

# USER MANUAL

**Z-HUB INNOVATIONS**

## INTRODUCTION

Z-HUB is an innovation hub that helps innovators bring their innovation to a stage where they can be commercialized. The purpose of this information system is to aid in keeping innovators' records. This is only done by allowed users of the system that can manage innovators' records and ready them for commercialization. The targeted audience are enthusiastic innovative innovators.

**Prerequisite** for a user to use this software product are;

A Windows-based machine with a Text editor or Integrated Development Environment (IDE) capable of running C++ files and compiling code.

- A fully functional hardware keyboard.
- One of the following user roles:
  1. HUB MANAGER
  2. HUB COORDINATOR
  3. HUB TECHNICIAN

Here are the required passwords for each user role:

1. HUB MANAGER: HUBM
2. HUB COORDINATOR: HUBC
3. HUB TECHNICIAN: HUBT1
4. HUB TECHNICIAN: HUBT2

Please note that HUB MANAGER and HUB COORDINATOR have more extensive permissions compared to HUB TECHNICIANS, who can only search or view innovator records, and exit the system.

## GETTING STARTED

To get started, ensure you have met the prerequisites mentioned in the introduction. Then follow these installation instructions:

1. Download and extract the zipped folder to your preferred destination on your computer.
2. Open your favorite Integrated Development Environment (IDE) or a text editor with C++ compilation capabilities.
3. Locate and open the C++ file named `main.cpp` within the extracted folder.
4. Build and compile the `main.cpp` file. Once you've completed these steps, proceed to the next section.

## MAIN FEATURES

Having done all that, here we'll get to know how to use the Z-HUB with the help of user-interfaces, and having what they communicate explained.

### User Response:

Throughout the ZHub, the system will present you with a list of current state options, from that only one option is selected. Then the system will request that you input the corresponding number linked to your decision.

### User interfaces explained:

#### Your active role:

```
LOGIN AS HUB:
1 - MANAGER
2 - COORDINATOR
3 - TECHINITIAN
  OR
4 - SIGN UP
ENTER YOUR CHOICE: |
```

Here you provide the system with the number corresponding to your role.

#### Provide your role password:

For access to be granted, the user role password will be demanded. Enter your user role password to gain access. Note that three consecutive incorrect password attempts will return you to choose your active role then to this.

```
Z - H U B   I N N O V A T I O N S

Y O U   H A V E (3) A T T E M P T (S)

ENTER PASSWORD FOR THE HUB (MANAGER) :
```

#### The menu:

The system offers different menus for Hub Manager and Hub Coordinator, as well as Hub Technicians. The permissions vary, with Hub Technicians having limited options (search or view, and exit).

```
M A I N   M E N U

1 - ADD INNOVATOR
2 - DELETE INNOVATOR RECORD
3 - SEARCH FOR INNOVATOR
4 - EDIT INNOVATOR RECORD
5 - DISPLAY INNOVATOR BY INNOVATION CATEGORY
6 - EXIT
ENTER YOUR CHOICE: |
```

**Entitlement:**

This is to determine if the innovator is in the system, or the innovation is their own. When adding, Deleting, Searching, or Editing. The user is required to request the NRC or PASSPORT and the corresponding TITLE of Innovation. From the innovator. This will prove entitlement.

**Adding Innovator:**

During this process, the entitlement must not have an already existing innovation under the details requested from the innovator. Then the user will proceed requesting for other details of the innovation from the innovator, and add that innovation.

Otherwise, the system will notify the user that the TITLE is already corresponding with the NRC or PASSPORT provided.

```
Z - HUB INNOVATIONS

THE (NRC_NO: 1) IS ALREADY HAVING AN INNOVATION BY THE TITLE: 1

1 - ADD AGAIN
2 - MAIN MENU
ENTER YOUR CHOICE: _
```

**Deleting Innovator Records:**

During this process, the entitlement must already have an existing innovation with the details provided by the innovator. Then the user will be eligible to delete. Otherwise, the system will notify the user that, no such innovator was found.

**Searching Innovator:**

During this process, the entitlement must already have the innovation in order proceed with the permission of displaying the searched innovator from the system. Otherwise, the system will notify the user that no such innovator was found.

**Editing Innovator Records:**

During this process, the entitlement must already have an Account existing innovator in order to proceed with the permission of editing an innovator from the system, which it will display the searched innovator then from there as the user you will edit the needful. Otherwise, the system will notify the user that no such innovator was found.

**Two-Step Action:**

When a user is about to Add, Delete, or Edit an innovator in the system, they will be asked to confirm their action. Following the initial confirmation, the system will prompt the user for their system login password as a final verification step. The user will have only two attempts to enter the correct login password. If the user fails to provide the

correct password within these two attempts, the intended action will be cancelled, and the user's permission to proceed will be revoked due to incorrect password input.

```
ARE YOU SURE YOU WANT TO TAKE THIS ACTION?  
1 - SURE YES  
2 - SURE NO  
ENTER YOUR CHOICE:
```

```
Z-HUB INNOVATIONS  
  
PASSWORD REQUIRED TO COMPLETE THIS PERMISSION  
YOU HAVE (2) ATTEMPT(S)  
PASSWORD FOR THE HUB MANAGER: ****
```

### **Displays innovators by their innovation category:**

You can select a category from the available categories, after which the system will display all innovators that are corresponding to the chosen category.

```
Z-HUB INNOVATIONS  
  
DISPLAY INNOVATORS BY CATEGORY  
1 - IT  
2 - MetalTech  
3 - FoodTech  
4 - MAIN MENU  
ENTER YOUR CHOICE: |
```

### **Exit:**

Use this option to exit or log out of the system.

And note that the system will reload the required records during the first stage of the system. And save records back to the storage file only upon exiting.

We hope this manual helps you get along with Z-HUB INNOVATION. If you encounter any issues or have suggestions for improvement, please feel free to reach out to our support team. GROUP NINE (9).