Cyber Miner

# User Manual

Version 1.1

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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.

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### 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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### 3.4 “OR” Search

1. Ensure that the “OR” option is selected in the upper right hand corner

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2. Type in your search term in the input box

3. Click the ‘Search’ button on the right and see your results below

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### 3.5 “AND” Search

1. Click the dropdown next to the input box and then click the “AND” option

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2. Type in your search term in the input box

3. Click the ‘Search’ button on the right and see your results below

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### 3.6 “NOT” Search

1. Click the dropdown next to the input box and then click the “NOT” option

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2. Type in your search term in the input box

3. Click the ‘Search’ button on the right and see your results below. You should see every index that doesn’t match your search term.

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### 3.7 Visiting a URL

1. Follow steps 1-3 for a search with the Boolean filter you’d like to search. In this example I will search for any keyword containing ‘Google’ using the search term ‘Google’ and the “OR” operator.

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2. Click on the link that has the URL you would like to visit. I would like to go to google.com so I will click the first URL

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3. A browser will appear with a tab opened to the URL you clicked on.

### 3.8 Auto Fill

1. Click on the input box to start typing. To get an autofill for ‘Google’ I will begin by typing the letters ‘Go’.

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2. Click on the search term that you would like to search. In this case I will click ‘Google’.

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3. The search term you began to type should be automatically updated to the value you clicked on. In this case my term “Go” was updated to “Google”, so I can now hit the search button to complete my search.

## 4. Troubleshooting & Support

### Error Messages

There are no error messages yet, however in a future release of Cyber Miner we will include error messages for when no search results are found, or if you enter an invalid index.

### 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.*