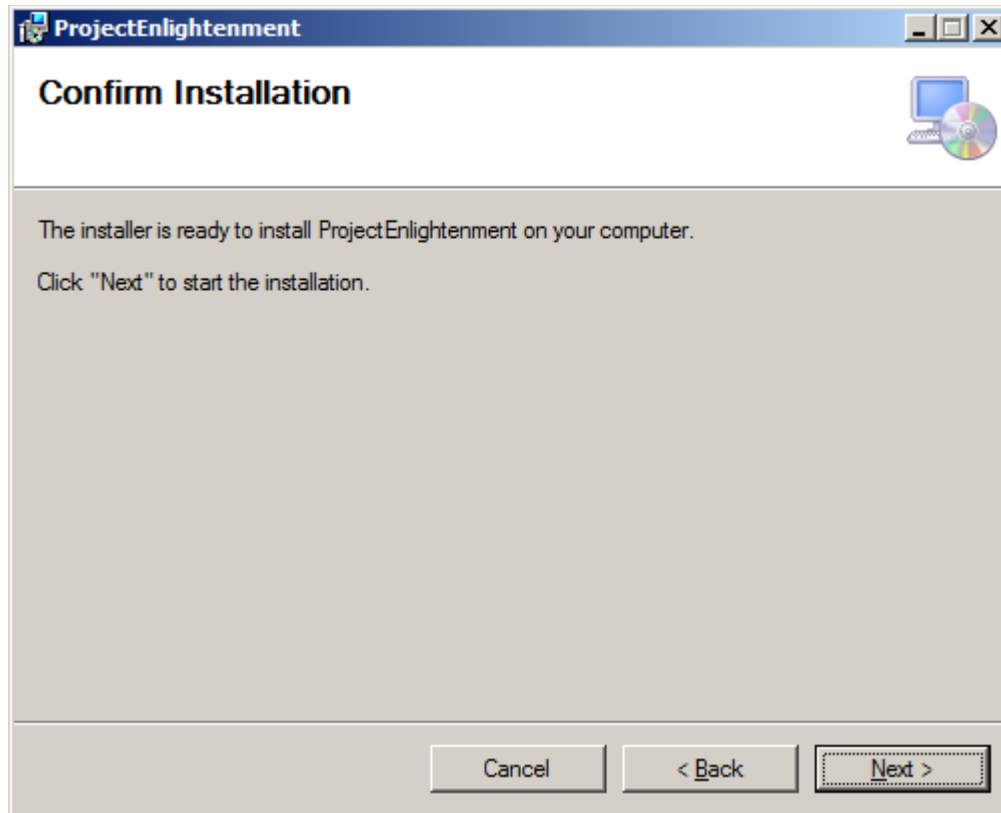


The screenshot shows a Windows-style dialog box titled "ProjectEnlightenment" with a subtitle "Connection String". The dialog has a light gray background and a blue title bar. In the top right corner, there is a small icon of a computer monitor and a CD. The main area of the dialog contains the text "Please enter the connection string for database connection" and a label "ConnectionString:" followed by a large, empty text input field. At the bottom of the dialog, there are three buttons: "Cancel", "< Back", and "Next >". The "Next >" button is highlighted with a dashed border, indicating it is the recommended action.

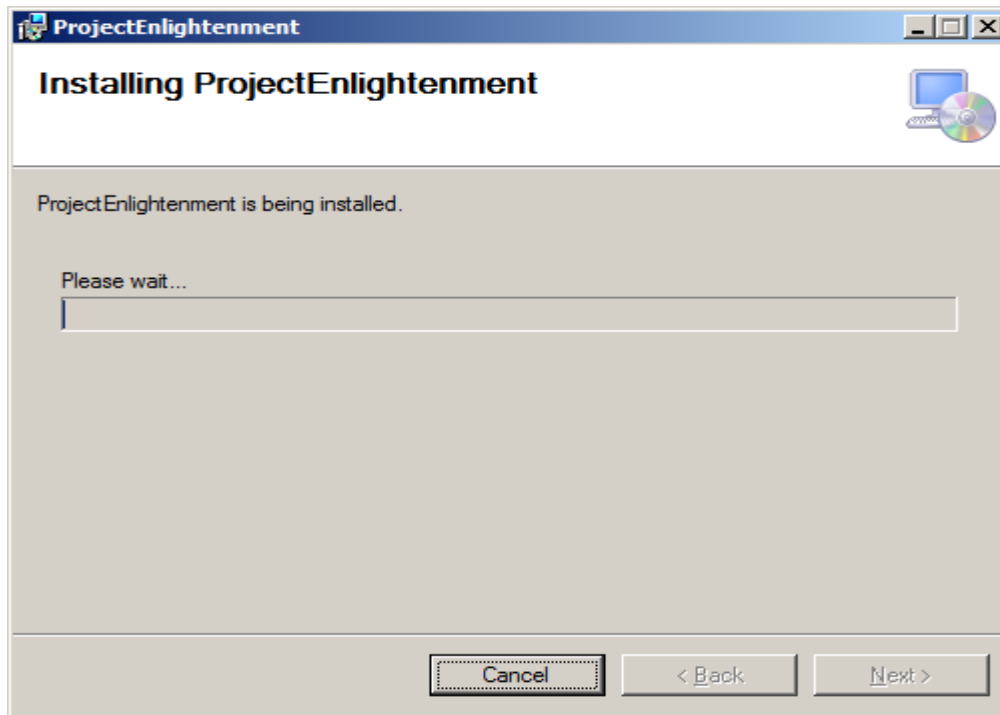
- ✓ Choose the application target installation directory and installation mode
- ✓ [Optional] You can learn disk space requirements by clicking the “Disk Cost” button
- ✓ After choosing the target folder, click the “Next ” button



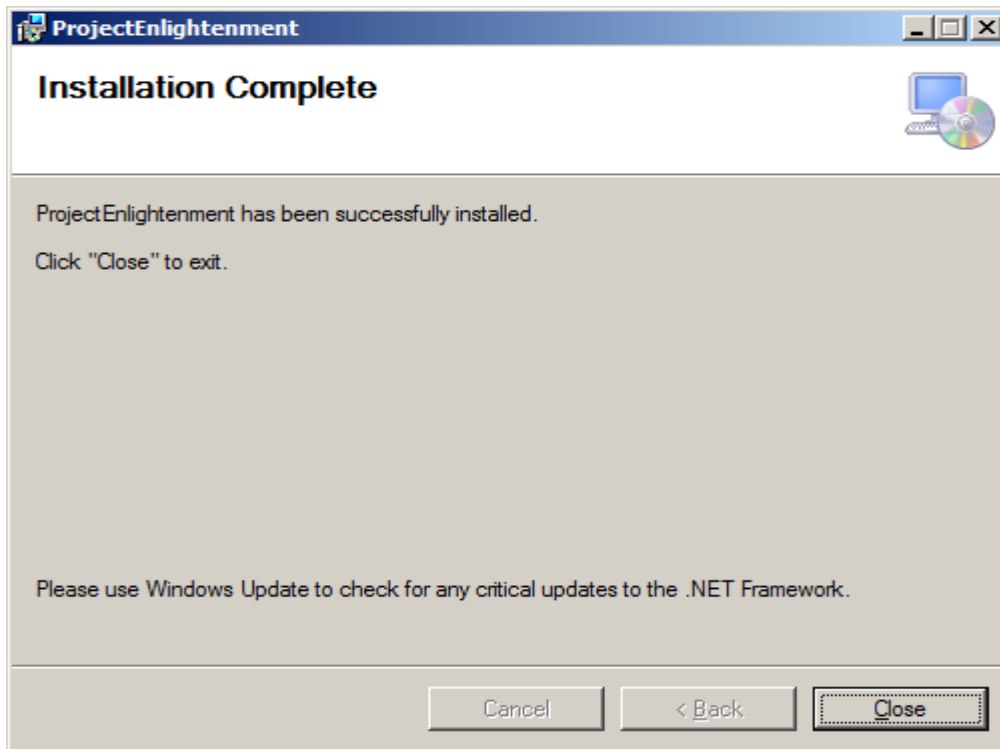
- ✓ Click the “Next” button to start the installation



- ✓ Installation is in progress



- ✓ Installation is completed, click the "Close" button to exit



3. ADMIN OPERATIONS

In this section, the operations that can be performed by the administrative user will be described.

3.1 Login

- ✓ Enter username and password
- ✓ Click “Enter” button or press “Enter” key

A screenshot of a web application login window titled "CTVIAT Login". The window has a blue header bar with the title and a close button. The main content area features a large, glowing yellow lightbulb in the center, surrounded by a circle of stylized human figures holding hands, symbolizing teamwork or innovation. Below this graphic, there are two input fields: "Username" and "Password". The "Username" field is currently empty, and the "Password" field is also empty. At the bottom left, the "CTVIAT" logo is displayed. At the bottom right, there is a button labeled "Enter".

CTVIAT Login

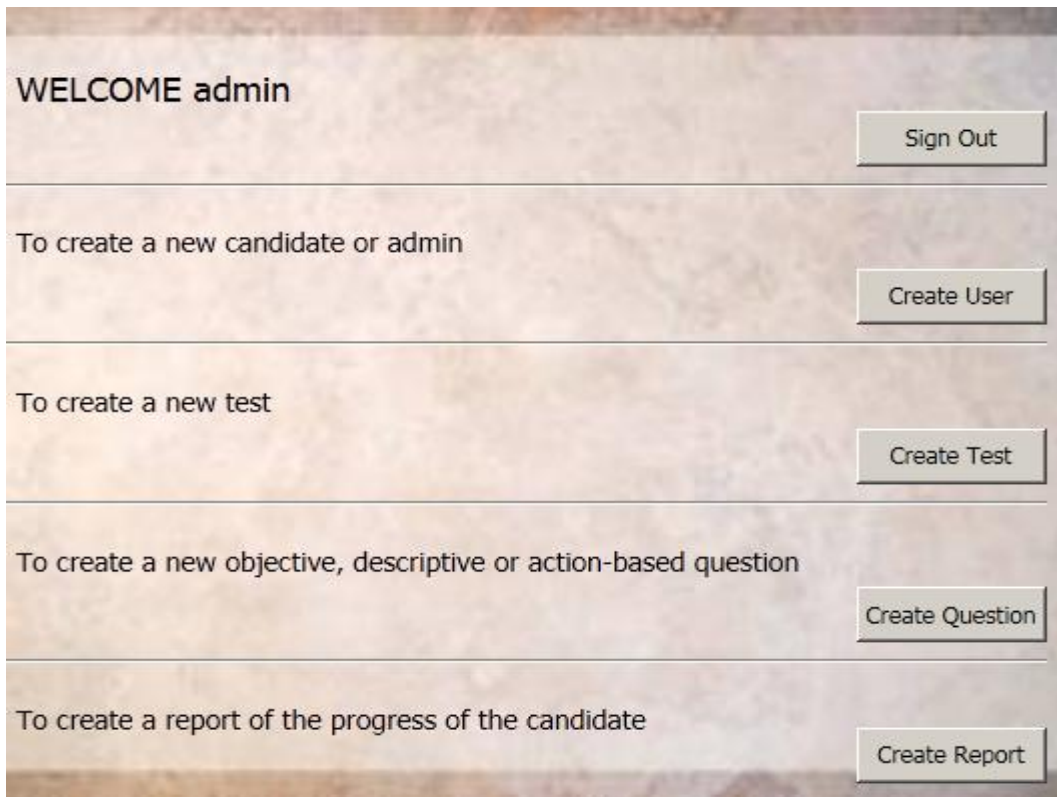
Username

Password

CTVIAT

Enter

- ✓ After the successful login, you will see the following screen

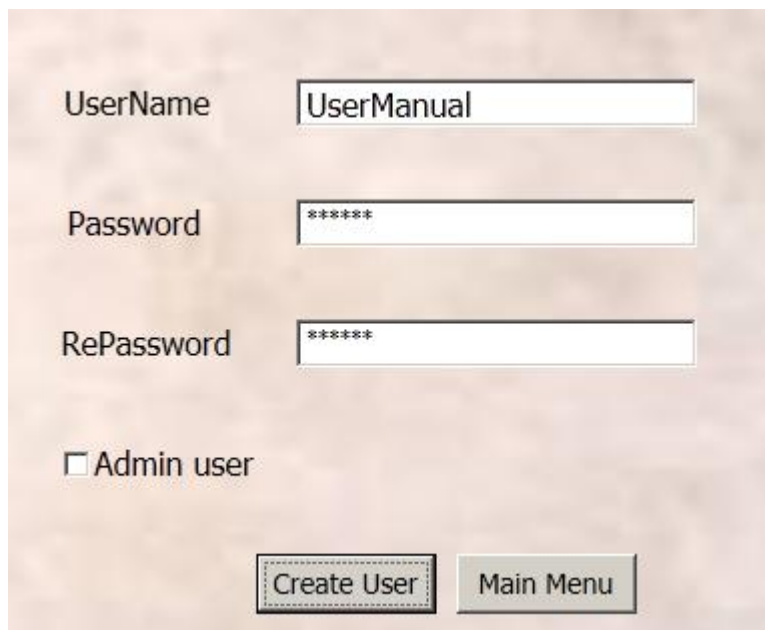


The screenshot shows a web application interface for an administrator. At the top, it says "WELCOME admin" with a "Sign Out" button. Below this, there are five rows, each with a description of an action and a corresponding button:

- To create a new candidate or admin: Create User
- To create a new test: Create Test
- To create a new objective, descriptive or action-based question: Create Question
- To create a report of the progress of the candidate: Create Report

3.2 Create a User

- ✓ Provide a username which has not given before
- ✓ Provide a password and retype it
- ✓ Choose a user type – default is candidate
- ✓ Press "Create User" button



The screenshot shows a form for creating a new user. It contains the following fields and controls:

- UserName**: A text input field containing "UserManual".
- Password**: A password input field containing "*****".
- RePassword**: A password input field containing "*****".
- ☐ **Admin user**: A checkbox to select the user type.
- Create User**: A button to submit the form.
- Main Menu**: A button to navigate to the main menu.

3.3 Create a Question

- ✓ Choose the question type
- ✓ Choose the question subject
- ✓ Provide the question information
- ✓ Press the “Create Question” button

The interface is titled "Question Type and Subject" and contains two dropdown menus: "Select Question Type" and "Select Question Subject".

Objective Question

Question

Options

Correct Answer

Select Correct Choice

Descriptive Question

Question

Answer

Action-based Question

Select Question Function

Directory or File Name:

Directory or File Name:

File Text:

File Text:

Create Question Main Menu

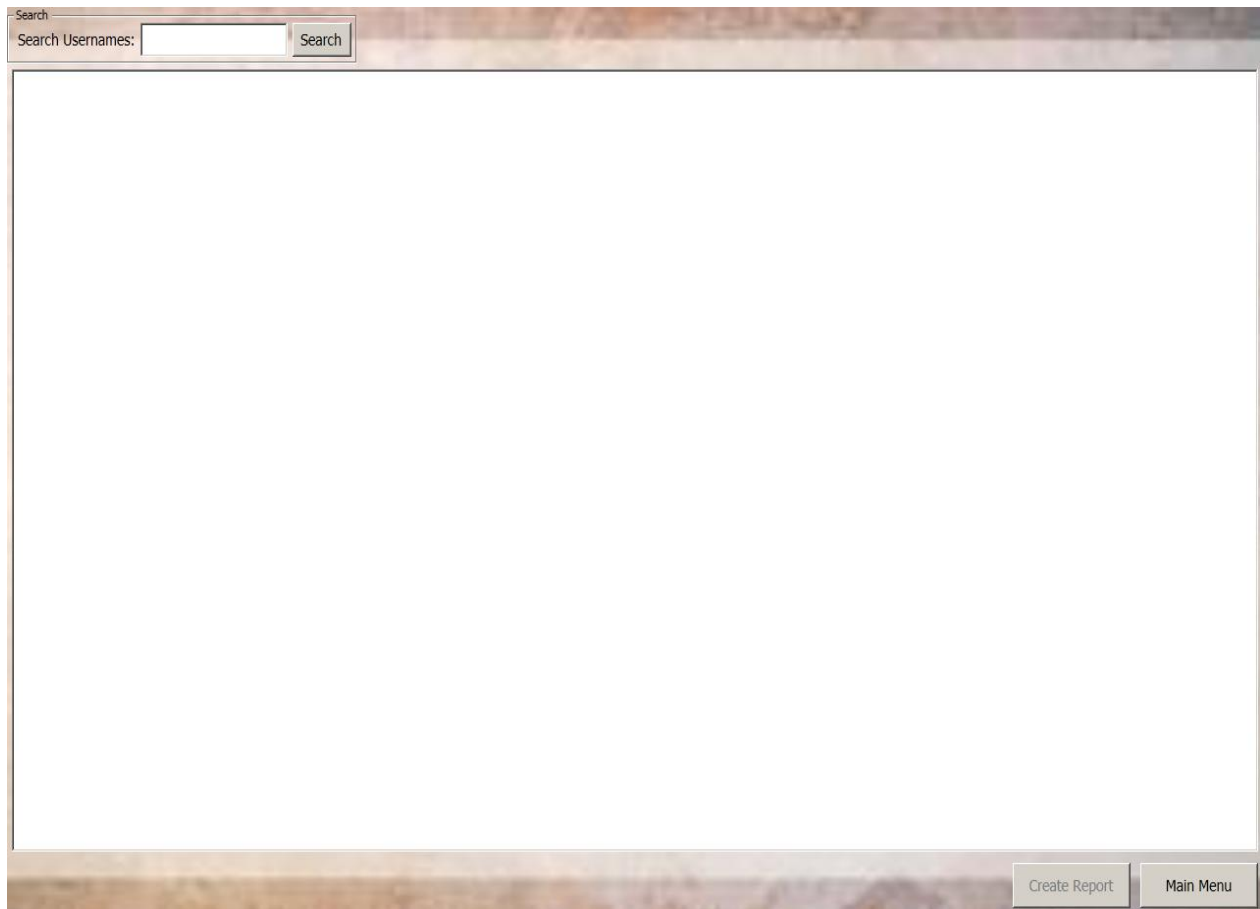
3.4 Create a Test

- ✓ Choose the questions type
- ✓ Choose the questions subject
- ✓ Choose the test subject
- ✓ Select the questions you want to add to the test
- ✓ To add selected question(s) to the test, click “→” button
- ✓ To remove select question(s) from the test, click “←” button
- ✓ To create the test , click the “Create Test” button

The screenshot shows a software window titled "Test Properties". At the top, there are three dropdown menus: "Select Question Type", "Select Question Subject", and "Select Test Subject". Below these is a section labeled "Questions of Test" which contains two large, empty rectangular boxes for listing questions. Between these two boxes is a vertical column containing two buttons: a right-pointing arrow ("→") and a left-pointing arrow ("←"). At the bottom right of the window, there are two buttons: "Create Test" and "Main Menu".

3.5 Create a Report

- ✓ Search candidate usernames by providing the some part of the name
- ✓ Choose the candidate to report its progress
- ✓ Click the “Create Report” button
- ✓ In the pop-up window, choose a directory to save the created report



The screenshot shows a web application interface. At the top left, there is a search bar with the label "Search" and a sub-label "Search Usernames:". Next to the sub-label is a text input field and a "Search" button. The main area of the interface is a large, empty white rectangle. At the bottom right, there are two buttons: "Create Report" and "Main Menu".

4. CANDIDATE OPERATIONS

4.1 Login

- ✓ Enter username and password
- ✓ Click “Enter” button or press “Enter” key



4.2 Solve Test(s)

- ✓ Choose test subject (dialog or editing)
- ✓ Choose test freshness (old or new)
- ✓ Choose a test from the tests that are filtered according to selected properties
- ✓ Solve the test
- ✓ Listen the answers after finish
- ✓ Practice again or Sign out

4.3 Keyboard Shortcuts

- ✓ At the beginning, candidate can listen the user manual by pressing Ctrl + M or can skip and interrupt the manual by pressing Ctrl + N.
- ✓ In the Test Subject Selection Screen
 - Press 1 for choosing dialog
 - Press 2 for choosing editing

- Press Ctrl + N to continue next window
- Press Ctrl + H for listening audio help
- Press Ctrl + S to sign out
- ✓ In the Test Freshness Selection Screen
 - Press 1 for choosing new test
 - Press 2 for choosing old test
 - Press Ctrl + N to continue next window
 - Press Ctrl + H for listening audio help
 - Press Ctrl + S to sign out
 - Press Ctrl + B to return the previous window
- ✓ In Test Selection Screen
 - Press up or down to navigate in the test list
 - Press Ctrl + H for listening the audio help
 - Press Ctrl + N to start the selected test
 - Press Ctrl + B to return the previous window
 - Press Ctrl + S to sign out
- ✓ In Test Solving Screen
 - Press Ctrl + N to move next question
 - Press Ctrl + B to return the previous question
 - Press Ctrl + F to finish solving
 - Press Ctrl + D to discontinue solving
 - Press Ctrl + T to listen the elapsed time
 - Press Ctrl + R to listen the question
 - Press Ctrl + H to listen the audio help
 - For objective questions
 - Press 1 for option 1
 - Press 2 for option 2
 - Press 3 for option 3
 - Press 4 for option 4
 - Press 5 to unselect the options
- ✓ In Test Answer Listening Screen
 - Press Ctrl + N to move next question
 - Press Ctrl + B to return the previous question
 - Press Ctrl + F to finish listening the answers
 - Press Ctrl + R to listen the answer
 - Press Ctrl + H to listen the audio help
- ✓ In the last Screen
 - Press Ctrl + P to practice again
 - Press Ctrl + S to sign out
 - Press Ctrl + H to listen the audio help