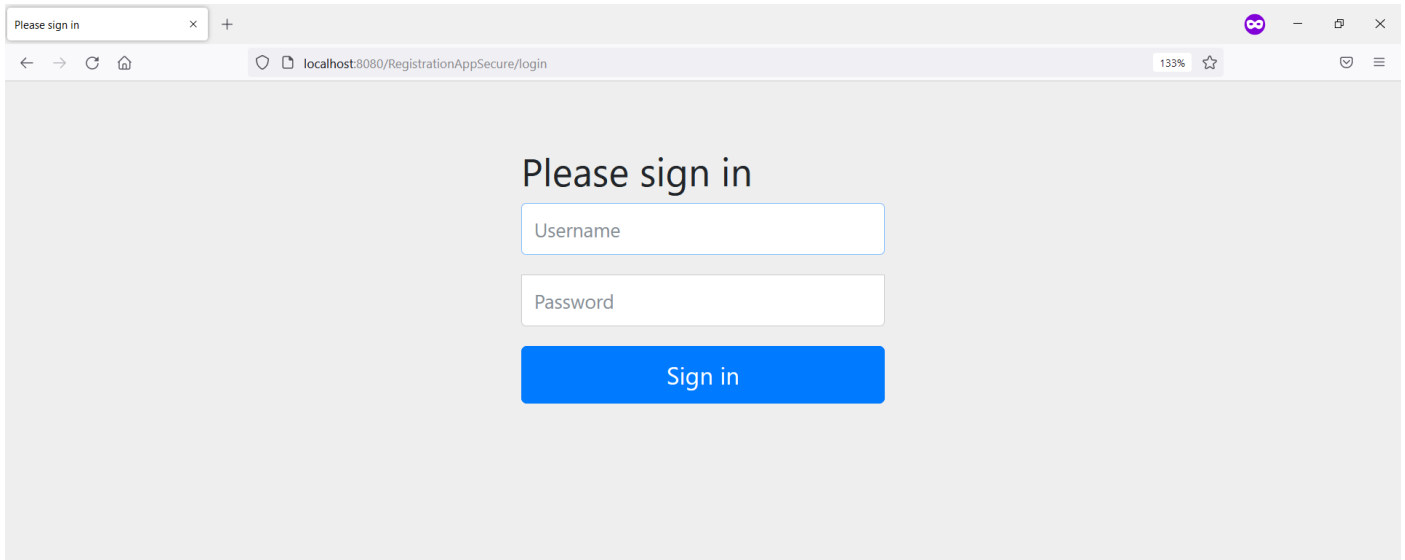


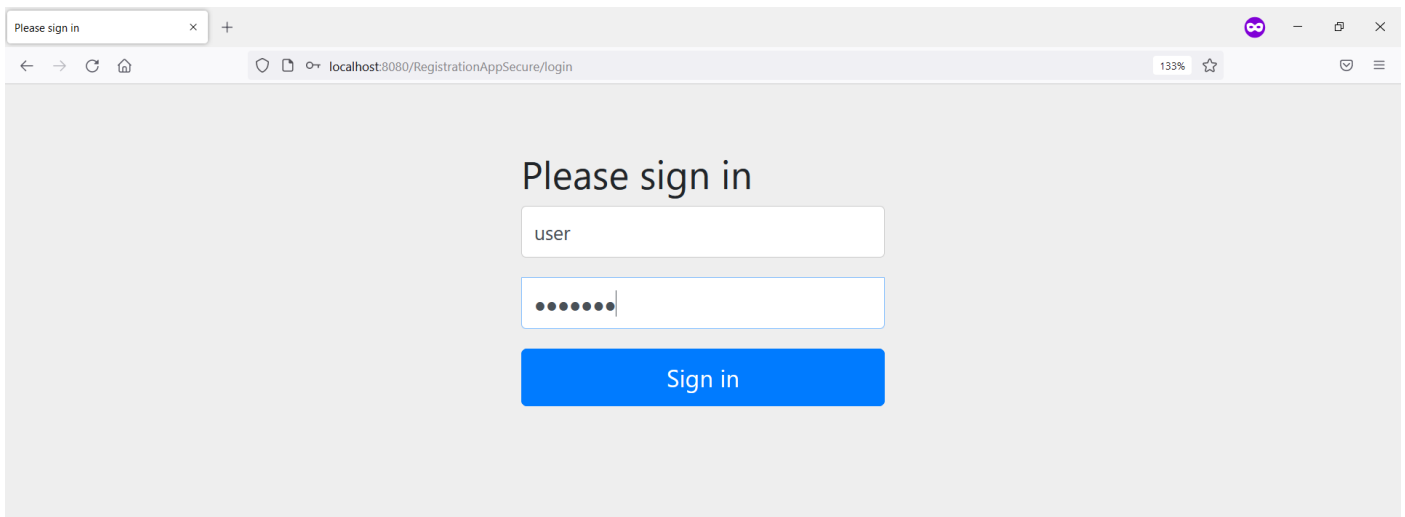
Screenshots of the web application:

Registration Application with Security

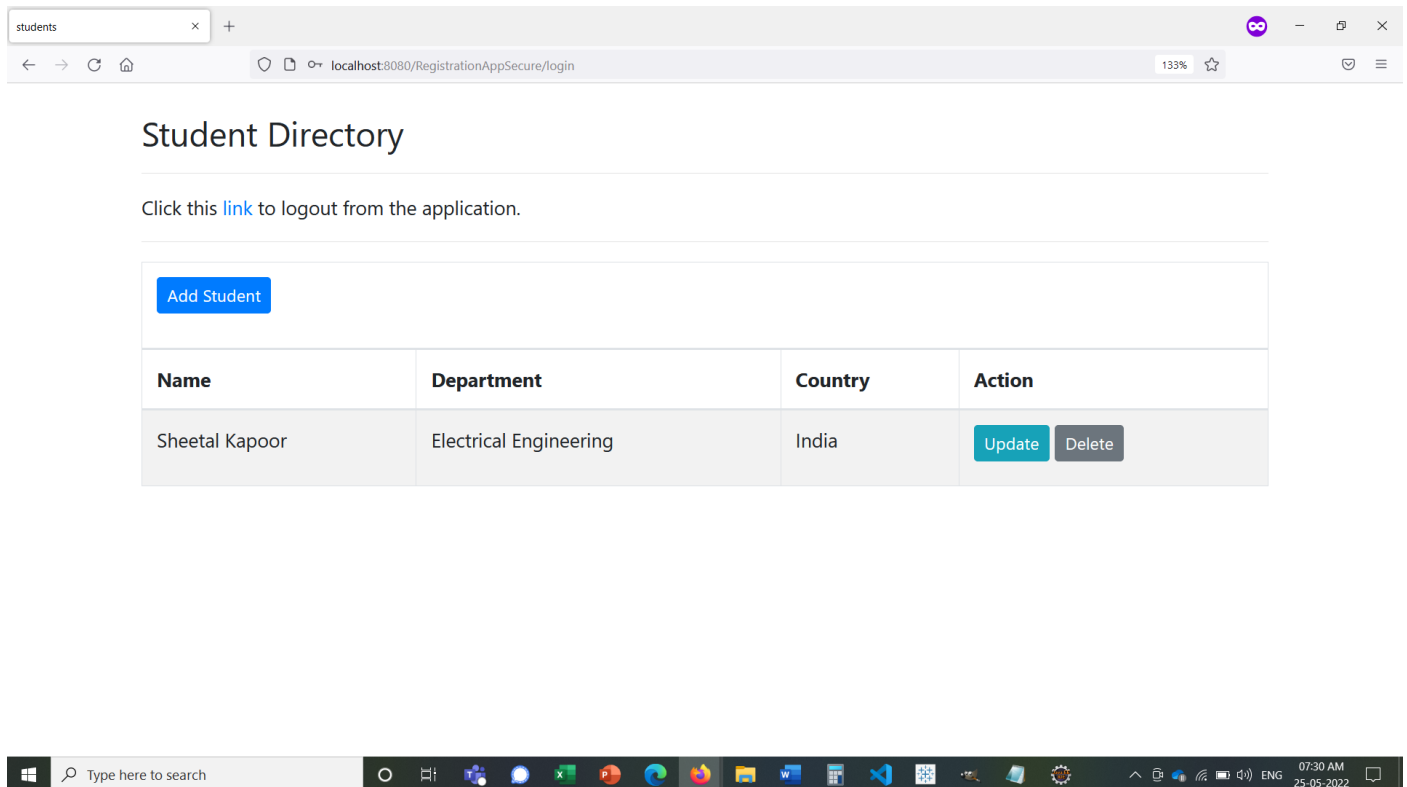
A) Home page



B) Login as USER and perform CRUD operations



B.1) Students Directory visible to USER (Read Operation allowed)



students

localhost:8080/RegistrationAppSecure/login

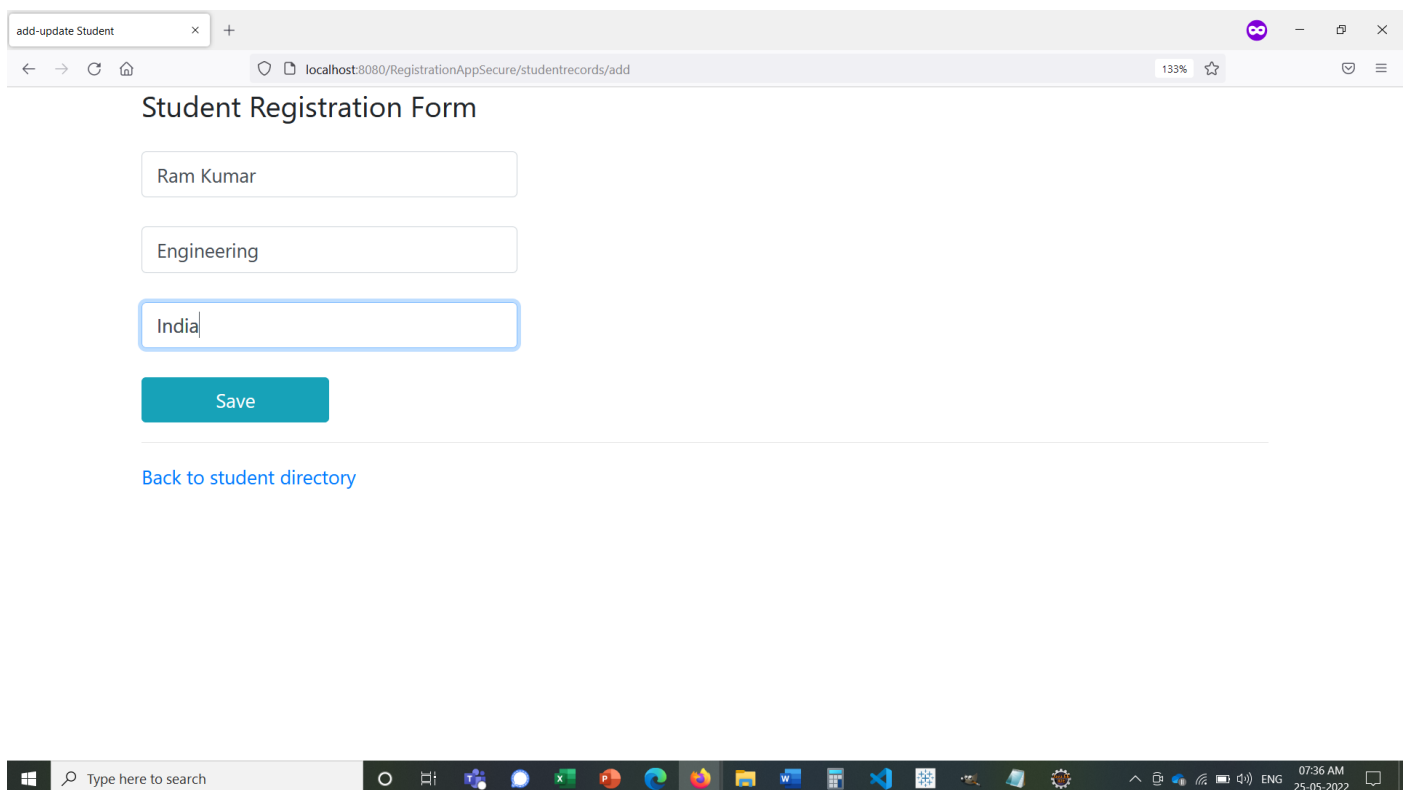
Student Directory

Click this [link](#) to logout from the application.

[Add Student](#)

Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	Update Delete

B.2) Add a new student record (Create Operation allowed)



add-update Student

localhost:8080/RegistrationAppSecure/studentrecords/add

Student Registration Form

Ram Kumar

Engineering

India

[Save](#)

[Back to student directory](#)



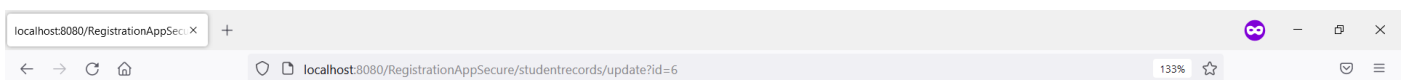
Student Directory

Click this [link](#) to logout from the application.

Add Student			
Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	Update Delete
Ram Kumar	Engineering	India	Update Delete



B.3) Update the record “Ram Kumar” (From Engineering -> Civil Engineering)
(Update operation not allowed)



HTTP Status 403 - Access is denied

Hi user, you do not have permission to access this page!

Click this [link](#) to return to students directory.

Click this [link](#) to logout from the application.



B.4) Go back to home screen and delete “Ram Kumar” record.
(Delete Operation not allowed)

students

localhost:8080/RegistrationAppSecure/studentrecords/list

Student Directory

Click this [link](#) to logout from the application.

[Add Student](#)

Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	Update Delete
Ram Kumar	Engineering	India	Update Delete

Type here to search

localhost:8080/RegistrationAppSecure/delete?id=6

HTTP Status 403 - Access is denied

Hi user, you do not have permission to access this page!

Click this [link](#) to return to students directory.

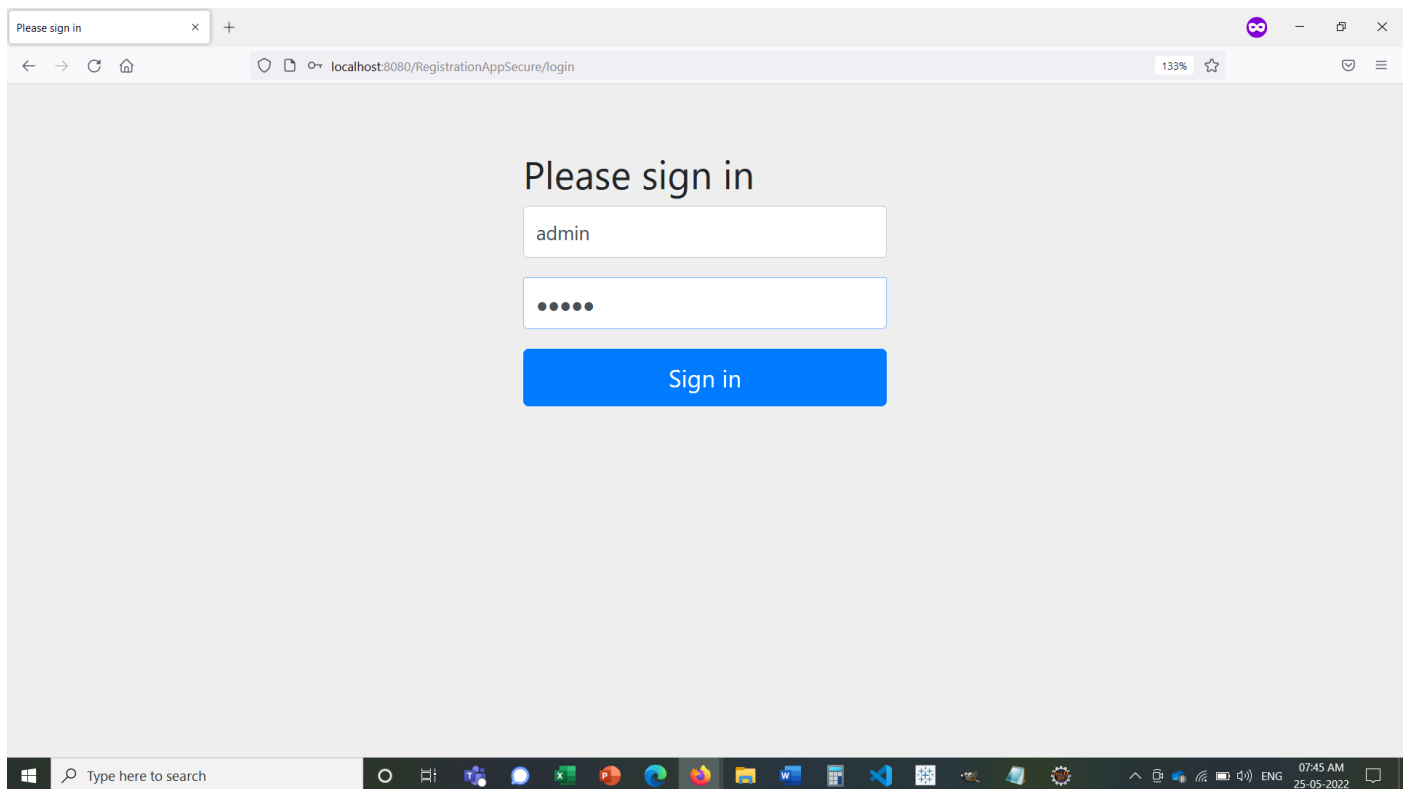
Click this [link](#) to logout from the application.

Type here to search

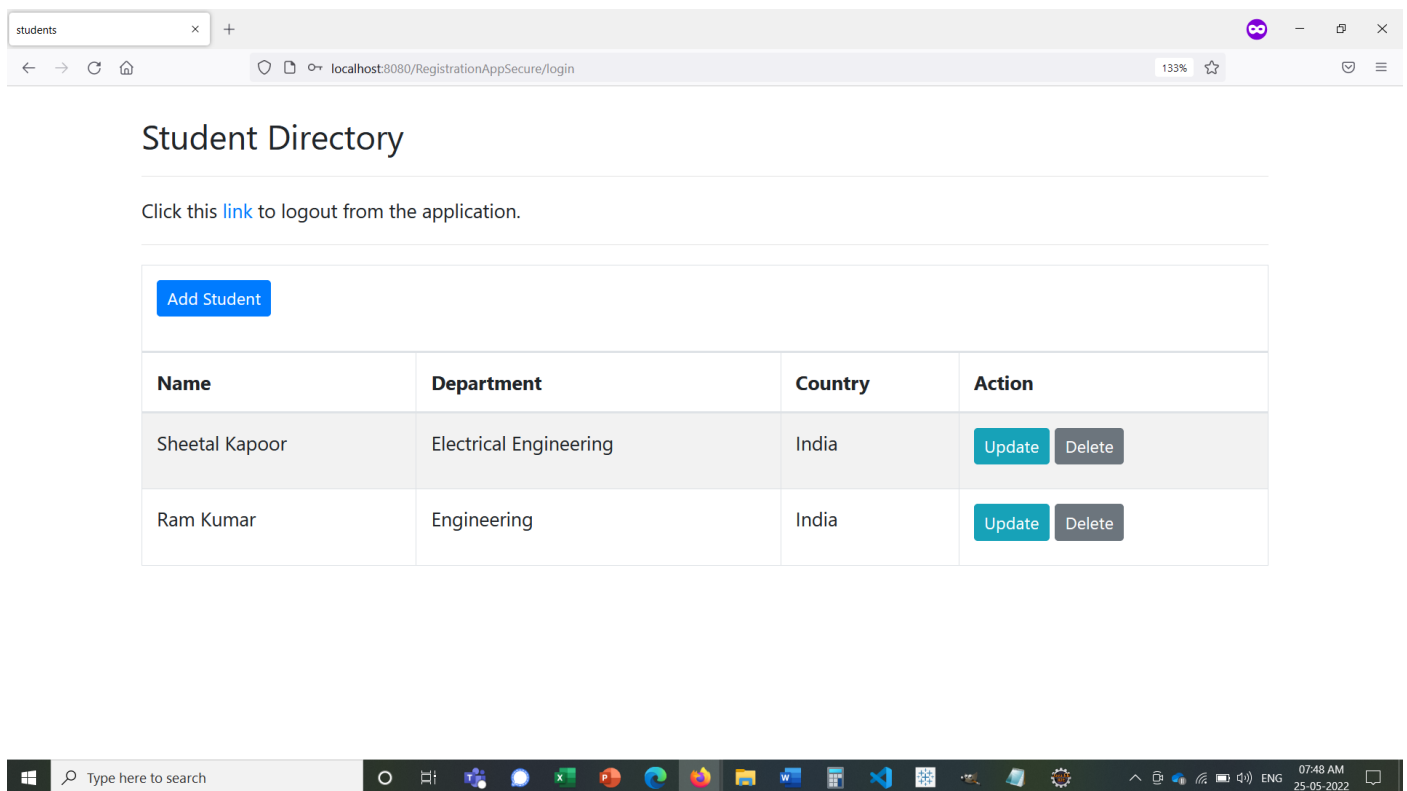
localhost:8080/RegistrationAppSecure/delete?id=6

HTTP Status 403 - Access is denied

C) Logout and then login as ADMIN and perform CRUD operations



C.1) Student Directory visible to ADMIN (Read Operation Allowed)



C.2) Add a new student record (Add Operation Allowed)

add-update Student

localhost:8080/RegistrationAppSecure/studentrecords/add

133%

Student Registration Form

Save

[Back to student directory](#)



students

localhost:8080/RegistrationAppSecure/studentrecords/list

133%

Student Directory

Click this [link](#) to logout from the application.

<div>Add Student</div>			
Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	<div>UpdateDelete</div>
Ram Kumar	Engineering	India	<div>UpdateDelete</div>
Harish Singh	Geology	Germany	<div>UpdateDelete</div>



C.3) Update the record “Ram Kumar” (From Engineering -> Civil Engineering)

(Update operation allowed)

add-update Student

localhost:8080/RegistrationAppSecure/studentrecords/update?id=6

Student Registration Form

Ram Kumar

Civil Engineering

India

Save

[Back to student directory](#)



students

localhost:8080/RegistrationAppSecure/studentrecords/list

Student Directory

Click this [link](#) to logout from the application.

Add Student

Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	Update Delete
Ram Kumar	Civil Engineering	India	Update Delete
Harish Singh	Geology	Germany	Update Delete



C.4) Delete the record “Harish Singh”. (Delete Operation Allowed)



Student Directory

Click this [link](#) to logout from the application.

Add Student			
Name	Department	Country	Action
Sheetal Kapoor	Electrical Engineering	India	Update Delete
Ram Kumar	Civil Engineering	India	Update Delete

