



Computer Systems Engineering

Cloud Computing

Project Confirmation

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The following project description it's a new proposal for development, leaving behind the idea of a file hosting service and instead going for a more interesting and practical application.

## **Project name**

*URL Shortener Platform*

## **Project description**

Web based platform in which users can enter a variable length URL and in return they will get a shortened version of said URL. Users don't need to be logged in order for them to use this service.

## **Cloud services to use**

*Compute service:* Amazon Elastic Compute Cloud [EC2] (For web server)

RESTful API: Amazon API Gateway (For URL serving)

*Alternate services:*

- AWS Lambda (For URL handling and shortening)
- Amazon Relational Database Service [RDS] (For possible user data storing) ...
- ... Or, Amazon DynamoDB (For URL temporal or extended storing)

## **Implementation**

The final product would deliver a simple, yet useful tool for URL shortening with an underlying cloud architecture that would operate under this workflow:

- User access to web application
- Lambda usage to handle URL conversion, keeping track of current state of shortened inputs
- Call to database to store the result
- API automatic handling for future access to resultant shortened URL