

# URL Shortener

## Overview

This project is a simple URL shortening service built in Go, designed to help users convert long, unwieldy URLs into shorter, more manageable links. The primary features of this service include the ability to shorten URLs and redirect users from the shortened URL back to the original long URL. It is ideal for simplifying the sharing of links, especially in scenarios where space is limited or a clean, concise URL is preferred.

## Installation

To use the URL shortener, you need to have Go installed on your system. You can download and install Go from the official Go website.

Clone the repository to your local machine:

```
git@github.com:santanu360/Go-Url-Shortner.git
```

## Usage

### Running the Server

Navigate to the project directory and run the following command to start the server:

```
go run main.go
```

The server will start listening on port 8080 by default. You can change the port in the `main.go` file if needed.

### Shortening a URL

To shorten a URL, send a POST request to the `/shorten` endpoint with a JSON payload containing the original URL:

```
curl -X POST http://localhost:8080/shorten -H "Content-Type: application/json" -
```

The response will contain a JSON object with the shortened URL:

```
{  
  "short_url": "https://www.linkedin.com/in/santanu360/"  
}
```

## **Redirecting to the Original URL**

To redirect to the original URL, visit the shortened URL in your browser or send a GET request to the `/redirect/{id}` endpoint, where `{id}` is the shortened URL ID:

```
curl http://localhost:8080/redirect/abcdef
```

This will redirect you to the original URL associated with the shortened URL.