

# LINUX MINI PROJECT (DYNAMIC WEB SERVER)

A MINI PROJECT REPORT

Submitted by

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## Mini Project Report

**Aim:** To create Dynamic Web Server

**Procedure:** Creating a dynamic web server on a Red Hat-based System

1. Install Red Hat Enterprise Linux:

Install RHEL on your server. You'll need a valid RHEL subscription to access updates and packages.

2. Update System Packages:

Ensure that your system packages are up to date:

**sudo yum update**

3. Install Apache HTTP Server:

Install the Apache web server:

**sudo yum install httpd**

4. Start and Enable Apache:

Start the Apache service and enable it to start on boot:

**sudo systemctl start httpd**

**sudo systemctl enable httpd**

5. Install PHP:

Install PHP and the PHP module for Apache:

**sudo yum install php php-mysql**

6. Create a Web Root Directory:

Create a directory to host your web application files:

**sudo mkdir -p /var/www/html/your\_project\_directory**

#### 7. Set Permissions:

Adjust permissions to allow the web server to access your project files:

**sudo chown -R apache:apache /var/www/html/your\_project\_directory**

#### 8. Configure Apache:

Create a configuration file for your web application, e.g., `/etc/httpd/conf.d/your_project.conf`, and configure Apache to point to your project directory. Edit the configuration file using a text editor:

**sudo vi /etc/httpd/conf.d/your\_project.conf**

Add the following configuration:

**<VirtualHost \*:80>**

**ServerName your\_domain.com**

**DocumentRoot /var/www/html/your\_project\_directory**

**</VirtualHost>**

Save the file and exit the text editor.

#### 9. Enable Firewall Rules:

Allow incoming web traffic through the firewall:

**sudo firewall-cmd --permanent --add-service=http**

**sudo firewall-cmd --reload**

#### 10. Restart Apache:

Reload the Apache configuration to apply your changes:

**sudo systemctl restart httpd**

#### 11. Develop Your Web Application:

Create and develop your web application within the `/var/www/html/your_project_directory` directory.

## 12. Test Your Web Application:

Access your web application in a web browser using the server's IP address or domain name.

**Result:** Successfully created the Dynamic Web Server.