

1. Write code for a simple user registration form for an event.

```
<!DOCTYPE>

<!--^caret ^ It Is Used To Know The Pattern That It Should Be Right And []-Square
Brackets Means Should Not Match The Inside Characters ^HiHello Should Start With HiHello
Only Caret-->

<html>
  <head>
    <title>Event Registration Form</title>
    <style>
      body{
        font-family: Arial,sans-serif;
        margin:0;
        display:flex;
        justify-content:center;
        align-items:center;
        height:100vh;
        background-color:#f8f9fa;
      }
      .form-container{
        background-color:#fff;
        padding:30px;
        border-radius:10px;
        box-shadow:0 0 10px rgba(0,0,0,0.1);
        width:350px;
      }
      h1{
        text-align:center;
        margin-bottom:20px;
        color:#333;
      }
    </style>
  </head>
  <body>
    <div class="form-container">
      <h1>Event Registration</h1>
      <form>
        <div>
          <label>First Name</label>
          <input type="text" name="first_name" required>
        </div>
        <div>
          <label>Last Name</label>
          <input type="text" name="last_name" required>
        </div>
        <div>
          <label>Email</label>
          <input type="email" name="email" required>
        </div>
        <div>
          <label>Phone Number</label>
          <input type="tel" name="phone" required>
        </div>
        <div>
          <label>Address</label>
          <input type="text" name="address" required>
        </div>
        <div>
          <label>City</label>
          <input type="text" name="city" required>
        </div>
        <div>
          <label>State</label>
          <input type="text" name="state" required>
        </div>
        <div>
          <label>Zip Code</label>
          <input type="text" name="zip_code" required>
        </div>
        <div>
          <label>Event Type</label>
          <input type="text" name="event_type" required>
        </div>
        <div>
          <label>Event Date</label>
          <input type="date" name="event_date" required>
        </div>
        <div>
          <label>Event Time</label>
          <input type="time" name="event_time" required>
        </div>
        <div>
          <label>Number of Guests</label>
          <input type="text" name="guests" required>
        </div>
        <div>
          <label>Message (Optional)</label>
          <input type="text" name="message" required>
        </div>
        <div>
          <input type="checkbox" name="terms_and_conditions" required> I agree to the terms and conditions
        </div>
        <div>
          <input type="submit" value="Register" style="background-color:#333; color:white; border:none; padding:10px; border-radius:5px; font-weight:bold; font-size:1em; width:100px; height:40px;">
        </div>
      </form>
    </div>
  </body>
</html>
```

```
.input-box
{
margin-bottom:15px;
}

.input-box input{
width:100%;

padding:10px;

border:1px solid #ccc;

border-radius:5px;

box-sizing:border-box;

outline:none;

transition:border-color 0.3s ease;

}

.input-box input:focus

{

border-color:#007bff;

}

.input-box label

{

display:block;

margin-bottom:5px;

color:#555;

}

.submit-btn

{

width:100%;

padding:10px;

background-color:#007bff;

color:white;

border:none;

border-radius:5px;
```

```
cursor:pointer;  
transition:background-color 0.3s ease;  
}  
.submit-btn:hover  
{  
background-color:#0056b3;  
}  
.success-msg  
{  
display:none;  
text-align:center;  
color:green;  
margin-top:15px;  
}  
</style>  
</head>  
<body>  
<div class="form-container">  
<form id="regForm">  
<h1>Event Registration</h1>  
<div class="input-box">  
<label for="firstName">First Name</label>  
<input type="text" id="firstName" name="firstName" required>  
</div>  
<div class="input-box">  
<label for="lastName">Last Name</label>  
<input type="text" id="lastName" name="lastName" required>  
</div>  
<div class="input-box">  
<label for="email">Email</label>  
<input type="email" id="email" name="email" required>
```

```
</div>

<div class="input-box">
    <label for="phNo">Phone Number</label>
    <input type="text" id="phNo" name="phNo" pattern="\d{10}" title="Phone No Must Be 10 Digits Only" required>
</div>

<button type="submit" class="submit-btn"> Register</button>

<div class="success-msg" id="successmsg">
    Thank You For Registering :)
</div>

</form>

</div>

<script>
    const form=document.getElementById('regForm');

    const successmsg=document.getElementById('successmsg');

    form.addEventListener('submit',function(event){
        event.preventDefault();
        successmsg.style.display='block';
        form.reset();
    });
</script>

</body>

</html>
```

Output:

A screenshot of a web browser window titled "Event Registration Form". The address bar shows the file path "D:/DEVOPS%20LAB/EventRegistrationForm.html". The page content is a "Event Registration" form with the following fields and values:

- First Name: User
- Last Name: 1234
- Email: S@gmail.com
- Phone Number: 9848999872

The "Register" button is blue. Below the form, a green message says "Thank You For Registering :)".

2. Explore Git and Git Hub Commands.

```
MINGW64:/c/Users/Vinit/23265A0504
```

```
Vinit@user MINGW64 ~  
$ mkdir 23265A0504  
  
Vinit@user MINGW64 ~  
$ cd 23265A0504
```

```
vinit@user MINGW64 ~/23265A0504  
$ git init  
Initialized empty Git repository in c:/Users/Vinit/23265A0504/.git/
```

```
vinit@user MINGW64 ~/23265A0504 (master)  
$ git config --global user.name "LasinkarSukrutha31"  
  
vinit@user MINGW64 ~/23265A0504 (master)  
$ git config --global user.email "lsukrutha_cse235a0504@mgit.ac.in"  
  
vinit@user MINGW64 ~/23265A0504 (master)  
$ git config user.name  
LasinkarSukrutha31  
  
vinit@user MINGW64 ~/23265A0504 (master)  
$ git config user.email  
lsukrutha_cse235a0504@mgit.ac.in
```

```
vinit@user MINGW64 ~/23265A0504 (master)  
$ mkdir Exp2
```

```
vinit@user MINGW64 ~/23265A0504 (master)  
$ cd Exp2
```

```
vinit@user MINGW64 ~/23265A0504/Exp2 (master)  
$ touch Registration.html  
  
vinit@user MINGW64 ~/23265A0504/Exp2 (master)  
$ git status  
On branch master  
  
No commits yet  
  
Untracked files:  
  (use "git add <file>..." to include in what will be committed)  
    ./  
  
nothing added to commit but untracked files present (use "git add" to track)  
  
vinit@user MINGW64 ~/23265A0504/Exp2 (master)  
$ ls  
EventRegistrationForm.html
```

```
vinit@user MINGW64 ~/23265A0504 (master)
$ git status
On branch master

No commits yet

Untracked files:
  (use "git add <file>..." to include in what will be committed)
    Exp2/

nothing added to commit but untracked files present (use "git add" to track)
```

```
MINGW64:/c/Users/Vinit/23265A0504
vinit@user MINGW64 ~/23265A0504 (master)
$ git add .

vinit@user MINGW64 ~/23265A0504 (master)
$ git status
On branch master

No commits yet

Changes to be committed:
  (use "git rm --cached <file>..." to unstage)
    new file:   Exp2/EventRegistrationForm.html
```

```
vinit@user MINGW64 ~/23265A0504 (master)
$ git commit -m "Second Commit"
[master (root-commit) dbdaa42] Second Commit
 1 file changed, 115 insertions(+)
 create mode 100644 Exp2/EventRegistrationForm.html
```

```
vinit@user MINGW64 ~/23265A0504 (master)
$ git remote
```

EXPERIMENT – 3

To Practice Source code management on Git Hub. Experiment with source code written in Exercise 1.

STEPS:

Create a New Branch Alternate

```
vinit@user MINGW64 ~/23265A0504 (master)
$ git branch alternate
```

Then, Switch the Master Branch to the alternate Branch

```
vinit@user MINGW64 ~/23265A0504 (master)
$ git switch alternate
Switched to branch 'alternate'
```

Now ,Open the Folder where the Registration Form is available & which is used to edit. Use nano Command in order to open the File.

```
vinit@user MINGW64 ~/23265A0504 (alternate)
$ cd Exp2

vinit@user MINGW64 ~/23265A0504/Exp2 (alternate)
$ nano EventRegistrationForm.html
```

Edit the code which is Given Below

```
<div class="input-box">
    <label for="alternatephNo">Alternate Phone Number</label>
    <input type="text" id="phNo" name="phNo" pattern="\d{10}">
</div>

<button type="submit" class="submit-btn">Register</button>
```

Save the changes using git commit. Now the commit “Extra Field Added” is committed.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (alternate)
$ git commit -am "Extra Field Added"
[alternate a105be2] Extra Field Added
 1 file changed, 10 insertions(+), 1 deletion(-)
```

Now, Switch the alternate Branch to the master Branch.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (alternate)
$ git switch master
Switched to branch 'master'
Your branch is up to date with 'origin/master'.
```

The Below snippet shows the current Branch which is master

```
vinit@user MINGW64 ~/23265A0504/Exp2 (master)
$ git branch
  alternate
* master
```

Now, We are switching to a New Branch ‘main’ using the Below Command.

After switching to the main Branch Merge the alternate Branch using the git merge branch_name.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (master)
$ git checkout -b main
Switched to a new branch 'main'

vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git merge alternate
Updating 5a19847..a105be2
Fast-forward
  Exp2/EventRegistrationForm.html | 11 ++++++++-+
  1 file changed, 10 insertions(+), 1 deletion(-)
```

Use the Push command inorder to add the Branch to the GitHub.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git push -u origin main
Enumerating objects: 7, done.
Counting objects: 100% (7/7), done.
Delta compression using up to 8 threads
Compressing objects: 100% (4/4), done.
Writing objects: 100% (4/4), 486 bytes | 486.00 KiB/s, done.
Total 4 (delta 1), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
remote:
remote: Create a pull request for 'main' on GitHub by visiting:
remote:     https://github.com/Lasinkarsukrutha31/23265A0504/pull/new/main
remote:
To https://github.com/Lasinkarsukrutha31/23265A0504.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
```

The Below Image shows the Exp2 Extra Field Added As Alternate Phone Number.

The image displays two screenshots. The top screenshot is a GitHub repository page for '23265A0504'. It shows the repository's activity, including a commit from 'Exp2' titled 'Extra Field Added' made 10 minutes ago. The bottom screenshot is a web browser window showing an 'Event Registration Form' with fields for First Name, Last Name, Email, Phone Number, and Alternate Phone Number.

Now we are in the main Branch which is Denoted with * Symbol.

We use git Branch command inorder to view all the Branches.

Also Use the git switch branch_name inorder to change the Branch Name.

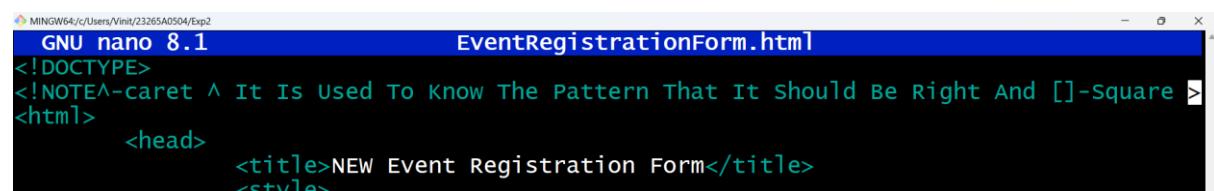
We switch to the alternate Branch inorder to change the Title.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git branch
  alternate
* main
  master

vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git switch alternate
Switched to branch 'alternate'
```

Open the File Of The Registration Form and Do The Edit which is shown Below.

```
vinit@user MINGW64 ~/23265A0504/Exp2 (alternate)
$ nano EventRegistrationForm.html
```



```
<!DOCTYPE>
<!NOTE^-caret ^ It Is Used To Know The Pattern That It Should Be Right And []-Square >
<html>
  <head>
    <title>NEW Event Registration Form</title>
    <style>
```

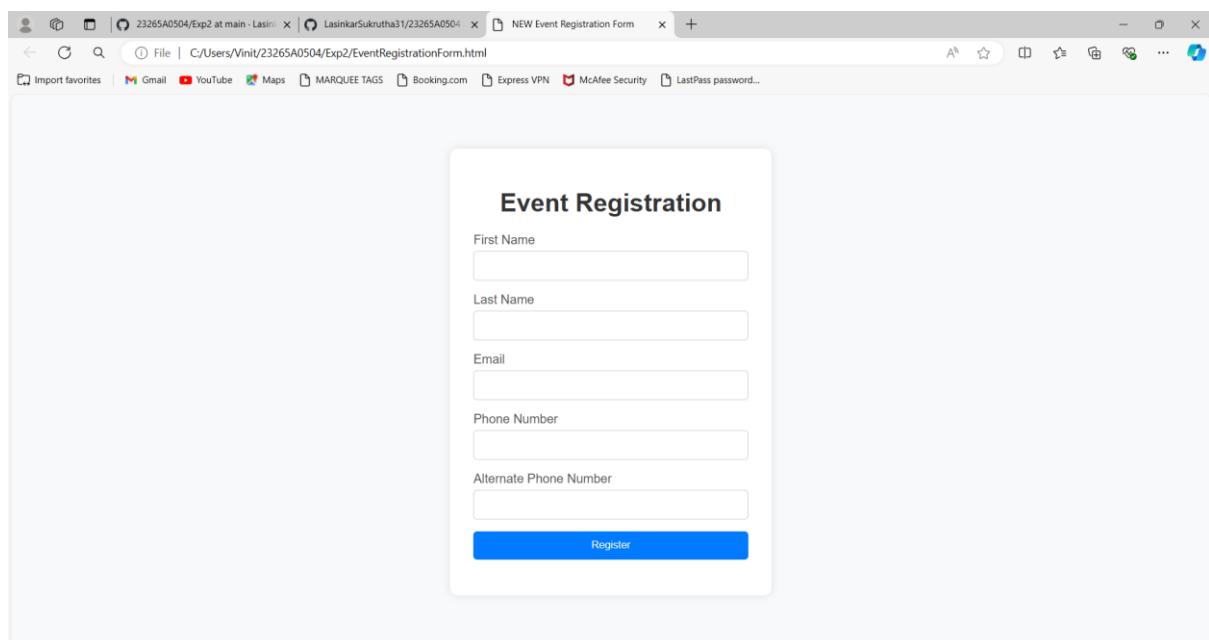
Now switch to the main Branch using git checkout -b main and merge the alternate Branch

```
vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git merge alternate
Already up to date.
```

Now push the main Branch using the Given Command as shown Below.

```
Vinit@user MINGW64 ~/23265A0504/Exp2 (main)
$ git push -u origin main
Enumerating objects: 15, done.
Counting objects: 100% (15/15), done.
Delta compression using up to 8 threads
Compressing objects: 100% (12/12), done.
Writing objects: 100% (12/12), 1.03 KiB | 1.03 MiB/s, done.
Total 12 (delta 4), reused 0 (delta 0), pack-reused 0 (from 0)
remote: Resolving deltas: 100% (4/4), completed with 1 local object.
To https://github.com/LasinkarSukrutha31/23265A0504.git
  a105be2..e85d5c5 main -> main
branch 'main' set up to track 'origin/main'.
```

Finally We have changed the Title Of The Page.

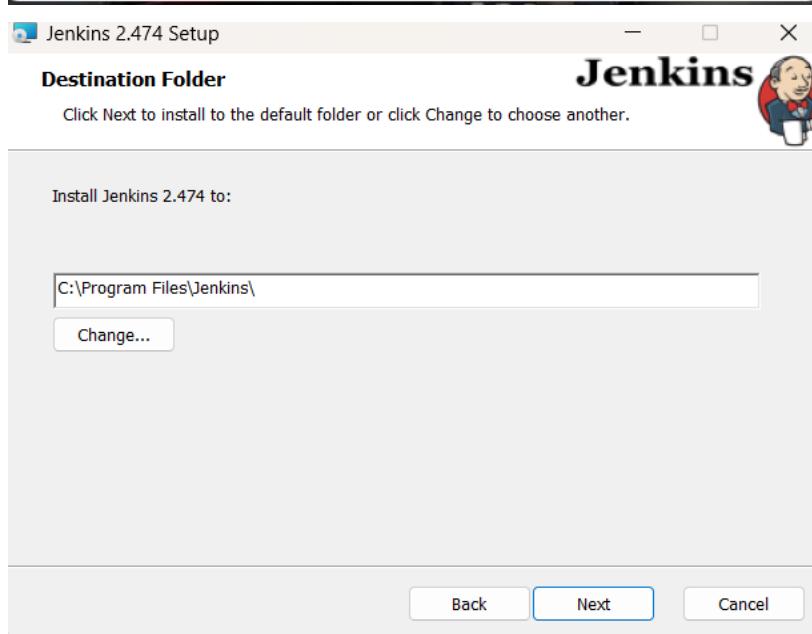


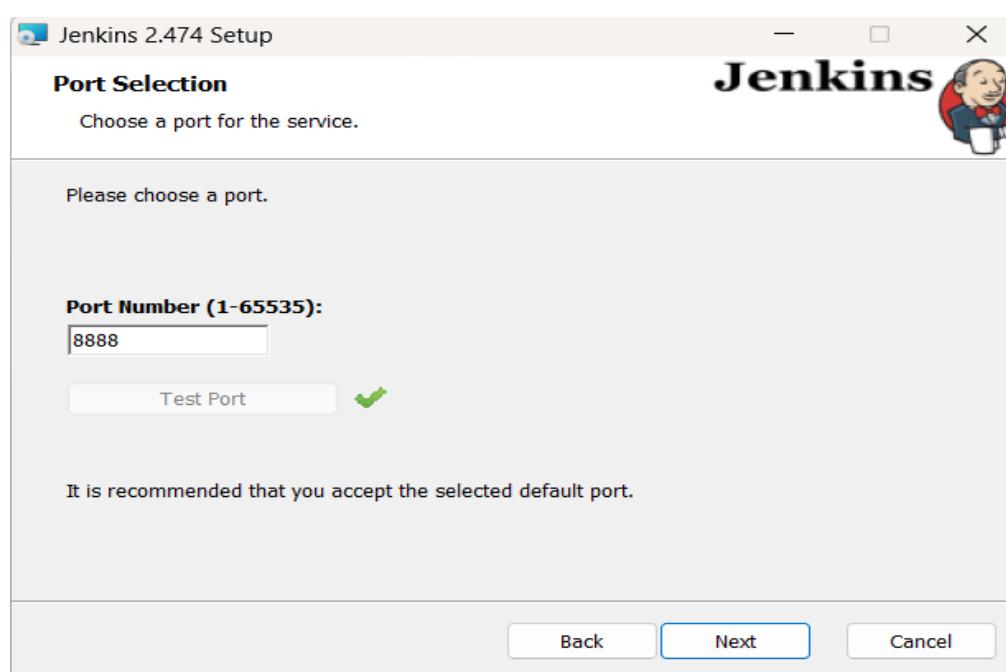
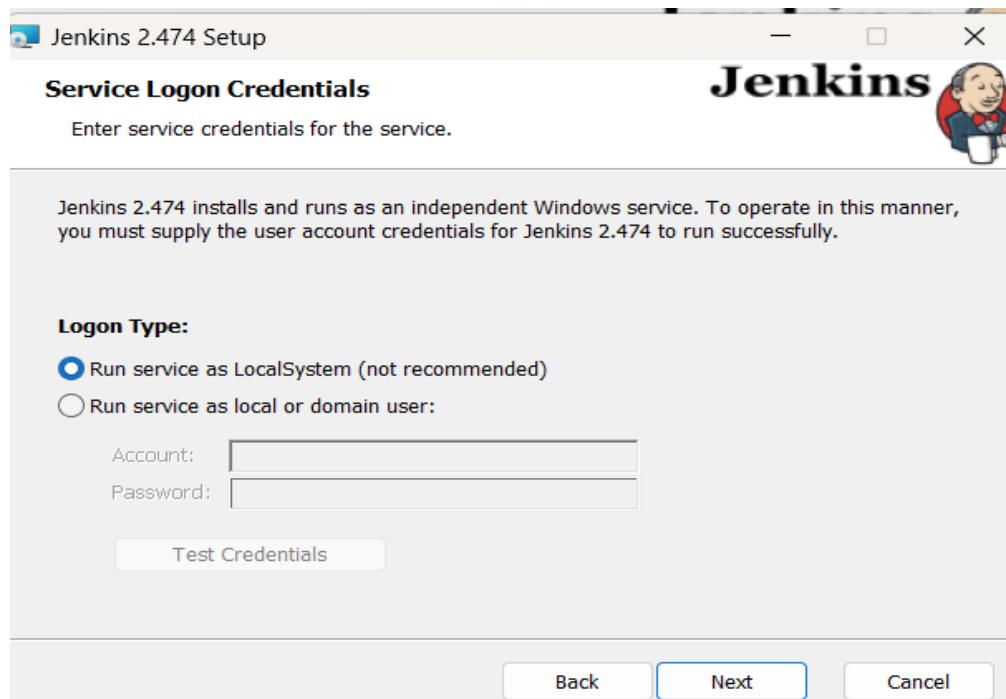
4. Jenkins installation and setup, explore the environment.

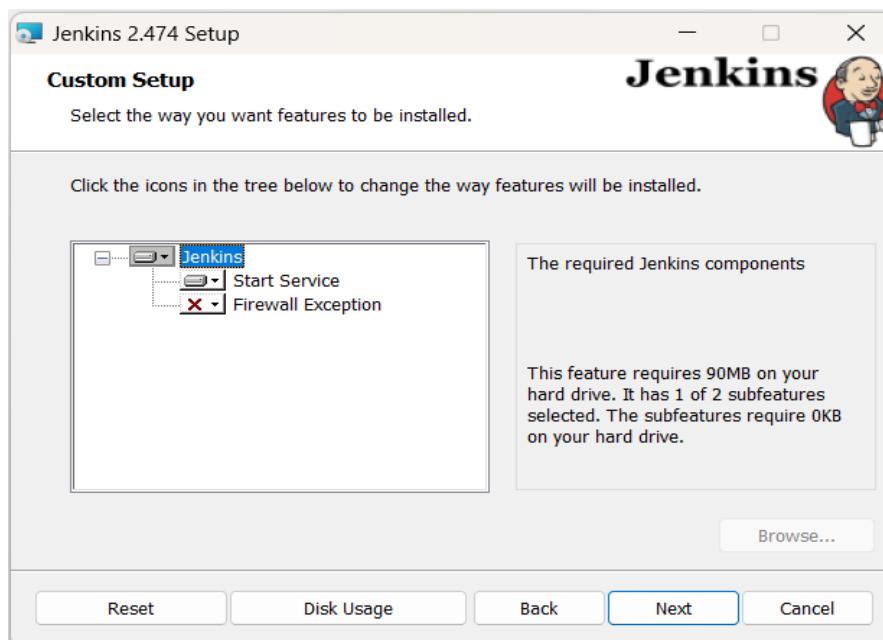
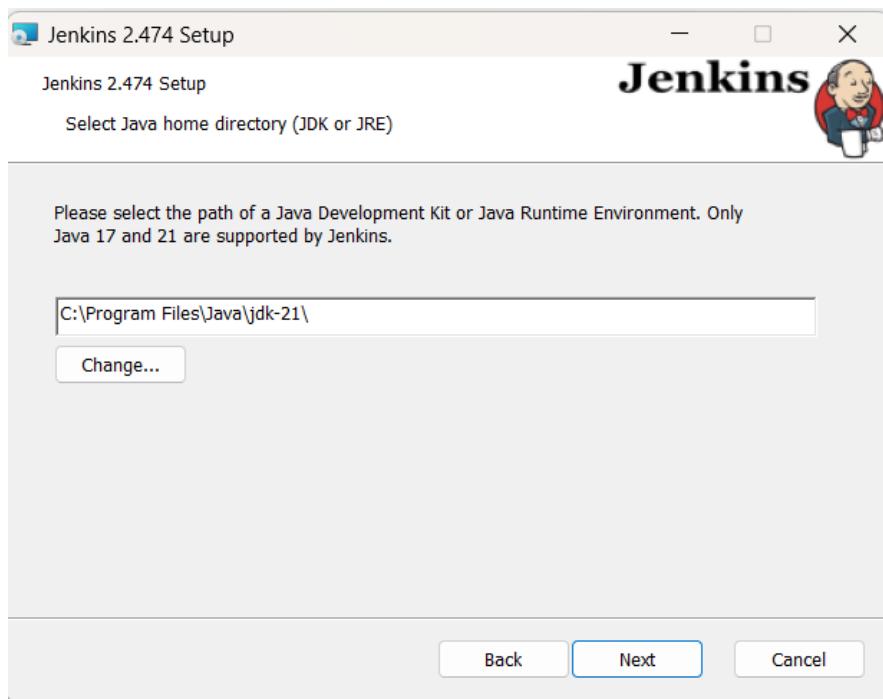
How To Install Jenkins In Windows?

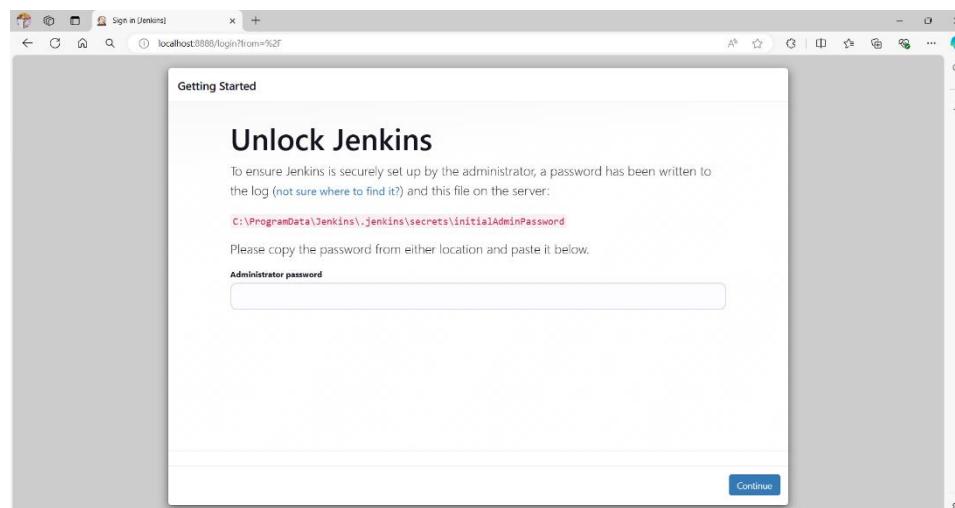
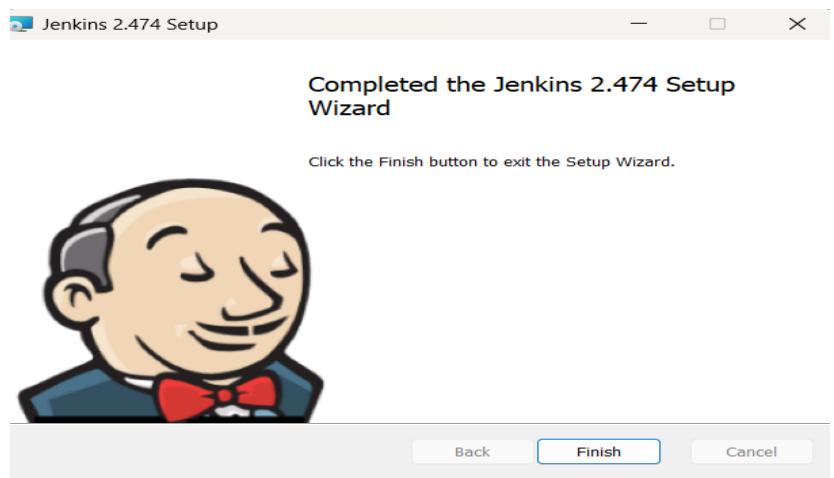
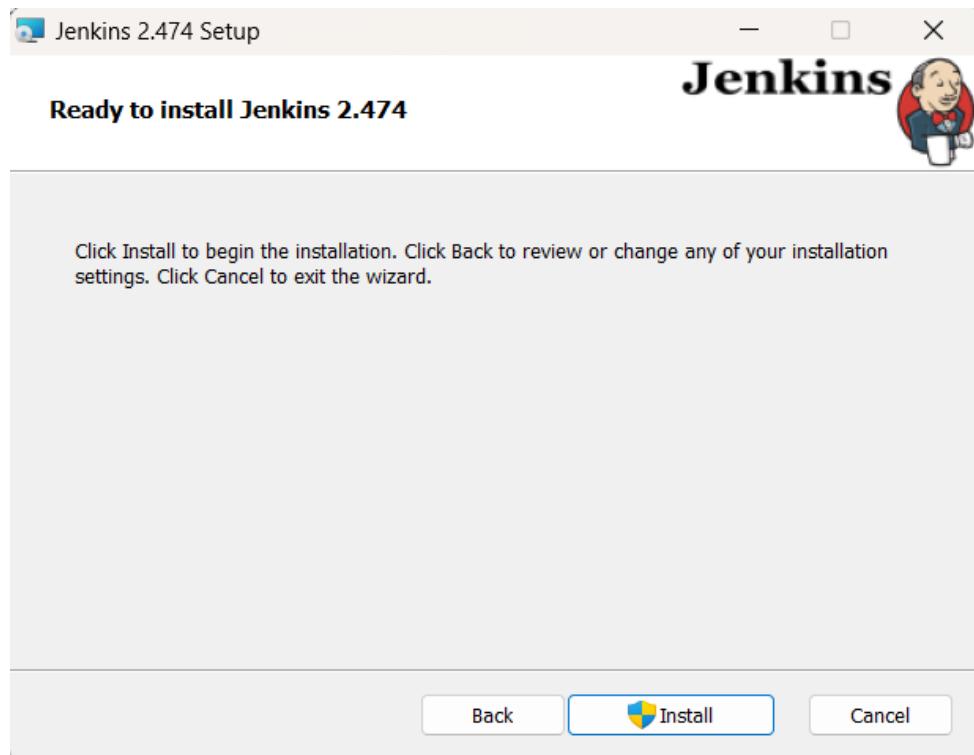
Steps:

- 1. Go To The Browser And Type Jenkins 2.47 Install For Windows**
- 2. Click On Download And Deploy**
- 3. In That Page Select Download Jenkins 2.474 for: Windows After That A Thanking Page Will Be Opened**
- 4. Now jenkins.msi will be Downloaded**

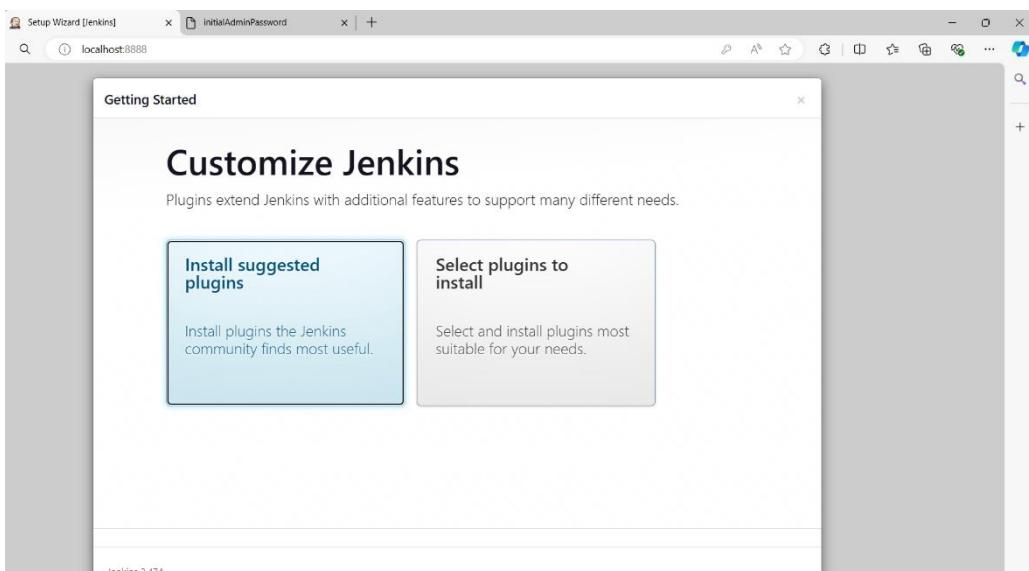
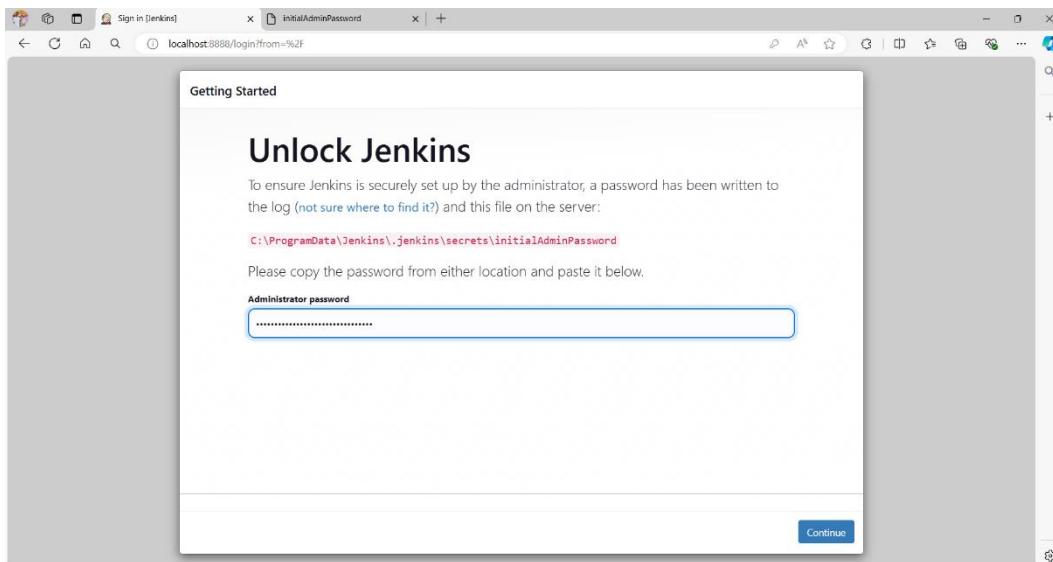




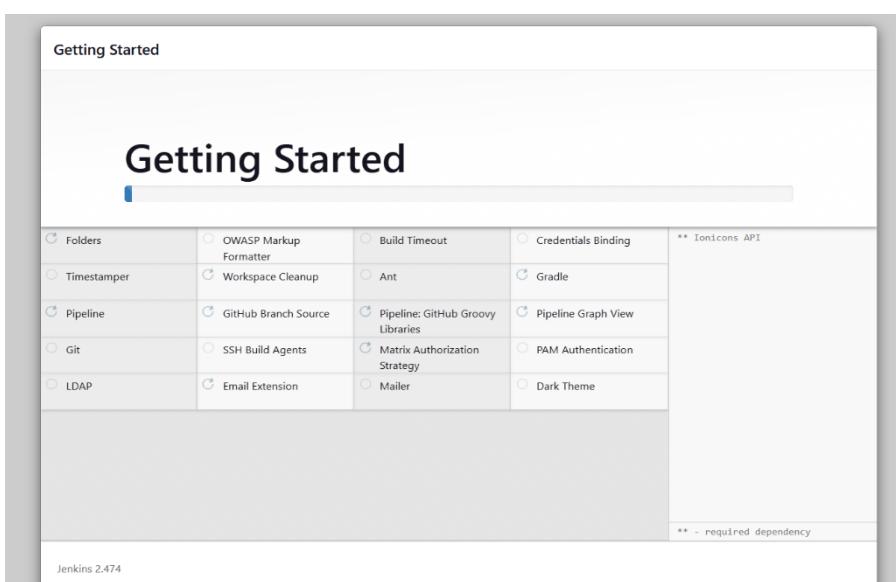




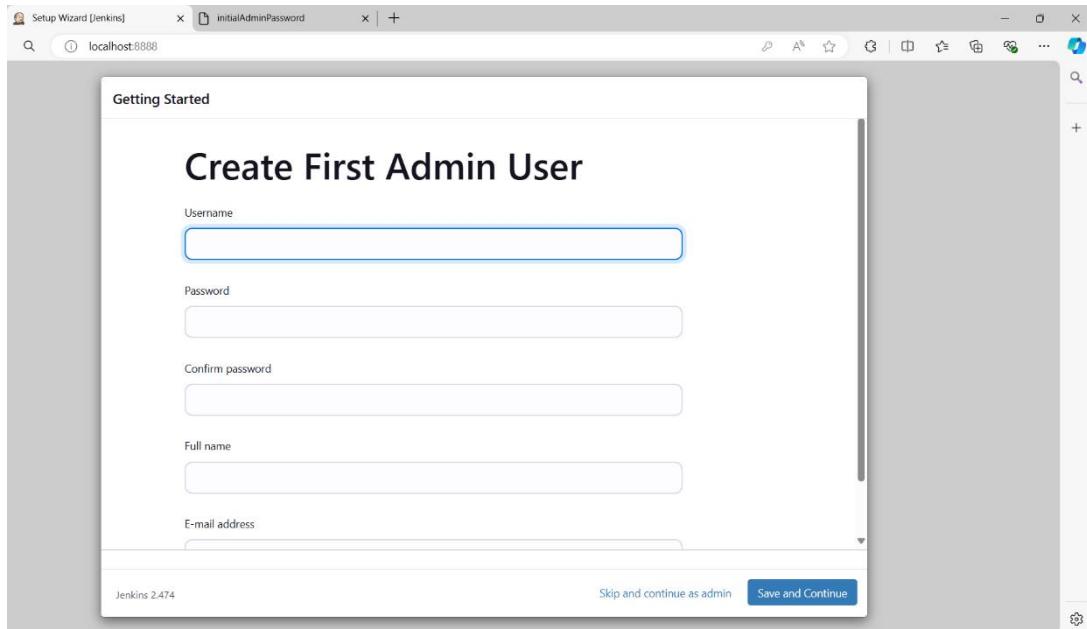
Copy The Password from the above location



Select Install Selected Plugins



Give Your Personal Information and select save and continue



After giving the Personal Information Details Jenkins URL Will Be Displayed On The Screen. Click on Save and Finish

Getting Started

Instance Configuration

Jenkins URL:

http://localhost:8888/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the `BUILD_URL` environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Jenkins 2.474

Not now

Save and Finish

Finally Jenkins is ready!

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)

Jenkins 2.474

The screenshot shows the Jenkins dashboard at localhost:8888. The top navigation bar includes links for Dashboard, New Item, Build History, Manage Jenkins, and My Views. On the left, there are sections for Build Queue (empty) and Build Executor Status (0/2). The main content area features a large "Welcome to Jenkins!" heading, a sub-section "Start building your software project", and a "Set up a distributed build" section with links for "Create a job", "Set up an agent", "Configure a cloud", and "Learn more about distributed builds". The bottom right corner shows links for REST API and Jenkins 2.474.

5. Demonstrate continuous integration and development using Jenkins.

The image consists of three vertically stacked screenshots of the Jenkins web interface, illustrating the process of creating a new item (job).

Screenshot 1: Jenkins Dashboard
The dashboard shows the Jenkins logo and navigation links: Dashboard, Build History, Manage Jenkins, and My Views. A red arrow points to the "+ New Item" button in the top left corner. The main content area features a "Welcome to Jenkins!" message, a "Start building your software project" section with a "Create a job" button, and a "Set up a distributed build" section with "Set up an agent" and "Configure a cloud" buttons.

Screenshot 2: New Item Creation Step
A modal window titled "New Item" is open. It asks for the "Enter an item name" (with "item1" typed in) and "Select an item type". The "Freestyle project" option is selected, with a detailed description provided. Other options shown are "Pipeline", "Multi-configuration project", and "Folder". A blue "OK" button is at the bottom right.

Screenshot 3: Item Configuration Step
The configuration page for "Item1" is shown. The "General" tab is selected, indicated by a blue bar. The "Enabled" switch is turned on. The "Description" field contains "Example CI/CD EXP5". Below it, there's a "Plain text" preview and a checkbox for "Discard old builds". On the left sidebar, other tabs like "Source Code Management", "Build Triggers", "Build Environment", "Build Steps", and "Post-build Actions" are listed.

Strategy

Log Rotation

Days to keep builds
if not empty, build records are only kept up to this number of days

▼

Max # of builds to keep
if not empty, only up to this number of build records are kept

[Advanced ▾](#)

GitHub project

Project url ?

[Advanced ▾](#)

This project is parameterized ?

Throttle builds ?

Execute concurrent builds if necessary ?

[Advanced ▾](#)

Note Add The Path Of The Git In the Git Section

Git installations

Git

Name

Path to Git executable ?

Install automatically ?

[Add Git ▾](#)

None

Git ?

Repositories ?

Repository URL ?

Credentials ?

[+ Add ▾](#)

[Advanced ▾](#)

[Add Repository](#)

To schedule a job to run every 2 hours in Jenkins, you would use:

Build Triggers

Trigger builds remotely (e.g., from scripts) ?

Build after other projects are built ?

Build periodically ?

Schedule ?

H */2 * * *

Would last have run at Thursday, 12 September, 2024 at 8:43:23 pm India Standard Time; would next run at Thursday, 12 September, 2024 at 10:43:23 pm India Standard Time.

GitHub hook trigger for GITScm polling ?

Poll SCM ?

This means the job will run at a random minute (H) every 2 hours (*/2).

Item1

Example CI/CD EXP5

Permalinks

The screenshot shows the Jenkins interface for a job named 'Item1'. The top navigation bar includes links for 'Dashboard', 'Item1', and '#13'. The main content area displays the build details for '#13 (Sep 12, 2024, 10:50:08 PM)'. Key information includes:

- Status: Green checkmark indicating success.
- Started by user: LasinkarSukrutha.
- This run spent:
 - 9 ms waiting.
 - 2.3 sec build duration.
 - 2.3 sec total from scheduled to completion.
- Revision: c7cc6d10cc4d9deab1826f2ec6d13d1f4fb8a
- Repository: <https://github.com/LasinkarSukrutha31/23265A0504.git>
- refs/remotes/origin/master

The screenshot shows the Jenkins interface for the 'Console Output' of build '#13'. The top navigation bar includes links for 'Dashboard', 'Item1', and '#13'. The main content area displays the build log:

```
Started by user SYSTEM
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\workspace\Item1
The recommended git tool is: NONE
No credentials specified
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\workspace\Item1\.git #
timeout=10
Fetching changes from the remote Git repository
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe config remote.origin.url https://github.com/LasinkarSukrutha31/23265A0504.git #
timeout=10
Fetching upstream changes from https://github.com/LasinkarSukrutha31/23265A0504.git
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe --version # timeout=10
> git --version # 'git version 2.46.0.windows.1'
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe fetch --tags --force --progress --
https://github.com/LasinkarSukrutha31/23265A0504.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out Revision c7cc6d10cc4d9deab1826f2ec6d13d1f4fb8a (refs/remotes/origin/master)
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe config core.sparsecheckout # timeout=10
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe checkout -f c7cc6d10cc4d9deab1826f2ec6d13d1f4fb8a # timeout=10
Commit message: "Update EventRegistrationForm.html"
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-list --no-walk c7cc6d10cc4d9deab1826f2ec6d13d1f4fb8a # timeout=10
Finished: SUCCESS
```

Dashboard > Item1 > #14

Status

#14 (Sep 12, 2024, 10:50:10 PM)

Started by user [LasinkarSukrutha](#)

This run spent:

- 0.26 sec waiting;
- 2.1 sec build duration;
- 2.4 sec total from scheduled to completion.

git Revision: c7cc6d10cc4d9deab1826f2ec6d13d1f4b44fb8a
Repository: <https://github.com/LasinkarSukrutha31/23265A0504.git>

No changes.

Dashboard > Item1 > #14 > Console Output

Console Output

```
Started by user LasinkarSukrutha
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\workspace\Item1
The recommended git tool is: NONE
No credentials specified
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\workspace\Item1\.git #
timeout=10
Fetching changes from the remote Git repository
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe config remote.origin.url https://github.com/LasinkarSukrutha31/23265A0504.git #
timeout=10
Fetching upstream changes from https://github.com/LasinkarSukrutha31/23265A0504.git
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe --version # timeout=10
> git --version # git version 2.46.0.windows.1'
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe fetch -tags -force --progress --
https://github.com/LasinkarSukrutha31/23265A0504.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-parse "refs/remotes/origin/master^{commit}" # timeout=10
Checking out revision c7cc6d10cc4d9deab1826f2ec6d13d1f4b44fb8a (refs/remotes/origin/master)
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe config core.sparsecheckout # timeout=10
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe checkout -f c7cc6d10cc4d9deab1826f2ec6d13d1f4b44fb8a # timeout=10
Commit message: "Update EventRegistrationForm.html"
> C:\Users\Vinit\AppData\Local\Programs\Git\cmd\git.exe rev-list --no-walk c7cc6d10cc4d9deab1826f2ec6d13d1f4b44fb8a # timeout=10
Finished: SUCCESS
```

Jenkins

Dashboard > Item1 > #15

Status

#15 (Sep 12, 2024, 11:12:41 PM)

Started by user [LasinkarSukrutha](#)

This run spent:

- 8 ms waiting;
- 3 sec build duration;
- 3 sec total from scheduled to completion.

git Revision: 7d2d0d02a10c32f701c27a081f4c34989eb3057d
Repository: <https://github.com/LasinkarSukrutha31/23265A0504.git>

Changes

- UpdatedTheTitle.html (commit: 4f161e0) ([details](#) / [githubweb](#))
- AddedNewField.html (commit: 7d2d0d0) ([details](#) / [githubweb](#))

[REST API](#) Jenkins 2.474

[23265A0504 / Exp1 / EventRegistrationForm.html](#)

LasinkarSukrutha31 UpdatedTheTitle.html

Code Blame 115 lines (111 loc) · 2.62 KB

```
1  <!DOCTYPE>
2  <!NOTE^~caret ^ It Is Used To Know The Pattern That It Should Be Right And []-Square Brackets Means Should Not Match 1
3  <html>
4      <head>
5          <title>ITS Event Registration Form Created By Sukrutha</title>
-
```

23265A0504 / Exp1 / EventRegistrationForm.html

Code Blame 115 lines (111 loc) · 2.62 KB

Raw ⌂ ⌄ ⌅

```
87         <div class="Input-box">
88             <label for="email">Email</label>
89             <input type="email" id="email" name="email" required>
90         </div>
91         <div class="Input-box">
92             <label for="phNo">Phone Number</label>
93             <input type="text" id="phNo" name="phNo" pattern="\d{10}" title="Phone No Must Be 10 Digits Only" required>
94         </div>
95         <button type="submit" class="submit-btn"> Register</button>
96         <div class="success-msg" id="successmsg">
97             Thank You For Registering :)
98         </div>
99     </form>
100    </div>
101    <script>
102        const form=document.getElementById('regForm');
103        const successmsg=document.getElementById('successmsg');
104        form.addEventListener('submit',function(event){
105            event.preventDefault();
106            successmsg.style.display='block';
107            form.reset();
108        });
109    </script>
110
111
112
113 </body>
114 </html>
```

6. Explore Docker commands for content management.

```
PS C:\WINDOWS\system32> docker version
Client:
  Version:            27.1.1
  API version:        1.46
  Go version:         go1.21.12
  Git commit:         6312585
  Built:              Tue Jul 23 19:57:57 2024
  OS/Arch:            windows/amd64
  Context:             desktop-linux

Server: Docker Desktop 4.33.1 (161083)
  Engine:
    Version:          27.1.1
    API version:      1.46 (minimum version 1.24)
    Go version:       go1.21.12
    Git commit:       cc13f95
    Built:            Tue Jul 23 19:57:19 2024
    OS/Arch:          linux/amd64
    Experimental:     false
  containerd:
    Version:          1.7.19
    GitCommit:        2bf793ef6dc9a18e00cb12efb64355c2c9d5eb41
  runc:
    Version:          1.7.19
    GitCommit:        v1.1.13-0-g58aa920
  docker-init:
    Version:          0.19.0
    GitCommit:        de40ad0
PS C:\WINDOWS\system32> docker --version
Docker version 27.1.1, build 6312585
```

```
PS C:\WINDOWS\system32> docker login
Authenticating with existing credentials...
Login Succeeded
```

```
PS C:\WINDOWS\system32> docker search nginx
NAME                           DESCRIPTION                                     STARS   OFFICIAL
nginx                          Official build of Nginx.                               20206  [OK]
nginx/nginx-quic-qns           NGINX QUIC interop                                         1
nginx/nginx-ingress             NGINX and NGINX Plus Ingress Controllers fo...  94
nginx/nginx-ingress-operator   NGINX Ingress Operator for NGINX and NGINX P...  2
nginx/nginx-prometheus-exporter NGINX Prometheus Exporter for NGINX and NGIN...  43
nginx/unit                      This repository is retired, use the Docker o...  63
nginx/unit-preview              Unit preview features                                         0
bitnami/nginx                   Bitnami container image for NGINX                         193
rapidfort/nginx                 RapidFort optimized, hardened image for NGINX          15
kasmweb/nginx                  An Nginx image based off nginx:alpine and in...  8
ubuntu/nginx                    Nginx, a high-performance reverse proxy & we...  118
chainguard/nginx                Minimal Wolfi-based nginx HTTP, reverse prox...  3
jitesoft/nginx                  Nginx on alpine linux                                         0
dockette/nginx                 Nginx SSL / HSTS / HTTP2                                         3
geokrety/nginx                 Our customized nginx image                                         0
docksal/nginx                  Nginx service image for Docksal                                         0
gluufederation/nginx           A customized NGINX image containing a consu...  1
intel/nginx                     0
okteto/nginx                   0
objectscale/nginx               0
vmware/nginx                   2
rancher/nginx                  2
bitnamiccharts/nginx           0
circleci/nginx                 This image is for internal use                           2
linuxserver/nginx              An Nginx container, brought to you by LinuxS...  218
```

```
PS C:\WINDOWS\system32> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
Digest: sha256:04ba374043cccd2fc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3
Status: Image is up to date for nginx:latest
docker.io/library/nginx:latest
```

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> docker inspect nginx
[{"Id": "sha256:39286ab8a5e14aeaf5fdd6e2fac76e0c8d31a0c07224f0ee5e6be502f12e93f3",
 "RepoTags": [
   "nginx:latest"
 ],
 "RepoDigests": [
   "nginx@sha256:04ba374043cccd2fc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3"
 ],
 "Parent": "",
 "Comment": "buildkit.dockerfile.v0",
 "Created": "2024-08-14T21:31:12Z",
 "DockerVersion": "",
 "Author": "",
 "Config": {
   "Hostname": "",
   "Domainname": "",
   "User": "",
   "AttachStdin": false,
   "AttachStdout": false,
   "AttachStderr": false,
   "ExposedPorts": {
     "80/tcp": {}
   },
   "Tty": false,
   "OpenStdin": false,
   "StdinOnce": false,
   "Env": [
     "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
     "NGINX_VERSION=1.27.1",
     "NJS VERSION=0.8.5",
     "NJS_RELEASE=1-bookworm",
     "PKG_RELEASE=1-bookworm",
     "DYNPKG_RELEASE=2~bookworm"
   ]
 }
```

```
Administrator: Windows PowerShell
"Cmd": [
  "nginx",
  "-g",
  "daemon off;"
],
"ArgsEscaped": true,
"Image": "",
"Volumes": null,
"WorkingDir": "",
"Entrypoint": [
  "/docker-entrypoint.sh"
],
"OnBuild": null,
"Labels": {
  "maintainer": "NGINX Docker Maintainers <docker-maint@nginx.com>"
},
"StopSignal": "SIGQUIT"
},
"Architecture": "amd64",
"Os": "linux",
"Size": 187708879,
"GraphDriver": {
  "Data": {
    "LowerDir": "/var/lib/docker/overlay2/9fa8dfefbf938f7693ac1da9bbe4c160e2a5695f82b99ee9b9382dd9eef1f83/diff:/var/lib/docker/overlay2/ac29d2e599bd07e7883085bd687277f4f579de1c2cb951540546efb7a59e9a0@/diff:/var/lib/docker/overlay2/8d5cf9742da75203dec9fd96b9b61b5322978a
er/overlay2/ac29d2e599bd07e7883085bd687277f4f579de1c2cb951540546efb7a59e9a0@/diff:/var/lib/docker/overlay2/8d5cf9742da75203dec9fd96b9b61b5322978a
"MergeDir": "/var/lib/docker/overlay2/2305f9a4be2d8e1bb3cb747af76e91a6026fd196292c927942e135b3844fe/merged",
"UpperDir": "/var/lib/docker/overlay2/2305f9a4be2d8e1bb3cb747af76e91a6026fd196292c927942e135b3844fe/diff",
"WorkDir": "/var/lib/docker/overlay2/2305f9a4be2d8e1bb3cb747af76e91a6026fd196292c927942e135b3844fe/work"
  },
  "Name": "overlay2"
},
"RootFS": {
  "Type": "layers",
  "Layers": [
    {
      "Type": "layers",
      "Layers": [
        "sha256:8e2ab394fabf557b00041a8f080b10b4e91c7027b7c174f095332c7ebb6501cb",
        "sha256:67796e30ff042303e3c8cbd8478e4f4f6377fd1754a168704f829c4e8a128f40",
        "sha256:eda13eb2d4c7b2c4cf60fbef992e18936613ad9067421ae1b59a413f3393267",
        "sha256:0fc6bb94eec5602c08d4261eedf9f122af7d122983c5ad8d8cf9ab108d9fd7bd",
        "sha256:2bdf51597158f7b0335cb1c082f8449a7ba1af678876158a05747eecca9b7604",
        "sha256:16907864a2d01d70c5c1e740085ace628f9d85b9eb38ced8c623e2c3ae36734d",
        "sha256:11de3d47036d69ed34dcf240a2d82e0ffc8a9dc8b77deeed65fb6380fbc84c8d"
      ]
    },
    "Metadata": {
      "LastTagTime": "2001-01-01T00:00:00Z"
    }
  ]
}
```

```
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG          IMAGE ID      CREATED      SIZE
nginx           latest       39286ab8a5e1   4 weeks ago  188MB
```

```
PS C:\WINDOWS\system32> docker image ls
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx          latest    39286ab8a5e1  4 weeks ago  188MB
```

```
PS C:\WINDOWS\system32> docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
```

```
PS C:\WINDOWS\system32> docker create nginx
946799a7e8c3b858b12efdf7a65eddbb33e890dcdd610963b8496696ae4651b
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
946799a7e8c3    nginx     "/docker-entrypoint..."  2 seconds ago  Created      suspicious_thompson
```

```
PS C:\WINDOWS\system32> docker start suspicious_thompson
suspicious_thompson
PS C:\WINDOWS\system32> docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
946799a7e8c3    nginx     "/docker-entrypoint..."  47 minutes ago  Up 5 seconds  80/tcp    suspicious_thompson
```

```
PS C:\WINDOWS\system32> docker stop 946799a7e8c3
946799a7e8c3
PS C:\WINDOWS\system32> docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
946799a7e8c3    nginx     "/docker-entrypoint..."  48 minutes ago  Exited (0) 7 seconds ago  suspicious_thompson
```

```
PS C:\WINDOWS\system32> docker create --name ngix_ser01 nginx
8094766cde242f9fdc093bc03cde41452ff828addfcdf12594c4cc65800fcdaa
```

```
PS C:\WINDOWS\system32> docker start ngix_ser01
ngix_ser01
```

```
PS C:\WINDOWS\system32> docker rename ngix_ser01 nginx_server1
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
8094766cde24    nginx     "/docker-entrypoint..."  3 minutes ago  Up 2 minutes  80/tcp    nginx_server1
946799a7e8c3    nginx     "/docker-entrypoint..."  58 minutes ago  Up 8 minutes  80/tcp    suspicious_thompson
```

```
PS C:\WINDOWS\system32> docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
8094766cde24    nginx     "/docker-entrypoint..."  4 minutes ago  Up 2 minutes  80/tcp    nginx_server1
946799a7e8c3    nginx     "/docker-entrypoint..."  59 minutes ago  Up 9 minutes  80/tcp    suspicious_thompson
PS C:\WINDOWS\system32>
```

```
PS C:\WINDOWS\system32> docker stop nginx_server1
nginx_server1
PS C:\WINDOWS\system32> docker ps
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
946799a7e8c3    nginx     "/docker-entrypoint..."  About an hour ago  Up 10 minutes  80/tcp    suspicious_thompson
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID      IMAGE      COMMAND      CREATED      STATUS      PORTS      NAMES
8094766cde24    nginx     "/docker-entrypoint..."  5 minutes ago   Exited (0) 7 seconds ago  nginx_server1
946799a7e8c3    nginx     "/docker-entrypoint..."  About an hour ago  Up 10 minutes  80/tcp    suspicious_thompson
```

```
Administrator: Windows PowerShell
PS C:\WINDOWS\system32> docker run --name nginx_server2 nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/09/17 15:38:37 [notice] 1#1: using the "epoll" event method
2024/09/17 15:38:37 [notice] 1#1: nginx/1.27.1
2024/09/17 15:38:37 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/09/17 15:38:37 [notice] 1#1: OS: Linux 5.15.153.1-microsoft-standard-WSL2
2024/09/17 15:38:37 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/09/17 15:38:37 [notice] 1#1: start worker processes
2024/09/17 15:38:37 [notice] 1#1: start worker process 29
2024/09/17 15:38:37 [notice] 1#1: start worker process 30
2024/09/17 15:38:37 [notice] 1#1: start worker process 31
2024/09/17 15:38:37 [notice] 1#1: start worker process 32
2024/09/17 15:38:37 [notice] 1#1: start worker process 33
2024/09/17 15:38:37 [notice] 1#1: start worker process 34
2024/09/17 15:38:37 [notice] 1#1: start worker process 35
2024/09/17 15:38:37 [notice] 1#1: start worker process 36
2024/09/17 15:39:27 [notice] 1#1: signal 3 (SIGQUIT) received, shutting down
2024/09/17 15:39:27 [notice] 31#31: gracefully shutting down
2024/09/17 15:39:27 [notice] 33#33: gracefully shutting down
2024/09/17 15:39:27 [notice] 32#32: gracefully shutting down
2024/09/17 15:39:27 [notice] 33#33: exiting
2024/09/17 15:39:27 [notice] 32#32: exiting
2024/09/17 15:39:27 [notice] 31#31: exiting
2024/09/17 15:39:27 [notice] 32#32: exit
2024/09/17 15:39:27 [notice] 33#33: exit
2024/09/17 15:39:27 [notice] 31#31: exit
2024/09/17 15:39:27 [notice] 30#30: gracefully shutting down
2024/09/17 15:39:27 [notice] 29#29: gracefully shutting down
2024/09/17 15:39:27 [notice] 30#30: exiting
2024/09/17 15:39:27 [notice] 29#29: exiting
2024/09/17 15:39:27 [notice] 29#29: exit
2024/09/17 15:39:27 [notice] 30#30: exit
2024/09/17 15:39:27 [notice] 35#35: gracefully shutting down
2024/09/17 15:39:27 [notice] 36#36: gracefully shutting down
2024/09/17 15:39:27 [notice] 35#35: exiting
2024/09/17 15:39:27 [notice] 36#36: exiting
2024/09/17 15:39:27 [notice] 35#35: exit
2024/09/17 15:39:27 [notice] 36#36: exit
2024/09/17 15:39:27 [notice] 34#34: gracefully shutting down
2024/09/17 15:39:27 [notice] 34#34: exiting
2024/09/17 15:39:27 [notice] 34#34: exit
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 36
2024/09/17 15:39:27 [notice] 1#1: worker process 36 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: signal 29 (SIGIO) received
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 33
2024/09/17 15:39:27 [notice] 1#1: worker process 30 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: worker process 33 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: signal 29 (SIGIO) received
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 30
2024/09/17 15:39:27 [notice] 1#1: worker process 29 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: signal 29 (SIGIO) received
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 34
2024/09/17 15:39:27 [notice] 1#1: worker process 34 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: signal 29 (SIGIO) received
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 31
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 31
2024/09/17 15:39:27 [notice] 1#1: worker process 31 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: signal 29 (SIGIO) received
2024/09/17 15:39:27 [notice] 1#1: signal 17 (SIGCHLD) received from 35
2024/09/17 15:39:27 [notice] 1#1: worker process 32 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: worker process 35 exited with code 0
2024/09/17 15:39:27 [notice] 1#1: exit
```

```
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED            STATUS              PORTS          NAMES
a55249e3221f        nginx              "/docker-entrypoi...  3 minutes ago      Exited (0) 2 minutes ago   nginx_server2
8094766cde24        nginx              "/docker-entrypoi...  11 minutes ago     Exited (0) 5 minutes ago   nginx_server1
946799a7e8c3        nginx              "/docker-entrypoi...  About an hour ago  Up 16 minutes           80/tcp          suspicious_thompson
```

```

PS C:\WINDOWS\system32> docker run -d --name nginx_server3 nginx
812c9c74d8a6cb33fed13edee1e0e950ac8cb3062babe362be7024bc4744ed5
PS C:\WINDOWS\system32> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
812c9c74d8a6 nginx "/docker-entrypoint..." 10 seconds ago Up 9 seconds 80/tcp nginx_server3
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 17 minutes 80/tcp suspicious_thompson
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
812c9c74d8a6 nginx "/docker-entrypoint..." 14 seconds ago Up 13 seconds 80/tcp nginx_server3
a55249e3221f nginx "/docker-entrypoint..." 4 minutes ago Exited (0) 4 minutes ago nginx_server2
8094766cde24 nginx "/docker-entrypoint..." 12 minutes ago Exited (0) 7 minutes ago nginx_server1
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 17 minutes 80/tcp suspicious_thompson
PS C:\WINDOWS\system32> docker stop nginx_server3
nginx_server3
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
812c9c74d8a6 nginx "/docker-entrypoint..." About a minute ago Exited (0) 2 seconds ago nginx_server3
a55249e3221f nginx "/docker-entrypoint..." 5 minutes ago Exited (0) 4 minutes ago nginx_server2
8094766cde24 nginx "/docker-entrypoint..." 13 minutes ago Exited (0) 8 minutes ago nginx_server1
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 18 minutes 80/tcp suspicious_thompson
PS C:\WINDOWS\system32> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 18 minutes 80/tcp suspicious_thompson

```

```

PS C:\WINDOWS\system32> docker start nginx_server3
nginx_server3
PS C:\WINDOWS\system32> docker ps
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
812c9c74d8a6 nginx "/docker-entrypoint..." 3 minutes ago Up 11 seconds 80/tcp nginx_server3
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 20 minutes 80/tcp suspicious_thompson
PS C:\WINDOWS\system32> docker kill nginx_server3
nginx_server3

```

```

PS C:\WINDOWS\system32> docker exec -it nginx_server3 /bin/bash
Error response from daemon: container 812c9c74d8a6cb33fed13edee1e0e950ac8cb3062babe362be7024bc4744ed5 is not running
PS C:\WINDOWS\system32> docker start nginx_server3
nginx_server3
PS C:\WINDOWS\system32> docker exec -it nginx_server3 /bin/bash
root@812c9c74d8a6:/# ls
bin boot dev docker-entrypoint.d docker-entrypoint.sh etc home lib lib64 media mnt opt proc root run sbin srv sys tmp usr var
root@812c9c74d8a6:/# echo "Hello World!"
Hello World!
root@812c9c74d8a6:/# exit
exit

```

```

PS C:\WINDOWS\system32> docker rm nginx_server3
Error response from daemon: cannot remove container "/nginx_server3": container is running: stop the container before removing or force remove
PS C:\WINDOWS\system32> docker stop nginx_server3
nginx_server3
PS C:\WINDOWS\system32> docker rm nginx_server3
nginx_server3

```

```

PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES
a55249e3221f nginx "/docker-entrypoint..." 17 minutes ago Exited (0) 16 minutes ago nginx_server2
8094766cde24 nginx "/docker-entrypoint..." 24 minutes ago Exited (0) 19 minutes ago nginx_server1
946799a7e8c3 nginx "/docker-entrypoint..." About an hour ago Up 29 minutes 80/tcp suspicious_thompson

```

```

PS C:\WINDOWS\system32> docker rm nginx_server2
nginx_server2
PS C:\WINDOWS\system32> docker rm nginx_server1
nginx_server1

```

```

PS C:\WINDOWS\system32> docker rm suspicious_thompson
suspicious_thompson
PS C:\WINDOWS\system32> docker ps -a
CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

```

```
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx          latest    39286ab8a5e1   4 weeks ago   188MB
PS C:\WINDOWS\system32> docker rmi 39286ab8a5e1
Untagged: nginx:latest
Untagged: nginx@sha256:04ba374043ccdfc5c593885c0eacddebabd5ca375f9323666f28dfd5a9710e3
Deleted: sha256:39286ab8a5e14aeaf5fdd6e2fac76e0c8d31a0c07224f0ee5e6be502f12e93f3
Deleted: sha256:d71f9b66dd3f9ef3164d7023cc99ce344d209decd5d6cd56166c0f7a2f812c06
Deleted: sha256:634d30adf8a2232256b2871e268c8f0fdb2c348374cd8510920a76db56868e16
Deleted: sha256:f230be3f4e104c7414b7ce9c8d301f37061b4e06afe010878ea55f858d89f7f3
Deleted: sha256:c5210c8480131b7dbc5ad8adc425d68cd7a8848ee2e07de3c69cb88a4b8fd662
Deleted: sha256:d4f588811a337e0b01da46772d02f7f82ee5f9baff6886365ffb912d455f4f53
Deleted: sha256:d73e21a1e27b0184b36f6578c8d0722a44da253bc74cd72e9788763f4a4de08f
Deleted: sha256:8e2ab394fabf557b00041a8f080b10b4e91c7027b7c174f095332c7ebb6501cb
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
```

```
PS C:\WINDOWS\system32> docker pull hello-world
Using default tag: latest
latest: Pulling from library/hello-world
c1ec31eb5944: Pull complete
Digest: sha256:91fb4b041da273d5a3273b6d587d62d518300a6ad268b28628f74997b93171b2
Status: Downloaded newer image for hello-world:latest
docker.io/library/hello-world:latest
```

```
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx          latest    39286ab8a5e1   4 weeks ago   188MB
hello-world    latest    d2c94e258dc8   16 months ago  13.3kB
```

```
PS C:\WINDOWS\system32> docker run hello-world
Hello from Docker!
This message shows that your installation appears to be working correctly.

To generate this message, Docker took the following steps:
1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
   (amd64)
3. The Docker daemon created a new container from that image which runs the
   executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it
   to your terminal.

To try something more ambitious, you can run an Ubuntu container with:
$ docker run -it ubuntu bash

Share images, automate workflows, and more with a free Docker ID:
https://hub.docker.com/

For more examples and ideas, visit:
https://docs.docker.com/get-started/
```

```
PS C:\WINDOWS\system32> docker create --name nginx_suku nginx
8e02941effb3c3643ee5d7da8d9484aae565840e744b7e0d76b5f870bfddfa11
PS C:\WINDOWS\system32> docker start nginx_suku
nginx_suku
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE
nginx           latest        39286ab8a5e1   4 weeks ago    188MB
hello-world     latest        d2c94e258dcb   16 months ago   13.3kB
PS C:\WINDOWS\system32> docker ps
CONTAINER ID    IMAGE          COMMAND       CREATED        STATUS        PORTS     NAMES
8e02941effb3   nginx          "/docker-entrypoint..."  34 seconds ago  Up 16 seconds  80/tcp    nginx_suku
PS C:\WINDOWS\system32> docker exec -it nginx_suku sh
# echo "Inside Container"
Inside Container
# touch t1.txt
# exit

What's next:
Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug nginx\_suku
Learn more at https://docs.docker.com/go/debug-cli/
```

```
PS C:\WINDOWS\system32> docker cp nginx_suku:/t1.txt .
Successfully copied 1.54kB to C:\WINDOWS\system32\.
PS C:\WINDOWS\system32>
```

```
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE
nginx           latest        39286ab8a5e1   4 weeks ago    188MB
hello-world     latest        d2c94e258dcb   16 months ago   13.3kB
PS C:\WINDOWS\system32> docker commit nginx_suku new-nginx:latest
sha256:1251846fe05b2bf9355673b37727f739e79dd4fd7f55307d1cf13c012f0a69eb
PS C:\WINDOWS\system32> docker ps
CONTAINER ID    IMAGE          COMMAND       CREATED        STATUS        PORTS     NAMES
8e02941effb3   nginx          "/docker-entrypoint..."  4 minutes ago  Up 3 minutes  80/tcp    nginx_suku
PS C:\WINDOWS\system32> docker images
REPOSITORY      TAG          IMAGE ID      CREATED        SIZE
new-nginx       latest        1251846fe05b   13 seconds ago  188MB
nginx           latest        39286ab8a5e1   4 weeks ago    188MB
hello-world     latest        d2c94e258dcb   16 months ago   13.3kB
```

```
PS C:\WINDOWS\system32> docker save 1251846fe05b -o new_nginx.tar
PS C:\WINDOWS\system32> docker load -i new_nginx.tar
Loaded image ID: sha256:1251846fe05b2bf9355673b37727f739e79dd4fd7f55307d1cf13c012f0a69eb
PS C:\WINDOWS\system32>
```

7. Develop a simple containerized application using Docker.

```
PS C:\Program Files\Docker\Docker> docker pull nginx
Using default tag: latest
latest: Pulling from library/nginx
85177e2c6f39: Already exists
5b8e768fb22d: Already exists
9ab66c386e9c: Already exists
4b563e5e980a: Already exists
302e3ee49805: Download complete
55af3c8febf2: Already exists
d07412f52e9d: Download complete
Digest: sha256:d2eb56950b84efe34f966a2b92efb1a1a2ea53e7e93b94cdf45a27cf3cd47fc0
Status: Downloaded newer image for nginx:latest
docker.io/library/nginx:latest
PS C:\Program Files\Docker\Docker> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx          latest    d2eb56950b84   12 days ago   279MB
```

```
PS C:\Users\Sukrutha.user> docker ps
CONTAINER ID        IMAGE               COMMAND                  CREATED             STATUS              PORTS                         NAMES
e80ce4b15e56        reg                "/docker-entrypoint..."   3 minutes ago     Up 3 minutes       0.0.0.0:1288->80/tcp   focused_ptolemy
a61a4cc1065f        b0fe52fbe88a      "/docker-entrypoint..."   18 minutes ago    Up 18 minutes      80/tcp, 0.0.0.0:8088->88/tcp   practical_lovelace
PS C:\Users\Sukrutha.user> docker exec -it e80ce4b15e56 /bin/bash
root@e80ce4b15e56:/# ls /usr/share/nginx/html/
50x.html EventRegistrationForm.html index.html
root@e80ce4b15e56:/# exit
exit

What's next:
Try Docker Debug for seamless, persistent debugging tools in any container or image → docker debug e80ce4b15e56
Learn more at https://docs.docker.com/go/debug-cli/

PS C:\Program Files\Docker\Docker> cd "C:\DEVOPS LAB"
PS C:\DEVOPS LAB> docker images
REPOSITORY      TAG      IMAGE ID      CREATED      SIZE
nginx          latest    d2eb56950b84   12 days ago   279MB
PS C:\DEVOPS LAB> ls

Directory: C:\DEVOPS LAB

Mode                LastWriteTime         Length Name
----                -----          ----
-a----       07-08-2024 20:00            2772 EventRegistrationForm.html
-a----       18-09-2024 22:35        2078920 Exp 6 & 7.docx

PS C:\DEVOPS LAB> New-Item -Path . -Name "Dockerfile" -ItemType "file"

Directory: C:\DEVOPS LAB

Mode                LastWriteTime         Length Name
----                -----          ----
-a----       15-10-2024 19:19                 0 Dockerfile
>>
```

```
# Use the official Nginx image from Docker Hub
FROM nginx:latest
```

```
# Copy the HTML file into the Nginx container
COPY EventRegistrationForm.html /usr/share/nginx/html/index.html
```

```
# Expose port 8082
EXPOSE 8082
```

```

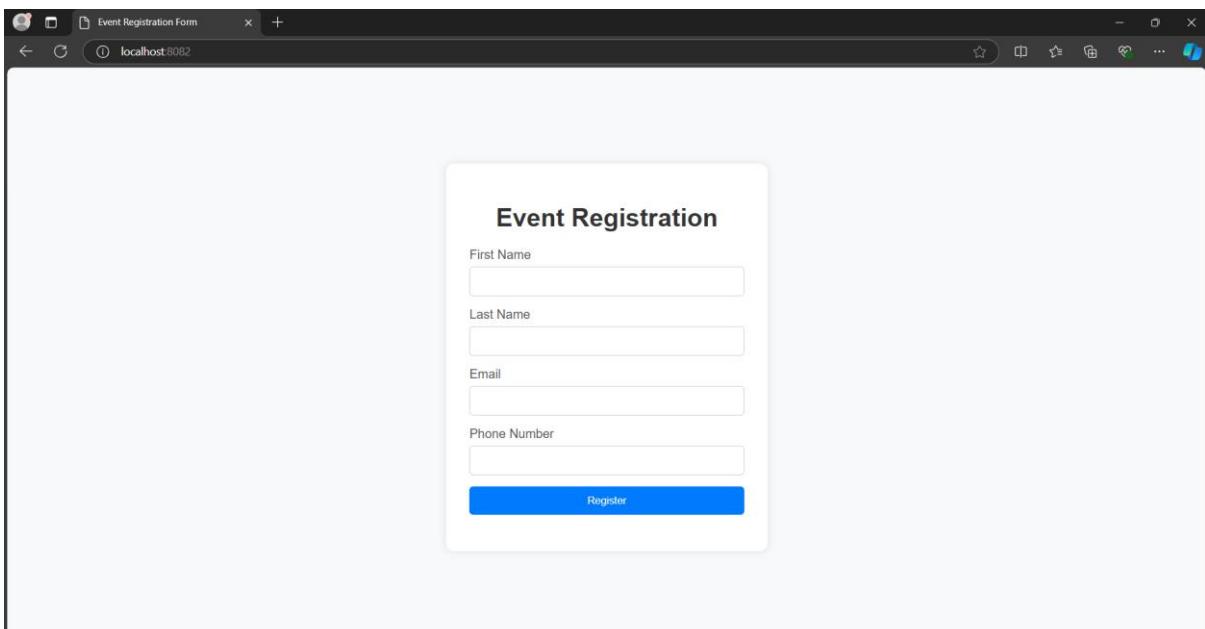
PS C:\DEVOPS LAB> docker build -t simple-nginx .
[+] Building 0.6s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 256B
=> [internal] load metadata for docker.io/library/nginx:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [1/2] FROM docker.io/library/nginx:latest@sha256:d2eb56950b84efe34f966a2b92efb1a1a2ea53e7e93b94cdf45a27cf3cd47
=> => resolve docker.io/library/nginx:latest@sha256:d2eb56950b84efe34f966a2b92efb1a1a2ea53e7e93b94cdf45a27cf3cd47
=> [internal] load build context
=> => transferring context: 48B
=> CACHED [2/2] COPY EventRegistrationForm.html /usr/share/nginx/html/index.html
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:e9a8e5325a6643125c3b685b10fdfc9d3fb7d0c9832291bffd4ee1a914b013cb
=> => exporting config sha256:6487b240b580f19410a4d40e38afabacee971f8036cde93026fff3b3d3b99126
=> => exporting attestation manifest sha256:2aca04115da39537dab76ff749c7dffff37014b50435230c92a05b53bc7180c34
=> => exporting manifest list sha256:0586767bc85050fc7d6a776e1b9a346fb7280388385a7f5ec60efb7eaaf9a26c
=> => naming to docker.io/library/simple-nginx:latest
=> => unpacking to docker.io/library/simple-nginx:latest
PS C:\DEVOPS LAB> docker run -p 8082:8082 simple-nginx
/docker-entrypoint.sh: /docker-entrypoint.d/ is not empty, will attempt to perform configuration
/docker-entrypoint.sh: Looking for shell scripts in /docker-entrypoint.d/
/docker-entrypoint.sh: Launching /docker-entrypoint.d/10-listen-on-ipv6-by-default.sh
10-listen-on-ipv6-by-default.sh: info: Getting the checksum of /etc/nginx/conf.d/default.conf
10-listen-on-ipv6-by-default.sh: info: Enabled listen on IPv6 in /etc/nginx/conf.d/default.conf
/docker-entrypoint.sh: Sourcing /docker-entrypoint.d/15-local-resolvers.envsh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/20-envsubst-on-templates.sh
/docker-entrypoint.sh: Launching /docker-entrypoint.d/30-tune-worker-processes.sh
/docker-entrypoint.sh: Configuration complete; ready for start up
2024/10/15 14:19:52 [notice] 1#1: using the "epoll" event method
2024/10/15 14:19:52 [notice] 1#1: nginx/1.27.2
2024/10/15 14:19:52 [notice] 1#1: built by gcc 12.2.0 (Debian 12.2.0-14)
2024/10/15 14:19:52 [notice] 1#1: OS: Linux 5.15.153.1-microsoft-standard-WSL2
2024/10/15 14:19:52 [notice] 1#1: getrlimit(RLIMIT_NOFILE): 1048576:1048576
2024/10/15 14:19:52 [notice] 1#1: start worker processes
2024/10/15 14:19:52 [notice] 1#1: start worker process 29
2024/10/15 14:19:52 [notice] 1#1: start worker process 30
2024/10/15 14:19:52 [notice] 1#1: start worker process 31

```

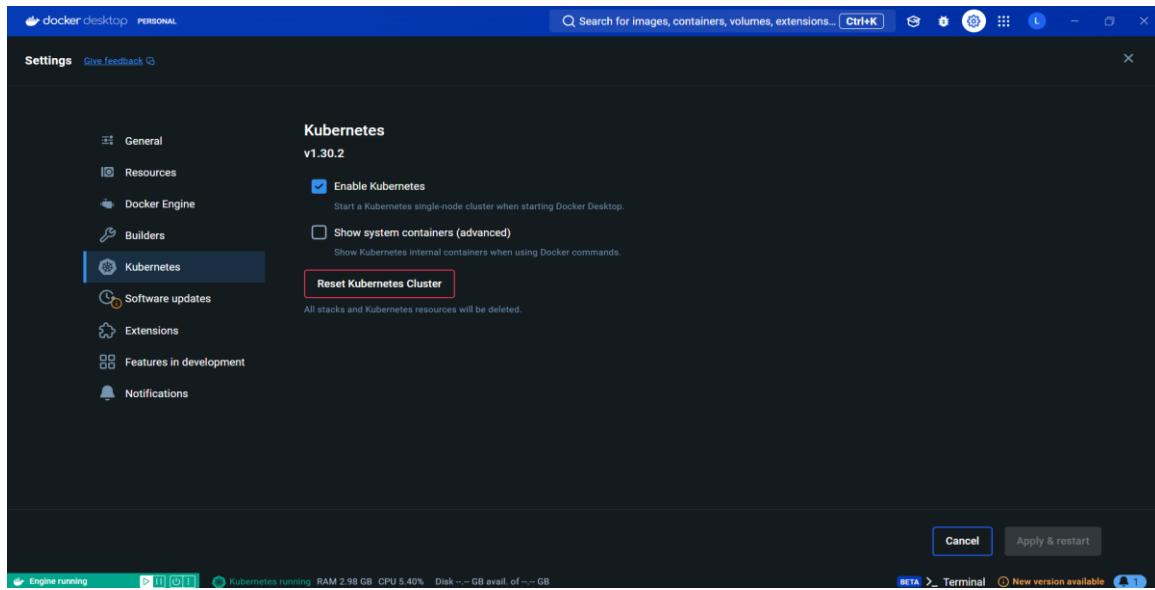
```

PS C:\DEVOPS LAB> docker images
REPOSITORY          TAG      IMAGE ID      CREATED       SIZE
simple-python-server    latest   a6981b38d416  26 minutes ago  279MB
simple-nginx          latest   0586767bc850  26 minutes ago  279MB
nginx                latest   d2eb56950b84  12 days ago   279MB

```



8. Integrate Kubernetes and Docker.



```
PS C:\WINDOWS\system32> kubectl get nodes
NAME           STATUS    ROLES      AGE   VERSION
docker-desktop   Ready    control-plane   6d11h   v1.30.2
```

9. Automate the process of running containerized application in exercise 7 using Kubernetes.

```
PS D:\DEVOPS LAB\Exp 8&9> dir

Directory: D:\DEVOPS LAB\Exp 8&9

Mode                LastWriteTime     Length Name
----                -----          ---- 
-a----       12-11-2024      22:16        284 Dockerfile.txt
-a----       07-08-2024      20:00      2772 EventRegistrationForm.html

PS D:\DEVOPS LAB\Exp 8&9> ren Dockerfile.txt Dockerfile
PS D:\DEVOPS LAB\Exp 8&9> dir

Directory: D:\DEVOPS LAB\Exp 8&9

Mode                LastWriteTime     Length Name
----                -----          ---- 
-a----       12-11-2024      22:16        284 Dockerfile
-a----       07-08-2024      20:00      2772 EventRegistrationForm.html
```

```
PS D:\DEVOPS LAB\Exp 8&9> docker build -t lasinkarsukrutha31/eventreg:latest .
[+] Building 0.4s (7/7) FINISHED
  => [internal] load build definition from Dockerfile
  => => transferring dockerfile: 309B
  => [internal] load metadata for docker.io/library/nginx:latest
  => [internal] load .dockerignore
  => => transferring context: 2B
  => [internal] load build context
  => => transferring context: 48B
  => [1/2] FROM docker.io/library/nginx:latest@sha256:bc5eac5eafc581aeda3008b4b1f07ebba230de2f27d47767129a6a985c84f470
  => => resolve docker.io/library/nginx:latest@sha256:bc5eac5eafc581aeda3008b4b1f07ebba230de2f27d47767129a6a985c84f470
  => CACHED [2/2] COPY EventRegistrationForm.html /usr/share/nginx/html/
  => exporting to image
  => => exporting layers
  => => exporting manifest sha256:4683712c98e2e056ab29fd51833bff91df8e0e769a912f5084f62fc64088a8a
  => => exporting config sha256:a39a7328397cf93dd1c2e05cccc92bb9b62bcbff4f87f12aa76a71370ca362d
  => => exporting attestation manifest sha256:f280fd3358f9f002f42755aa781f526ed7c17149bdbba2385bd8d6c395b809d3c
  => => exporting manifest list sha256:437d7e7a98a39f5be28703b52c25cdc70173dbe1fe2bfc033029d62272ce8f5c
  => => naming to docker.io/lasinkarsukrutha31/eventreg:latest
  => => unpacking to docker.io/lasinkarsukrutha31/eventreg:latest

What's next:
  View a summary of image vulnerabilities and recommendations → docker scout quickview

PS D:\DEVOPS LAB\Exp 8&9> docker push lasinkarsukrutha31/eventreg:latest
The push refers to repository [docker.io/lasinkarsukrutha31/eventreg]
4b0adc47c460: Mounted from library/nginx
773c63cd62e4: Mounted from library/nginx
2d429b9e73a6: Mounted from library/nginx
1d2712910bdf: Mounted from library/nginx
9b1039c85176: Mounted from library/nginx
171eebbdf235: Mounted from library/nginx
978a425af317: Pushed
9ad567d3b8a2: Mounted from library/nginx
31b75a050770: Pushed
latest: digest: sha256:437d7e7a98a39f5be28703b52c25cdc70173dbe1fe2bfc033029d62272ce8f5c size: 856
```

The screenshot shows the Docker Hub interface. At the top, there's a banner with 'New More Docker. Easy Access. New Streamlined Plans. Learn more.' Below it, the navigation bar includes 'dockerhub', 'Explore', 'Repositories' (which is underlined), 'Organizations', and 'Usage'. A search bar says 'Search Docker Hub'. Underneath, a dropdown shows 'lasinkarsukrutha31'. To its right is a search field 'Search by repository name', a dropdown for 'All Content', and a blue button 'Create repository'. The main content area shows a repository card for 'lasinkarsukrutha31 / eventreg'. It indicates 'Contains: Image' and 'Last pushed: 4 minutes ago'. Below the card are statistics: 0 stars, 0 forks, a public icon, and a 'Scout inactive' icon. A message at the bottom of the card says 'What's next: View a summary of image vulnerabilities and recommendations → docker scout quickview lasinkarsukrutha31/eventreg:latest'.

```
PS D:\DEVOPS LAB\Exp 8&9> docker pull lasinkarsukrutha31/eventreg:latest
latest: Pulling from lasinkarsukrutha31/eventreg
Digest: sha256:437d7e7a98a39f5be28703b52c25cdc70173dbe1fe2bfc033029d62272ce8f5c
Status: Image is up to date for lasinkarsukrutha31/eventreg:latest
docker.io/lasinkarsukrutha31/eventreg:latest
```

What's next:
View a summary of image vulnerabilities and recommendations → [docker scout quickview lasinkarsukrutha31/eventreg:latest](#)

```
PS D:\DEVOPS LAB\Exp 8&9> kubectl apply -f deployment.yaml
deployment.apps/eventregistration configured
PS D:\DEVOPS LAB\Exp 8&9> kubectl apply -f service.yaml
service/eventregistrationsvcsvc configured
PS D:\DEVOPS LAB\Exp 8&9> kubectl get svc eventregistrationsvcsvc
NAME           TYPE      CLUSTER-IP   EXTERNAL-IP   PORT(S)        AGE
eventregistrationsvcsvc   NodePort   10.101.125.143 <none>        8090:32163/TCP   35m
```

The screenshot shows a web browser window titled 'Welcome to nginx!'. The address bar says 'localhost:32163'. The page content is: 'Welcome to nginx!' followed by 'If you see this page, the nginx web server is successfully installed and working. Further configuration is required.' and 'For online documentation and support please refer to [nginx.org](#). Commercial support is available at [nginx.com](#)'. Below that is the text 'Thank you for using nginx.'

Event Registration Form

localhost:32163/eventRegistrationForm.html

Event Registration

First Name

Last Name

Email

Phone Number

Experiment 10: Install and Explore Selenium for Automated Testing.

Install NetBeans IDE 21 and JDK 17

Install Jar Files From The Selenium Downloads

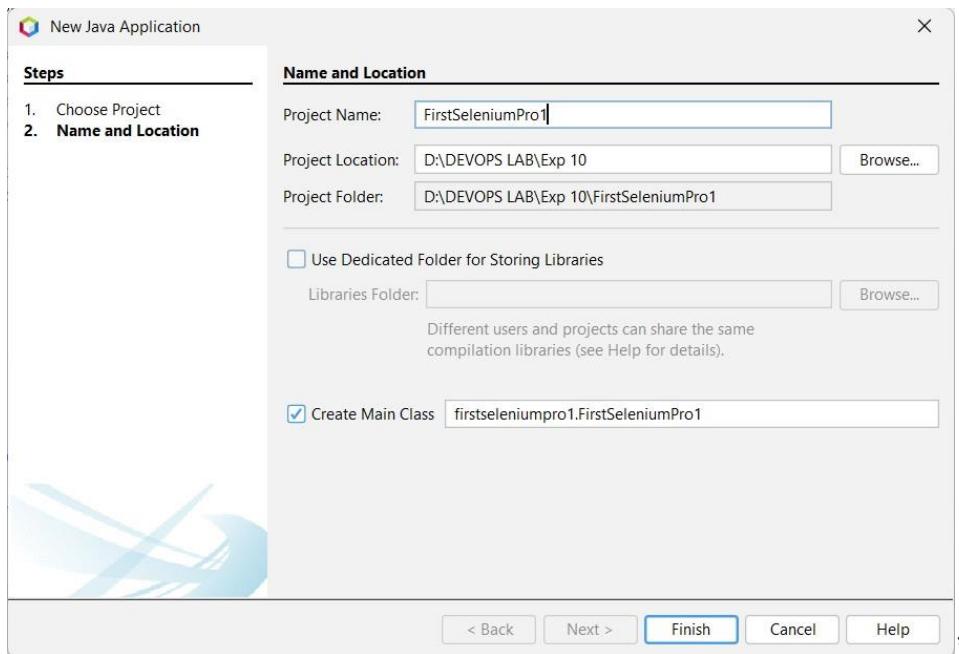
The screenshot shows the Selenium project's "Language Bindings" page. It features three main sections for .NET, Ruby, and Java. Each section includes a logo, the language name, the stable version (4.25.0 from September 20, 2024), a changelog link, and an API Docs link. The .NET section also includes ".NET/C#" text.

| Language | Stable Version | Changelog | API Docs |
|----------|-----------------------------|---------------------------|--------------------------|
| .NET | 4.25.0 (September 20, 2024) | Changelog | API Docs |
| Ruby | 4.25.0 (September 20, 2024) | Changelog | API Docs |
| Java | 4.25.0 (September 20, 2024) | Changelog | API Docs |

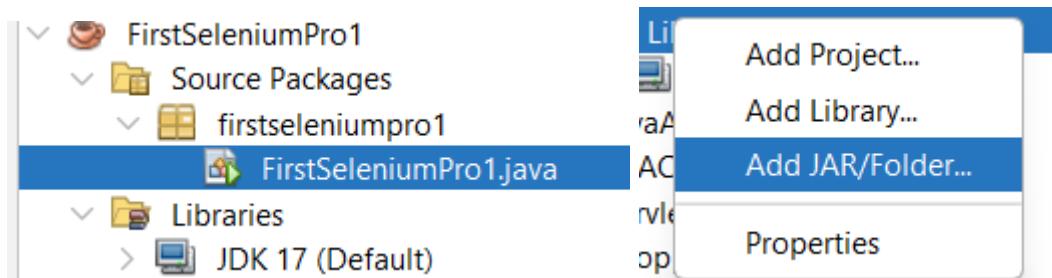
Unzip Into Your Working Directory

Open NetBeans Go to the File>New Project

The screenshot shows the NetBeans "New Project" dialog. On the left, under "Steps", the first step "Choose Project" is selected. In the main area, the "Choose Project" tab is active. A "Filter" input field is present. The "Categories" sidebar lists Java-related options like Java with Maven, Java with Gradle, and Java with Ant. The "Projects" list on the right shows several Java project types, with "Java Application" highlighted. A "Description" box provides details about creating a Java SE application. At the bottom, there are "Next >" and "Cancel" buttons.

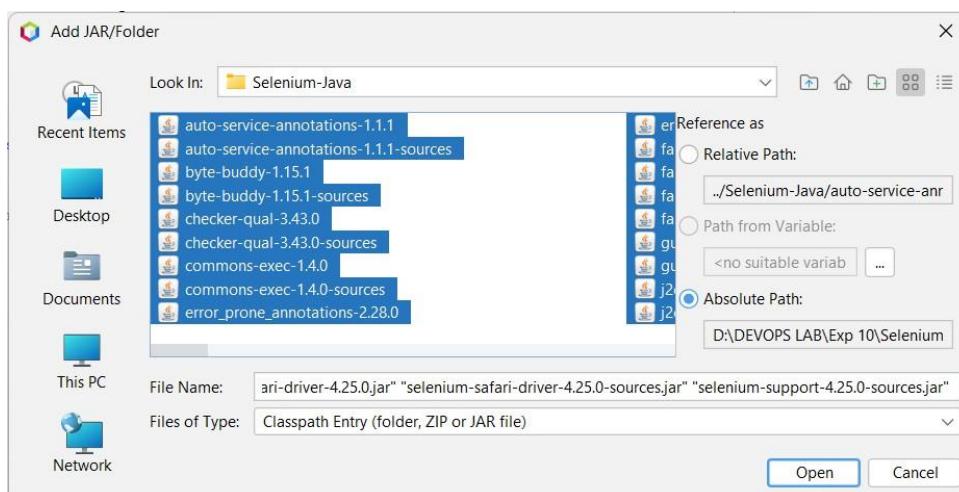


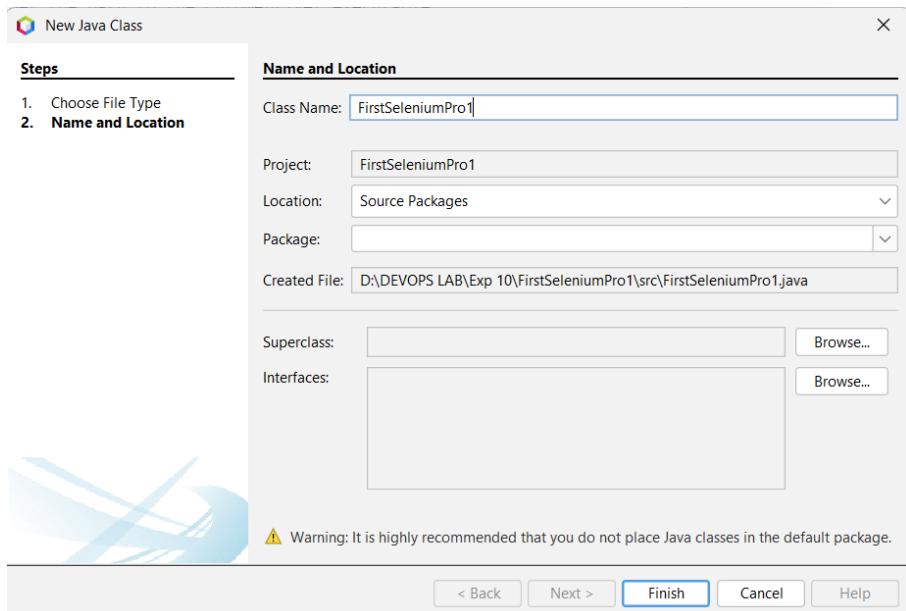
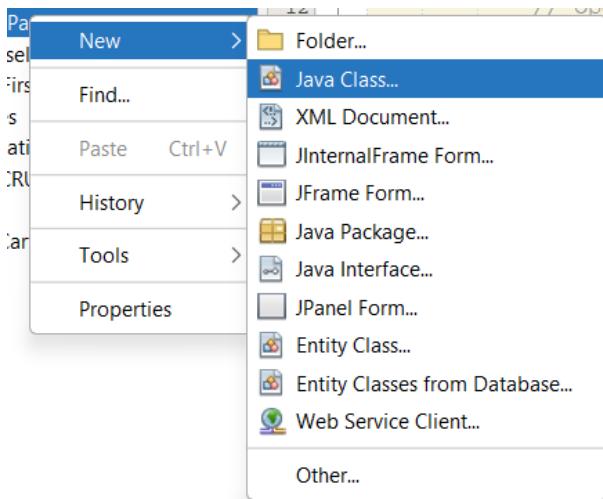
Give The File Name & Click On Finish.



Right Click on the Libraries And Click on Add JAR/Folder

Add all the Jar Files Of Selenium By Pressing CTRL+A





FirstSeleniumPro1.java

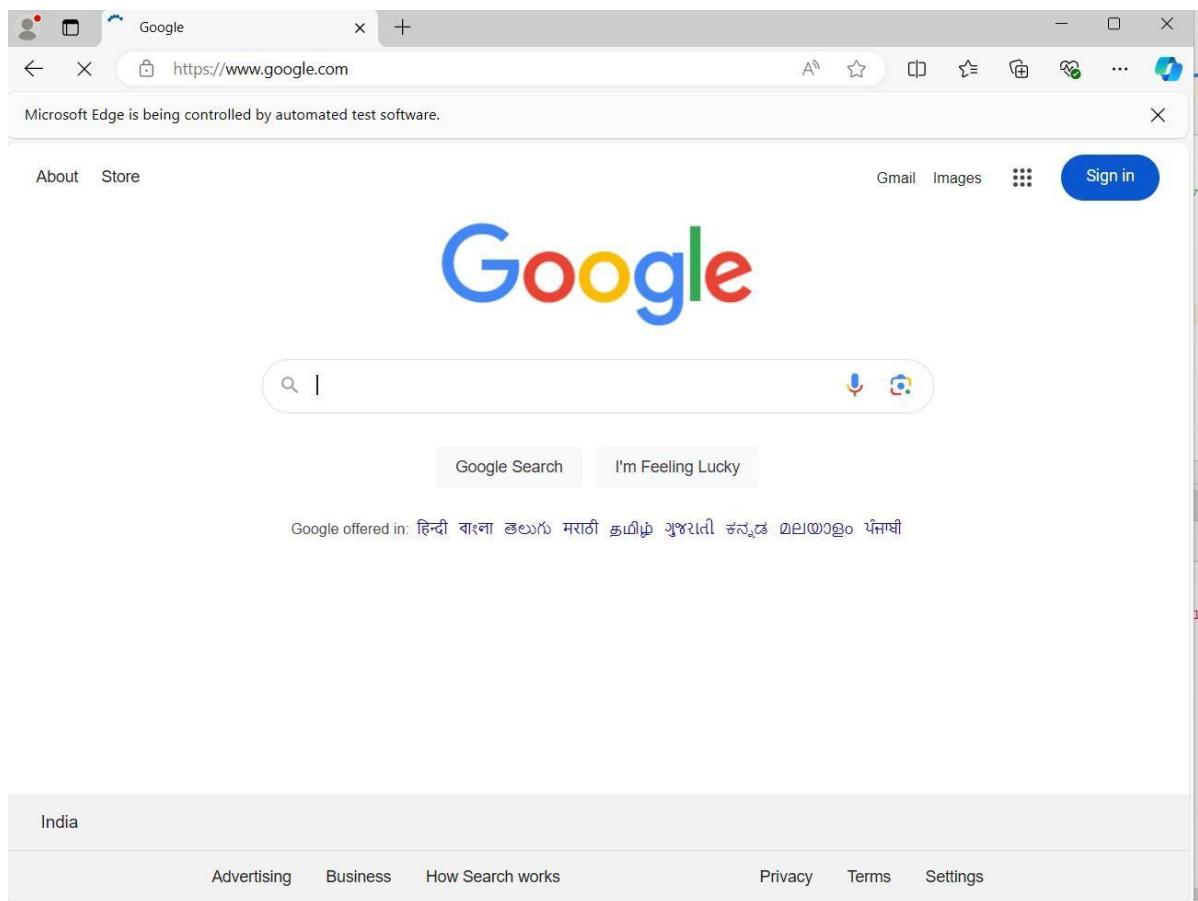
```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

public class FirstSeleniumPro {
    public static void main(String[] args) {
        // Set the path to the ChromeDriver executable
        // System.setProperty("webdriver.chrome.driver",
        // "D:\\DEVOPS LAB\\WebDrivers\\msgedgedriver.exe");
        // Initialize ChromeDriver
        WebDriver driver = new EdgeDriver();

        try {
            // Open a website
            driver.get("https://www.google.com");

            // Print the title of the page
            System.out.println("Title: " + driver.getTitle());

            // Wait for 60 seconds
            Thread.sleep(60000);
        } catch (Exception e) {
            System.out.println("Error: " + e.getMessage());
        } finally {
            // Close the browser
            driver.quit();
        }
    }
}
```

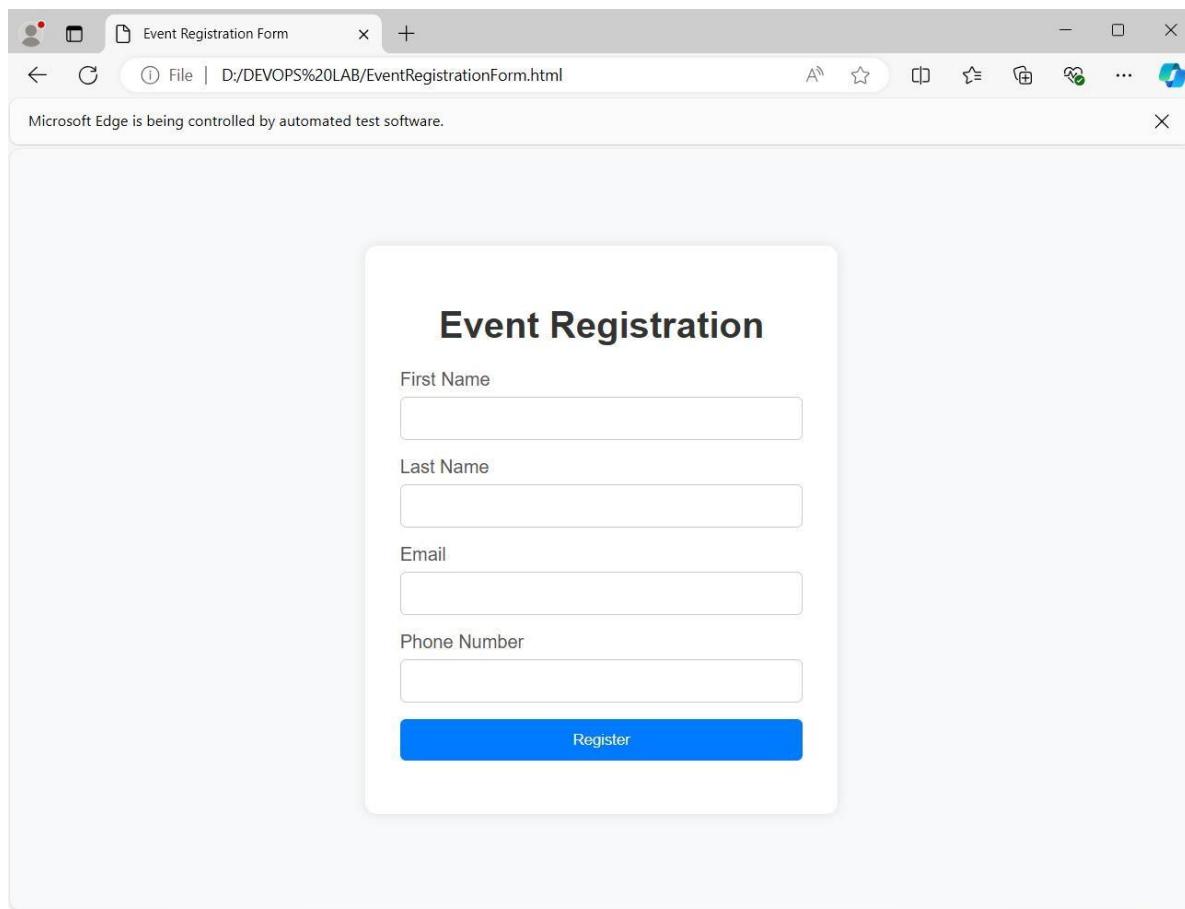


```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

public class FirstSeleniumPro1 {
    public static void main(String[] args) {
        // Set the path to the ChromeDriver executable
        //System.setProperty("webdriver.chrome.driver",
        //                    "D:\\DEVOPS LAB\\WebDrivers\\msgedgedriver.exe");
        // Initialize ChromeDriver
        WebDriver driver = new EdgeDriver();

        try {
            // Open a website
            driver.get("D:\\DEVOPS LAB\\EventRegistrationForm.html");
        }
    }
}
```

```
// Print the title of the page  
System.out.println("Title: " + driver.getTitle());  
  
// Wait for 60 seconds  
Thread.sleep(60000);  
} catch (Exception e) {  
    System.out.println("Error: " + e.getMessage());  
} finally {  
    // Close the browser  
    driver.quit();  
}  
}  
}
```



EXPERIMENT 11: Write a simple program in JavaScript and perform testing using Selenium

JavaScriptCalculator.html

```
<!DOCTYPE html>
<html>
<head>
<title>Simple Calculator</title>
<style>
body {
    font-family: Arial, sans-serif;
    background-color: #f4f4f4;
    display: flex;
    justify-content: center;
    align-items: center;
    height: 100vh;
    margin: 0;
}

.calculator {
    background-color: #fff;
    padding: 20px;
    border-radius: 10px;
    box-shadow: 0 0 10px rgba(0, 0, 0, 0.1);
}

.calculator input[type="text"] {
    width: 100%;
    height: 50px;
    font-size: 1.2em;
    text-align: right;
    margin-bottom: 10px;
    border: none;
}
```

```
border-radius: 5px;
box-shadow: inset 0 0 5px rgba(0, 0, 0, 0.1);
padding-right: 10px;
}

.calculator button {
    width: 22%;
    height: 50px;
    font-size: 1.2em;
    margin: 2px;
    border: none;
    border-radius: 5px;
    background-color: #f2f2f2;
    cursor: pointer;
    transition: background-color 0.2s;
}

.calculator button:hover {
    background-color: #ddd;
}

.calculator button.operator {
    background-color: #d4edda;
}

.calculator button.operator:hover {
    background-color: #c3e6cb;
}

.calculator button.equals {
    background-color: #76c7c0;
    width: 48%;
    color: #fff;
}

.calculator button.equals:hover {
```

```
        background-color: #63b0b8;
    }

.calculator button.zero {
    width: 48%;
}

</style>
</head>
<body>
<div class="calculator">
    <input type="text" id="display" readonly>
    <br>
    <button onclick="clearDisplay()">C</button>
    <button onclick="deleteLast()"><--</button>
    <button class="operator" onclick="appendToDisplay('/')">/</button>
    <button class="operator" onclick="appendToDisplay('*')">*</button>
    <br>
    <button onclick="appendToDisplay('7')">7</button>
    <button onclick="appendToDisplay('8')">8</button>
    <button onclick="appendToDisplay('9')">9</button>
    <button class="operator" onclick="appendToDisplay('-')">-</button>
    <br>
    <button onclick="appendToDisplay('4')">4</button>
    <button onclick="appendToDisplay('5')">5</button>
    <button onclick="appendToDisplay('6')">6</button>
    <button class="operator" onclick="appendToDisplay('+')">+</button>
    <br>
    <button onclick="appendToDisplay('1')">1</button>
    <button onclick="appendToDisplay('2')">2</button>
    <button onclick="appendToDisplay('3')">3</button>
    <button class="equals" onclick="calculateResult()">=</button>
```

```
<br>
<button class="zero" onclick="appendToDisplay('0')">0</button>
<button onclick="appendToDisplay('.')">.</button>
</div>

<script>
function clearDisplay() {
    document.getElementById('display').value = "";
}

function deleteLast() {
    var display = document.getElementById('display').value;
    document.getElementById('display').value = display.substring(0, display.length - 1);
}

function appendToDisplay(value) {
    document.getElementById('display').value += value;
}

function calculateResult() {
    var display = document.getElementById('display').value;
    try {
        document.getElementById('display').value = eval(display);
    } catch (e) {
        document.getElementById('display').value = 'Error';
    }
}

</script>
</body>
</html>
```

Java Code

```
import org.openqa.selenium.WebDriver;
import org.openqa.selenium.edge.EdgeDriver;

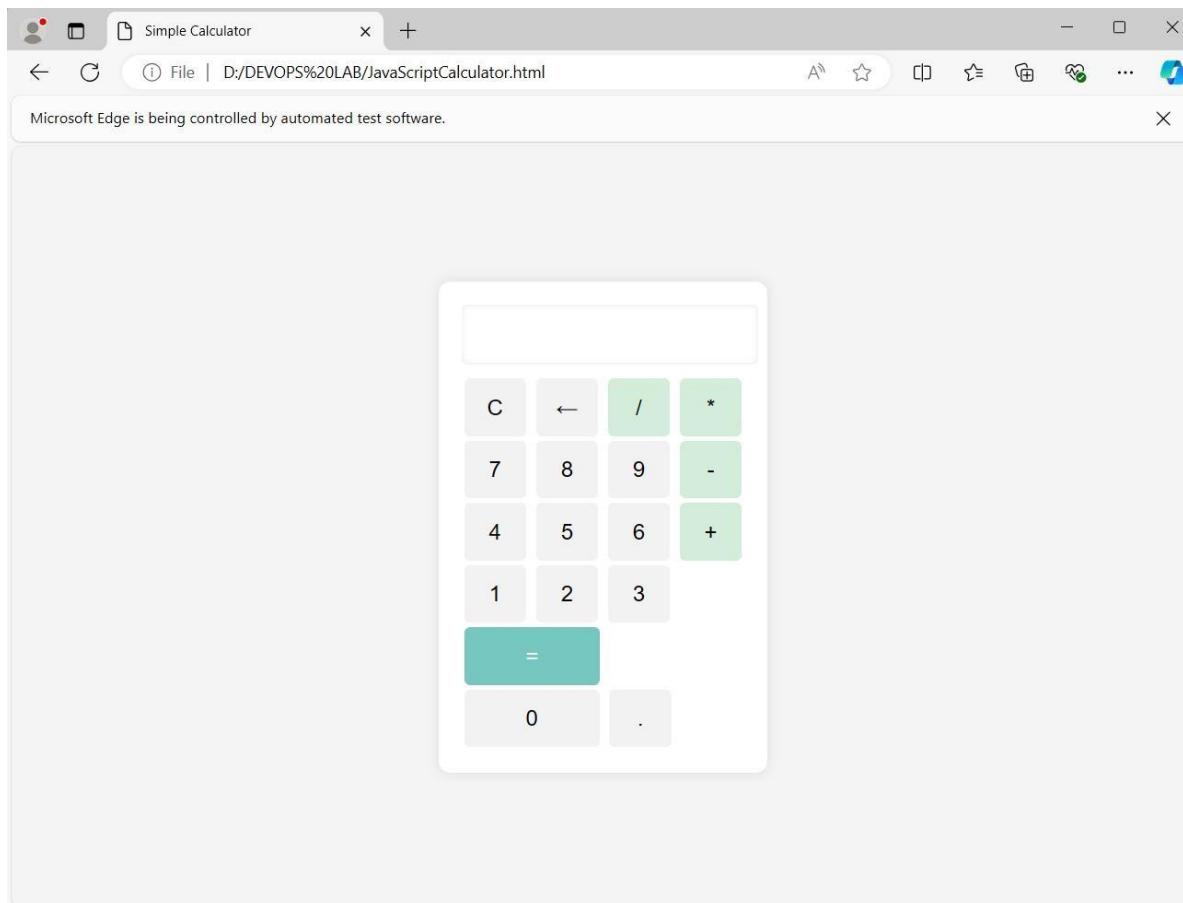
public class FirstSeleniumPro {
    public static void main(String[] args) {
        // Set the path to the ChromeDriver executable
        //System.setProperty("webdriver.chrome.driver", "D:\\DEVOPS
LAB\\WebDrivers\\msgedgedriver.exe");

        // Initialize ChromeDriver
        WebDriver driver = new EdgeDriver();

        try {
            // Open a website
            driver.get("D:\\DEVOPS LAB\\JavaScriptCalculator.html");

            // Print the title of the page
            System.out.println("Title: " + driver.getTitle());

            // Wait for 60 seconds
            Thread.sleep(60000);
        } catch (Exception e) {
            System.out.println("Error: " + e.getMessage());
        } finally {
            // Close the browser
            driver.quit();
        }
    }
}
```



12. Develop test cases for the above containerized application using Selenium.

```
PS C:\Users\Sukrutha.user> pip install selenium
```

After pull command you need to run

Pull cmd->**docker pull selenium/standalone-chrome**

```
PS C:\Users\Sukrutha.user> docker run -d -p 4444:4444 selenium/standalone-chrome
31510bd0a4af545987d4c4d5678e27bac996d88fcdeb5d33e935bf2ed3702606
```

| Windows PowerShell | | | | | |
|--------------------|----------------------------|------------------------------------|----------------|---------------|----------------------------------|
| CONTAINER ID | IMAGE | COMMAND | CREATED | STATUS | PORTS |
| 31510bd0a4af | selenium/standalone-chrome | "/opt/bin/entry_poin..." | 2 minutes ago | Up 2 minutes | 0.0.0.0:4444->4444/tcp, 5900/tcp |
| 636e72327f36 | my-web-app | funny_bell "/docker-entrypoint..." | 11 minutes ago | Up 11 minutes | 8082/tcp, 0.0.0.0:8082->80/tcp |
| | | my-web-app-container | | | |

In the above **my-web-app** is created using the Following commands:

Dockerfile

```
# Use a base image with a web server (e.g., Nginx) to serve your application
FROM nginx:alpine

# Copy your application files (HTML, CSS, JS) to the appropriate directory in the container
COPY . /usr/share/nginx/html

# Expose port 8082 to access the web app
EXPOSE 8082

# Default command to run when the container starts
CMD ["nginx", "-g", "daemon off;"]
```

In Windows PowerShell Execute The Below Commands:

```
docker build -t my-web-app .
```

```
docker run -p 8082:80 my-web-app
```

Using the Below Command Find Your IP ADDRESS

```
PS D:\DEVOPS LAB\Exp 12> ipconfig
```

Wireless LAN adapter Wi-Fi:

IPv4 Address.

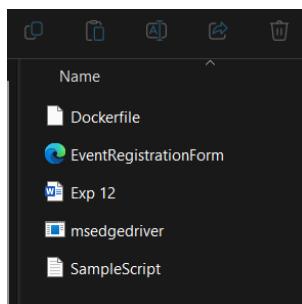
Check Whether Your Selenium Grid Is Working Correctly Or Not

<https://localhost:4444/ui/>

Download msedgedriver.exe Make Sure That Your Version Should Match Through Microsoft Edge Setting You can Know Your Version And Download Form The Below Link

[Microsoft Edge WebDriver | Microsoft Edge Developer](#)

Your Working Directory Should Be As Given Below:



SampleScript2.py

```
import time

from selenium import webdriver
from selenium.webdriver.edge.service import Service
from selenium.webdriver.common.by import By
from selenium.webdriver.support.ui import WebDriverWait
from selenium.webdriver.support import expected_conditions as EC

print("Test Execution Started")

# Set Edge options
options = webdriver.EdgeOptions()
options.add_argument('--ignore-ssl-errors=yes')
options.add_argument('--ignore-certificate-errors')
options.add_argument('--no-sandbox')
options.add_argument('--disable-dev-shm-usage')
```

```
options.add_argument('--start-maximized') # Start with a maximized window
# Remove the headless option if it is set.

# options.add_argument('--headless') # This line should be commented out or removed.

# Provide the path to msedgedriver.exe (since it's in the same directory as the script)
driver_path = "D:\\DEVOPS LAB\\Exp 12\\msedgedriver.exe" # Update the path if necessary

# Initialize Edge WebDriver using the path to the driver
driver = webdriver.Edge(service=Service(driver_path), options=options)

# Maximize the browser window
driver.maximize_window()

# Navigate to the registration page served by the Docker container
driver.get("http://localhost:8082/EventRegistrationForm.html") # Correct IP
print("Navigating to the form...")

# Wait for the form to load (change the ID as per your page structure)
WebDriverWait(driver, 10).until(EC.presence_of_element_located((By.ID, "firstName")))

# Fill the registration form using correct element IDs
driver.find_element(By.ID, "firstName").send_keys("testuser")
time.sleep(1) # Introduce a 1-second delay to visually observe the filling of the field
driver.find_element(By.ID, "lastName").send_keys("Test")
time.sleep(1) # Introduce a 1-second delay
driver.find_element(By.ID, "email").send_keys("testuser@example.com")
time.sleep(1) # Introduce a 1-second delay
driver.find_element(By.ID, "phNo").send_keys("1234567890")
time.sleep(1) # Introduce a 1-second delay

# Submit the form
```

```

driver.find_element(By.XPATH, "//button[@type='submit']").click()

# Wait for confirmation message to appear
WebDriverWait(driver, 10).until(EC.text_to_be_present_in_element((By.TAG_NAME, "body"), "Thank You For Registering :"))

# Check if registration was successful
confirmation_message = driver.page_source
if "Thank You For Registering :" in confirmation_message:
    print("Test Passed!")
else:
    print("Test Failed!")

# Close the browser and quit the session
driver.close()
driver.quit()

print("Test Execution Completed Successfully!")

```

```

PS D:\DEVOPS LAB\Exp 12> python SampleScript2.py
Test Execution Started

DevTools listening on ws://127.0.0.1:60143/devtools/browser/bbd3344f-0c16-4c7e-8e67-67adbeaefc4d
[4576:13344:1120/111654.952:ERROR:edge_auth_errors.cc(523)] EDGE_IDENTITY: Get Default OS Account failed: Error: Primary Error: kImplicitSignInFailure, Second : 0, Error string:

Navigating to the form...
Test Passed!
Test Execution Completed Successfully!

```