Cyber Miner

# User Manual

Version 1.0

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## 1. Introduction

This User Manual (UM) provides the information necessary for users to effectively use the Cyber Miner system.

### Overview

Cyber Miner is a web application designed to manage and organize indices for a search engine. This user manual will guide you through the usage of the system, enabling you to create, modify, and delete indices with ease.

**Key Features:**

* **Index Creation**: Effortlessly create new indices by specifying a URL.
* **Index Modification**: Modify existing indices by adjusting settings like the URL, the site’s title, description, and keywords to ensure valid indices.
* **Index Deletion**: Remove indices that are no longer needed, maintaining a tidy index repository and preventing unnecessary clutter.

**System Architecture:**

Cyber Miner follows a client-server architecture. The client-side is executed on the user's local machine, while the server-side handles index processing and storage. This architecture facilitates efficient communication between the user interface and the server, ensuring a seamless user experience.

**System Requirements:**

To run Cyber Miner, ensure that your system meets the following requirements:

1. **Operating System**:
   * Windows 10+, macOS 10.14+ (Mojave), or any modern Linux distribution.
2. **Java Development Kit (JDK)**:
   * JDK 11 or later version installed.
   * Set up the JAVA\_HOME environment variable to point to the JDK installation directory.
3. **Web Browser**:
   * Chrome, Firefox, Safari, or any modern web browser with JavaScript enabled.
   * Ensure the browser is updated to the latest version for optimal performance.
4. **System Memory**:
   * A minimum of 4GB RAM (8GB recommended) for smooth operation.
5. **Internet Connection**:
   * A stable internet connection is required.
6. **Gradle**
   * Gradle is required in order to run the system.
7. **Git**:
   * Git is required for cloning the system from GitHub.

## 2. Getting Started

### 2.1 Accessing the System

The project can be accessed at the following URL: <https://cs4376-team-a.github.io/Project/>

Here there are documents and diagrams that provide a breakdown of the system’s design.

### 2.3 Running the System

To run Cyber Miner follow the steps listed below.

### 2.3.1 Downloading the System

1. Navigate to <https://github.com/CS4376-Team-A/Project>.

2. Click the green ‘Code’ dropdown button and copy the .git URL by clicking the overlapping rectangles indicated by the red boxes below.

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3. Open a command prompt or terminal (or any other navigation technique).

4. Navigate to an appropriate directory to clone the project into (ex: cd Desktop/Projects)

5. Type the command:

git clone https://github.com/CS4376-Team-A/Project.git

### 2.3.2 Building and Running

1. Navigate to the folder where you downloaded the project in the previous step.

2. Navigate to the Project folder (ex: cd Project).

3. Run the following commands

gradle build

gradle run

## 3. Using the System

The following sub-sections provide detailed, step-by-step instructions on how to use the various functions or features of Cyber Miner. After following the steps above you should see a window titled Cyber Miner.

### 3.1 Creating an Index

1. Click the ‘Manage Indexes’ button in the top right corner of the window

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2. Fill in the fields at the top of the window labeled Title, URL, Description, and Keywords

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3. Click the ‘Add’ button

4. Click the ‘Refresh’ button to see your created index in the table of indices.

#### 

### 3.2 Updating an Index

1. Click the ‘Manage Indexes’ button in the top right corner of the window.

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2. Use the table to find the index you would like to update.

3. Click on the field you would like to update on that index.

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4. Fill in that field with the corresponding information.

5. Click ‘Enter’ on your keyboard to save your change for that field.

6. Repeat steps 3-5 for the remaining fields you would like to update.

### 3.3 Deleting an Index

1. Click the ‘Manage Indexes’ button in the top right corner of the window.

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2. Use the table to find the index you would like to delete.

3. Click the ‘Delete’ button in the row of the index you are deleting.

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## 4. Troubleshooting & Support

### Error Messages

There are no error messages yet, however they will be included in the full release of Cyber Miner.

### Special Considerations

If you are unable to run Cyber Miner, ensure that you have:

* *JDK 20+ installed on your machine*
* *(Windows) Gradle’s bin added to your PATH variable.*