Graphical Representation Of Stack Operations

Team project members:

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Narayana .P	-	PES1PG21CA048
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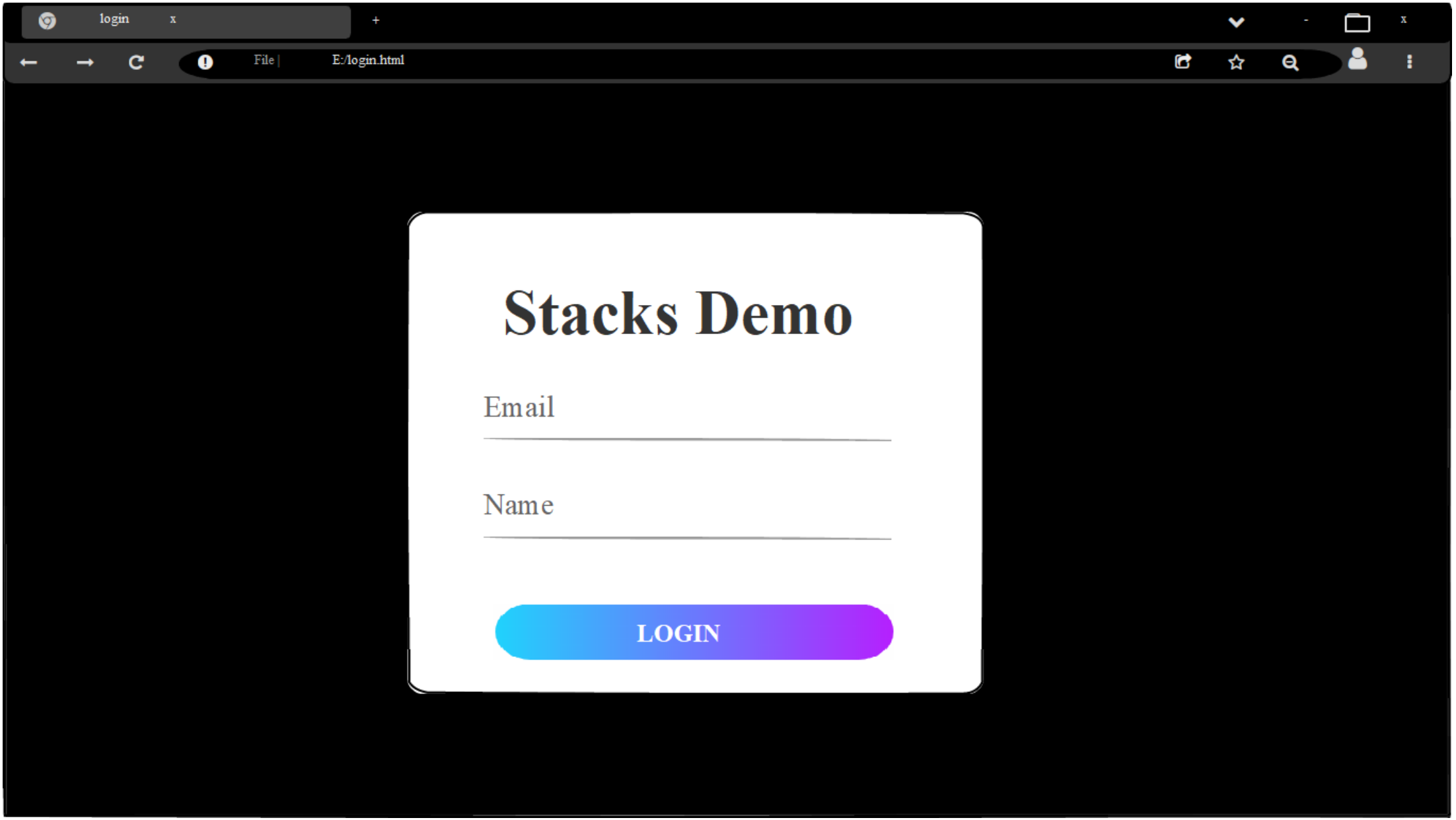
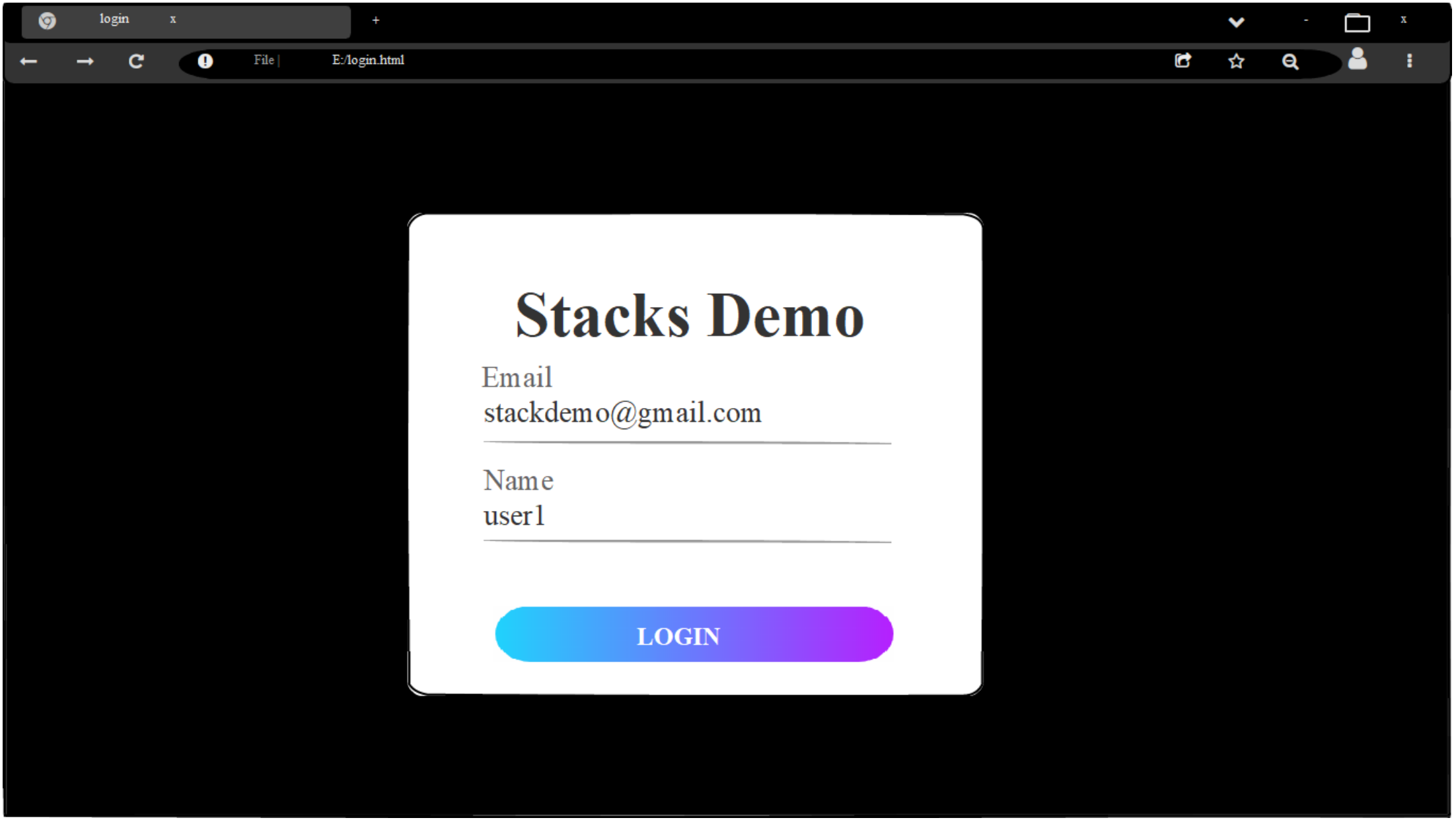
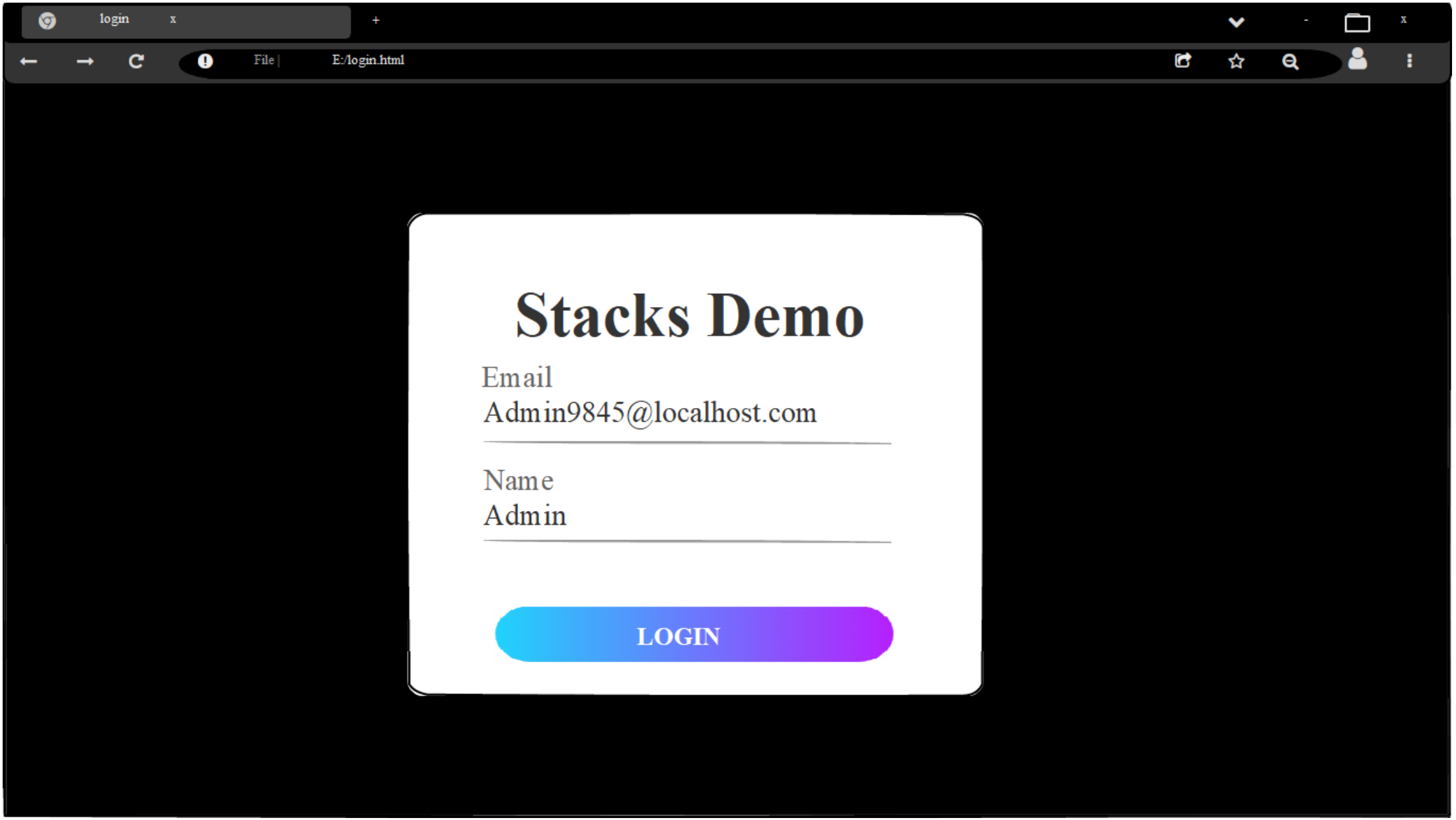
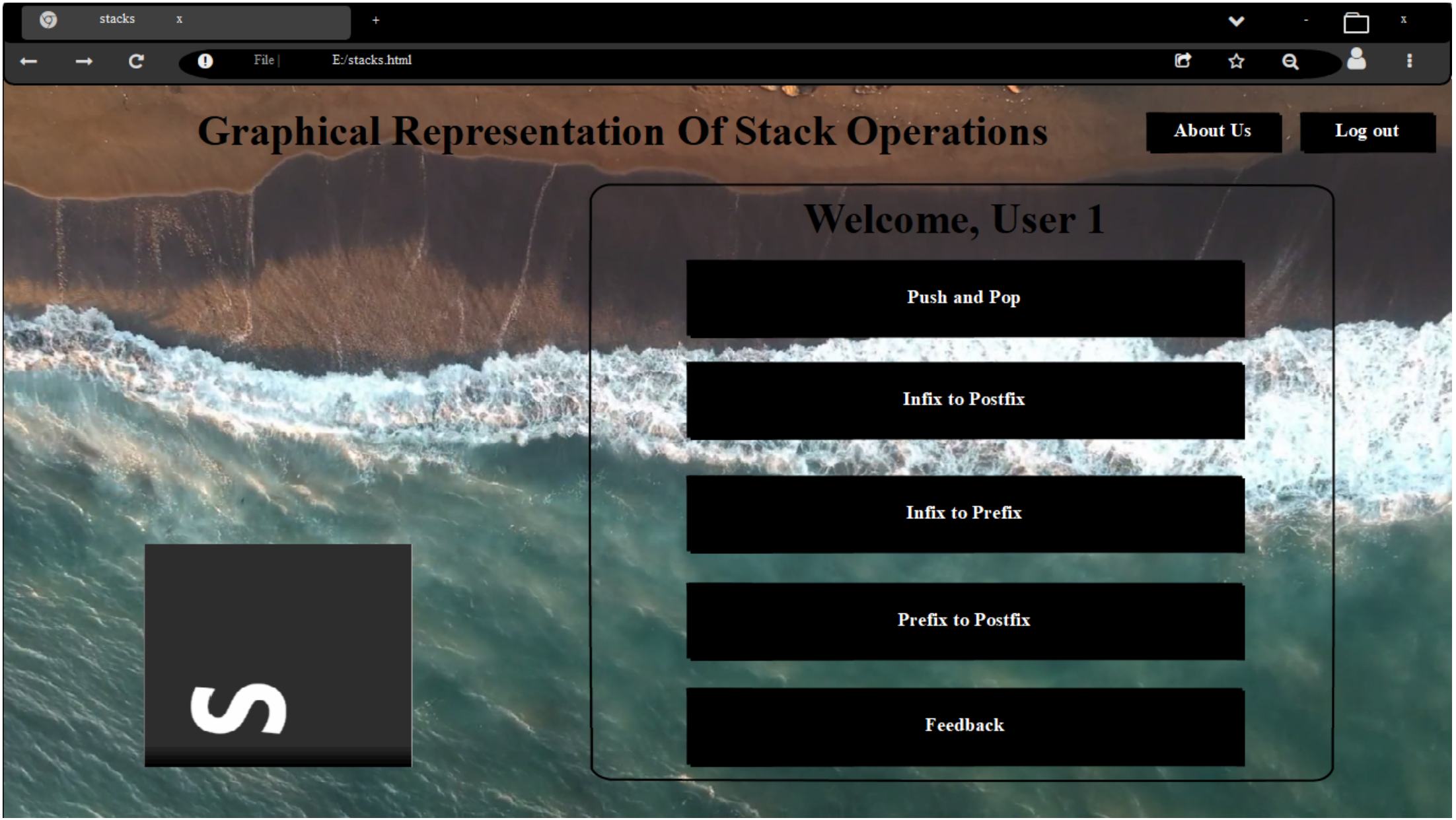
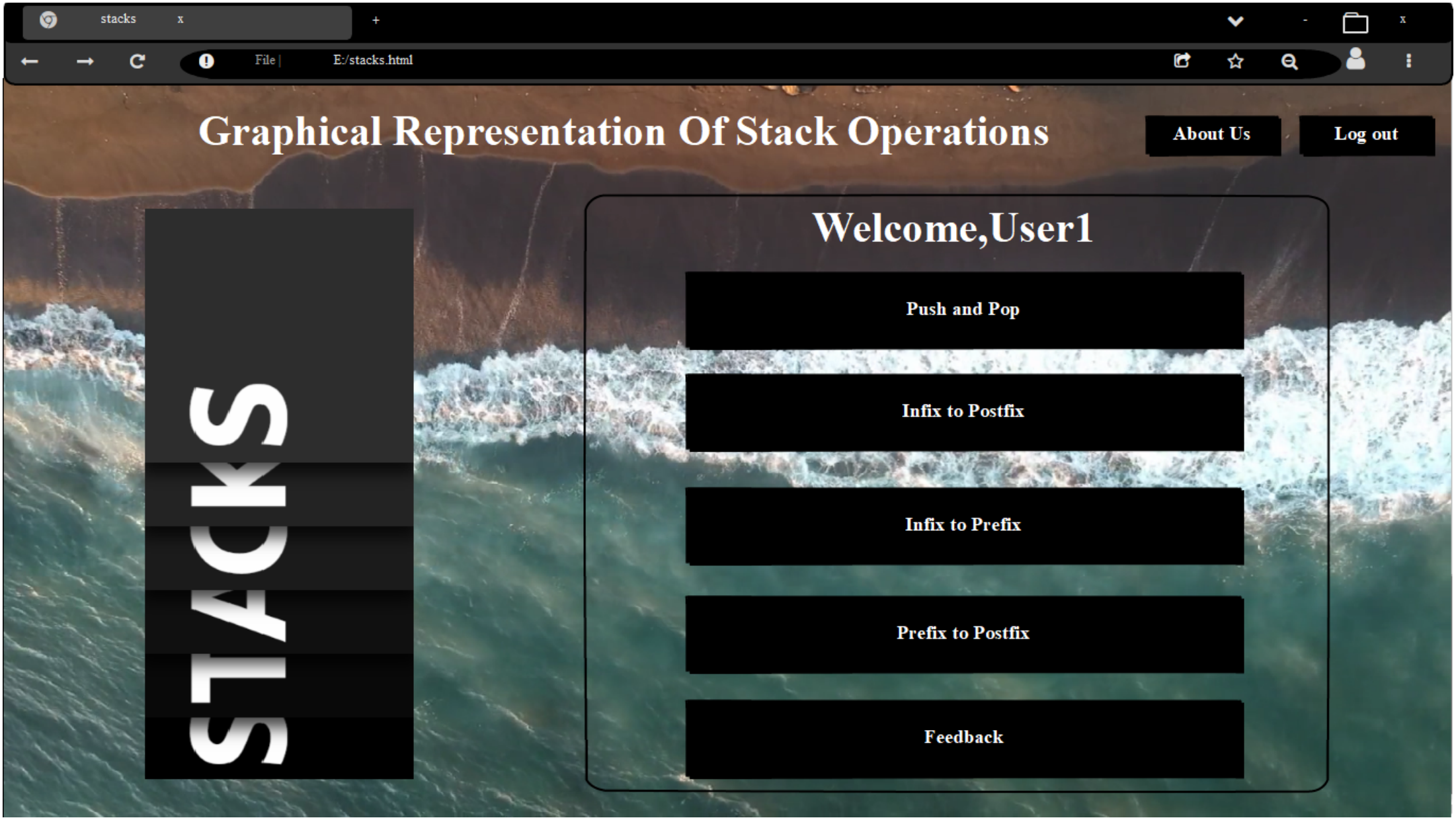

login
x
+
File |
E:/login.html
Stacks Demo
Email
Name
LOGIN


login
x
+
File |
E:/login.html
Stacks Demo
Email
stackdemo@gmail.com
Name
user1
LOGIN


login
x
+
File |
E:/login.html
Stacks Demo
Email
Admin9845@localhost.com
Name
Admin
LOGIN


stacks
x
+
File | E:/stacks.html
Graphical Representation Of Stack Operations
About Us
Log out
Welcome, User 1
Push and Pop
Infix to Postfix
Infix to Prefix
Prefix to Postfix
Feedback


stacks
x
+
File | E:/stacks.html
Graphical Representation Of Stack Operations
About Us
Log out
STACKS
Welcome,User1
Push and Pop
Infix to Postfix
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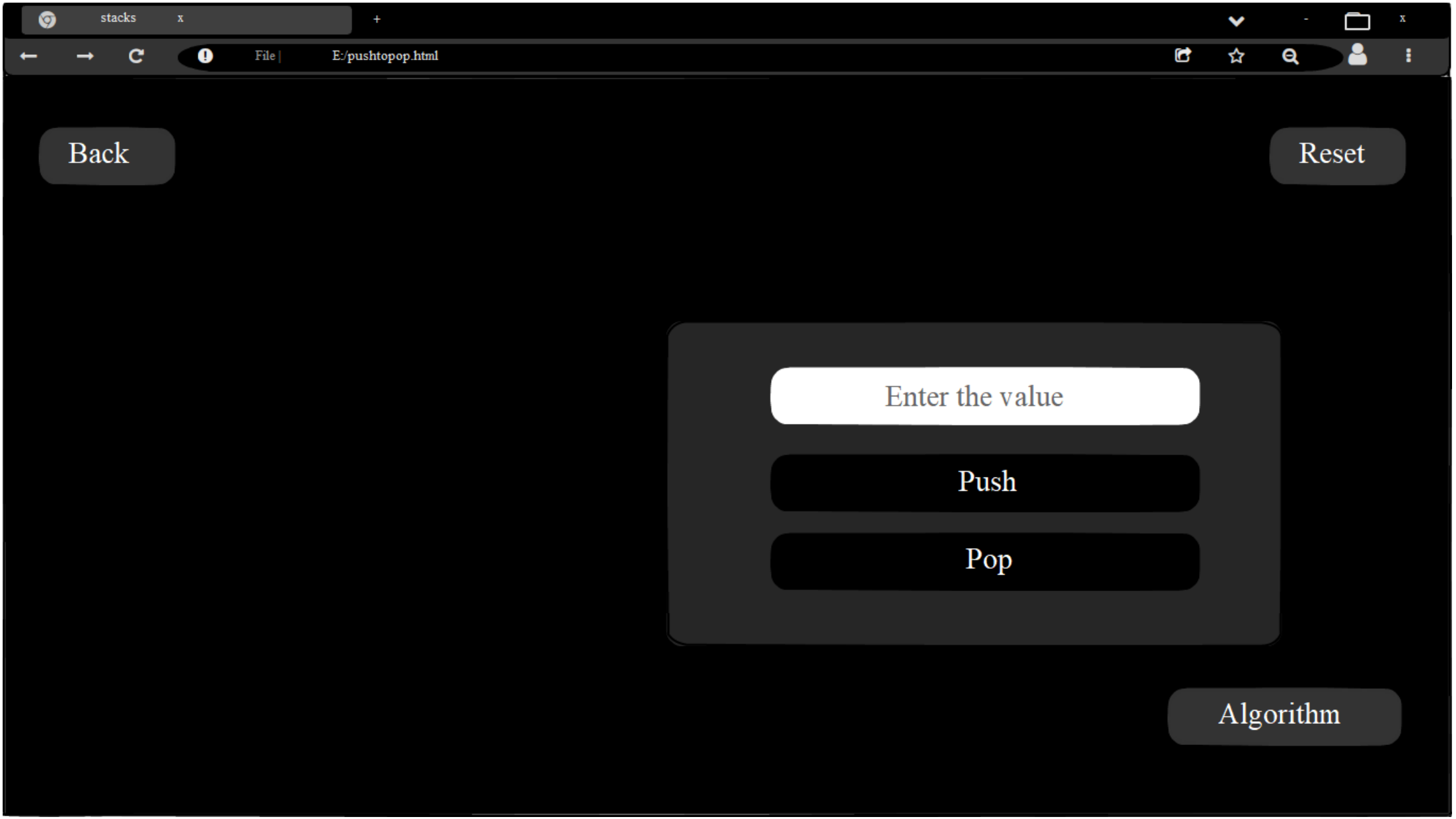
Feedback


stacks
x
+
File |
E:/pushtopop.html
Back
Reset
Enter the value
Push
Pop
Algorithm

stacks x

File | E:/pushtopop.html

Back

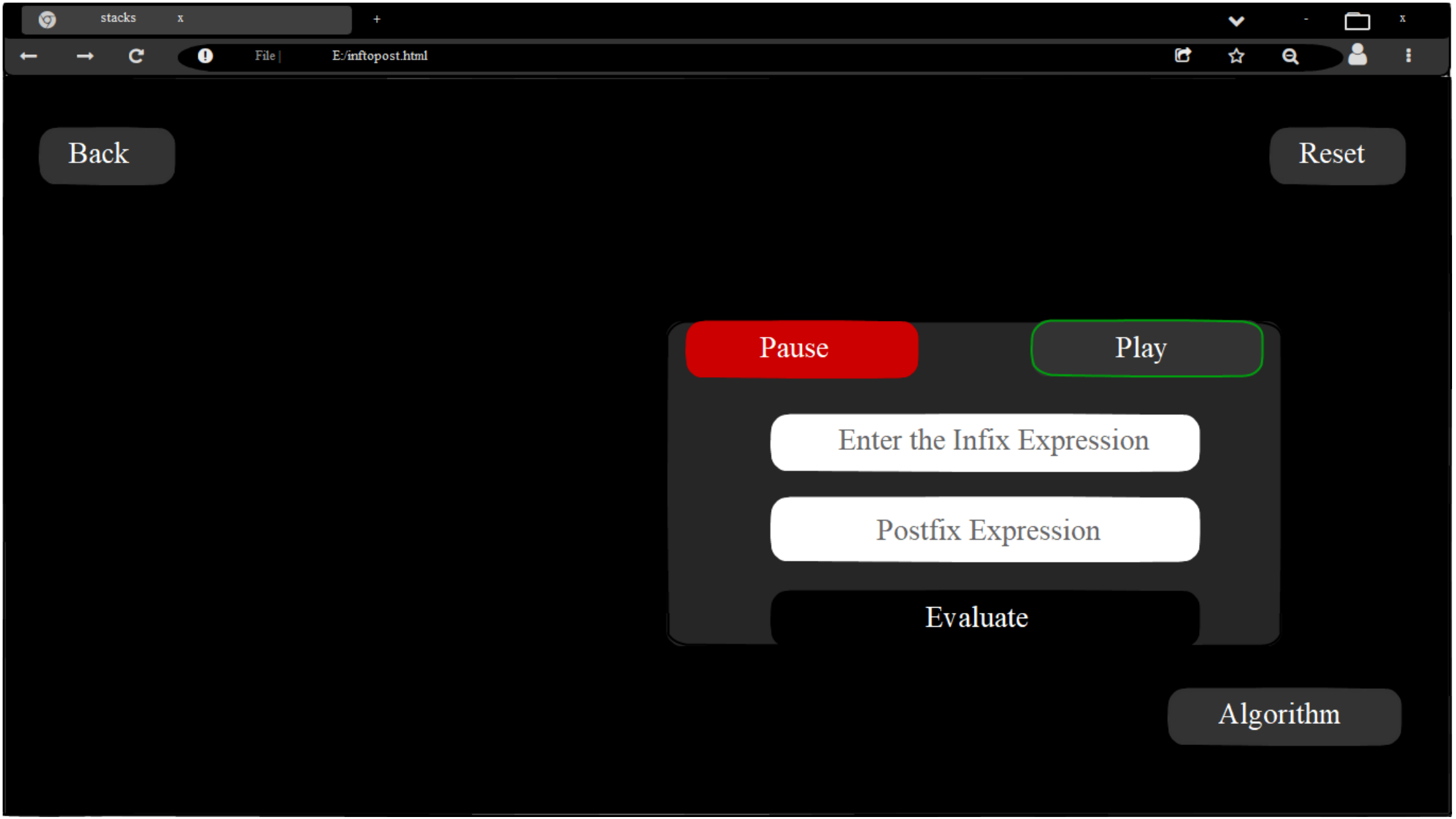
Reset

75

Push

Pop

Algorithm

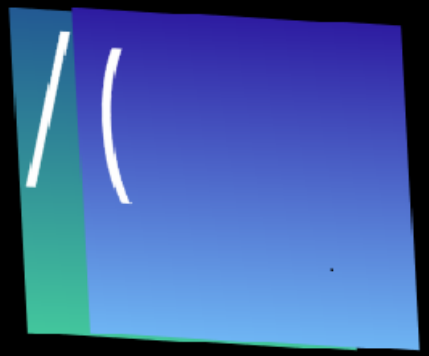

stacks
x
+
File |
E:/inftopost.html
Back
Reset
Pause
Play
Enter the Infix Expression
Postfix Expression
Evaluate
Algorithm

stacks x

File | E:/inftopost.html

Back

Reset



Pause

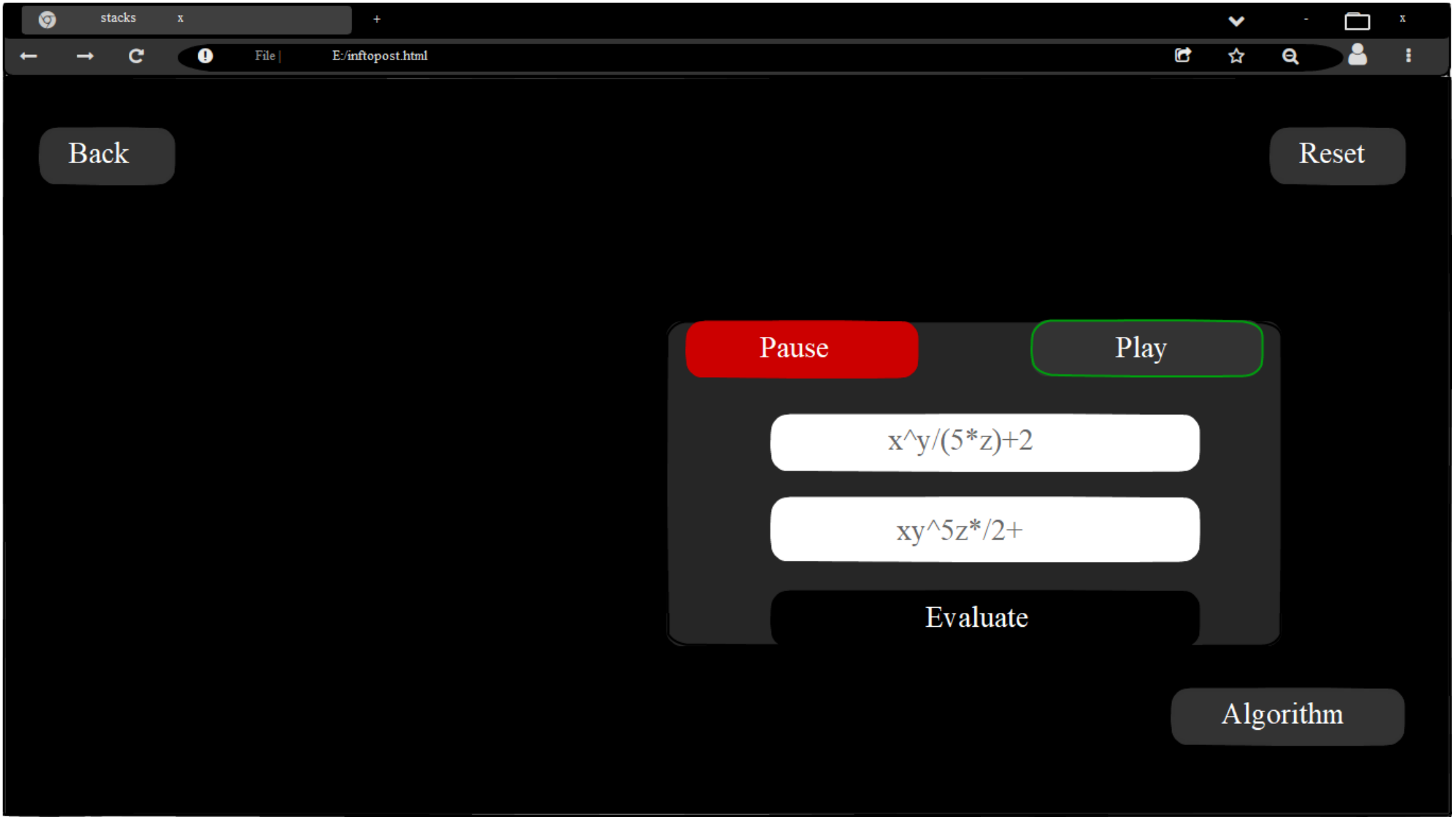
Play

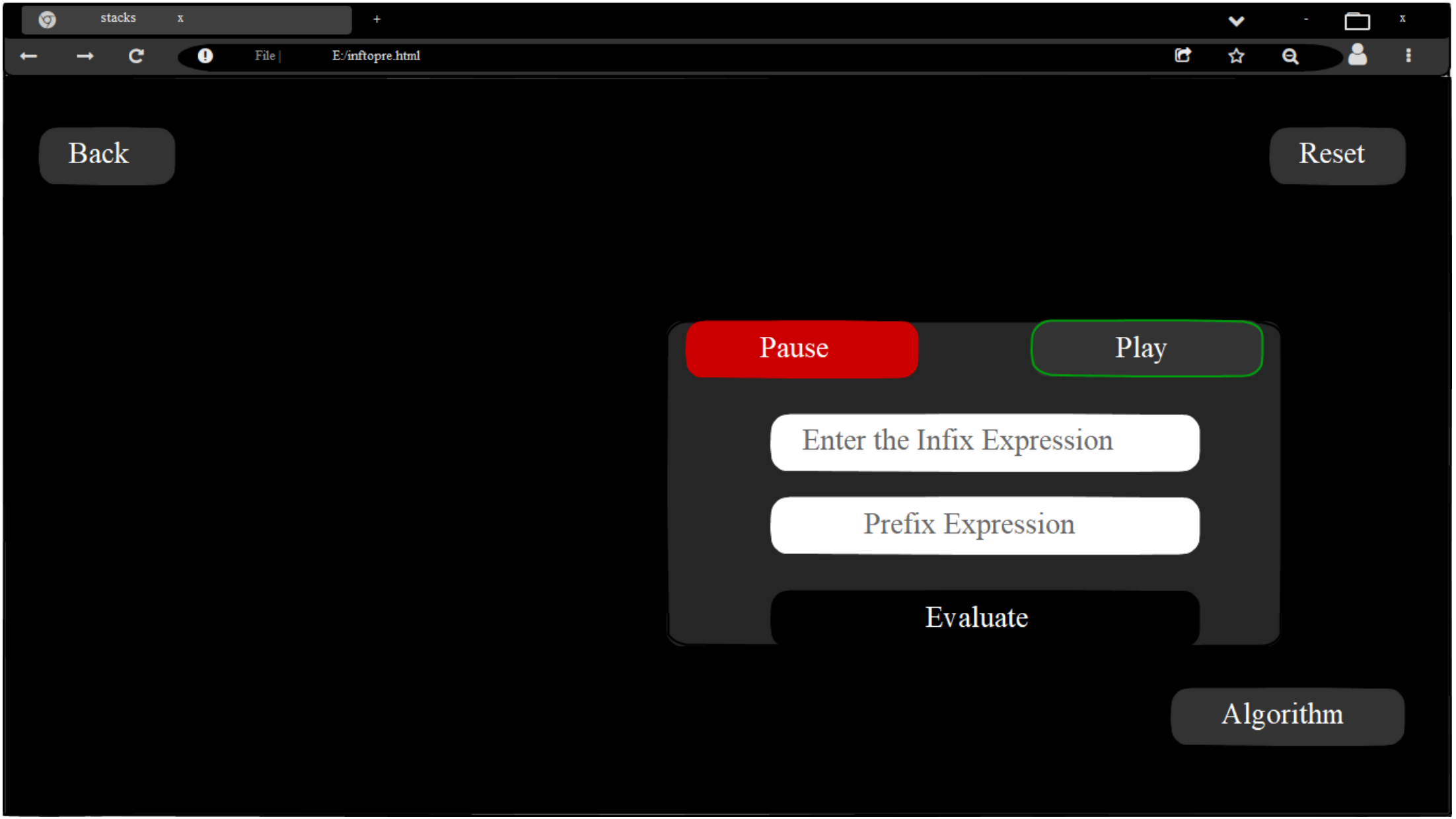
x^y/(5*z)+2

xy^5z

Evaluate

Algorithm


stacks
x
+
File |
E:/inftopost.html
Back
Reset
Pause
Play
x^y/(5*z)+2
xy^5z*/2+
Evaluate
Algorithm


stacks
x
+
File |
E:/inftopre.html
Back
Reset
Pause
Play
Enter the Infix Expression
Prefix Expression
Evaluate
Algorithm

stacks x

File | E:/inftopre.html

Back

Reset

Pause

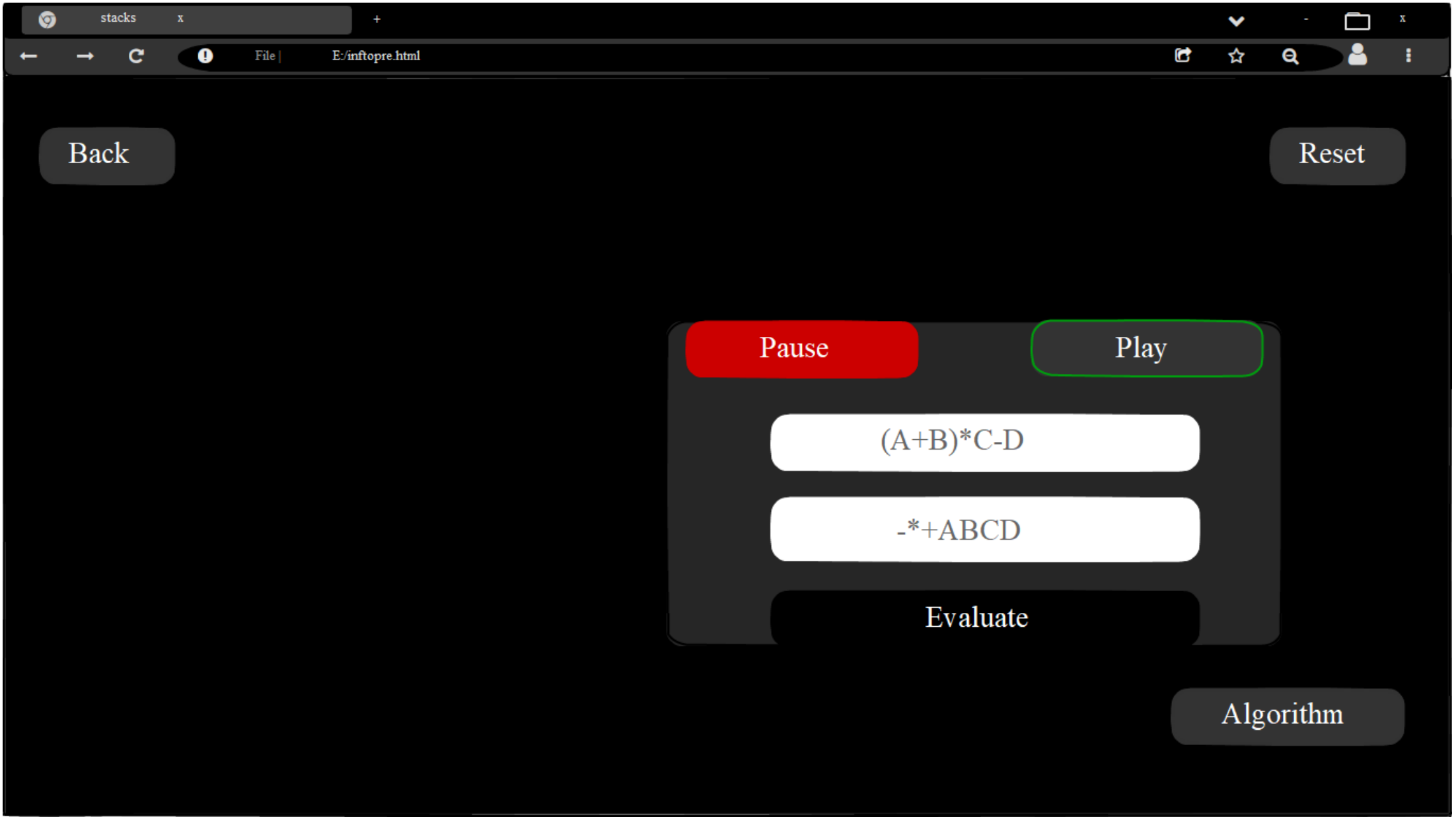
Play

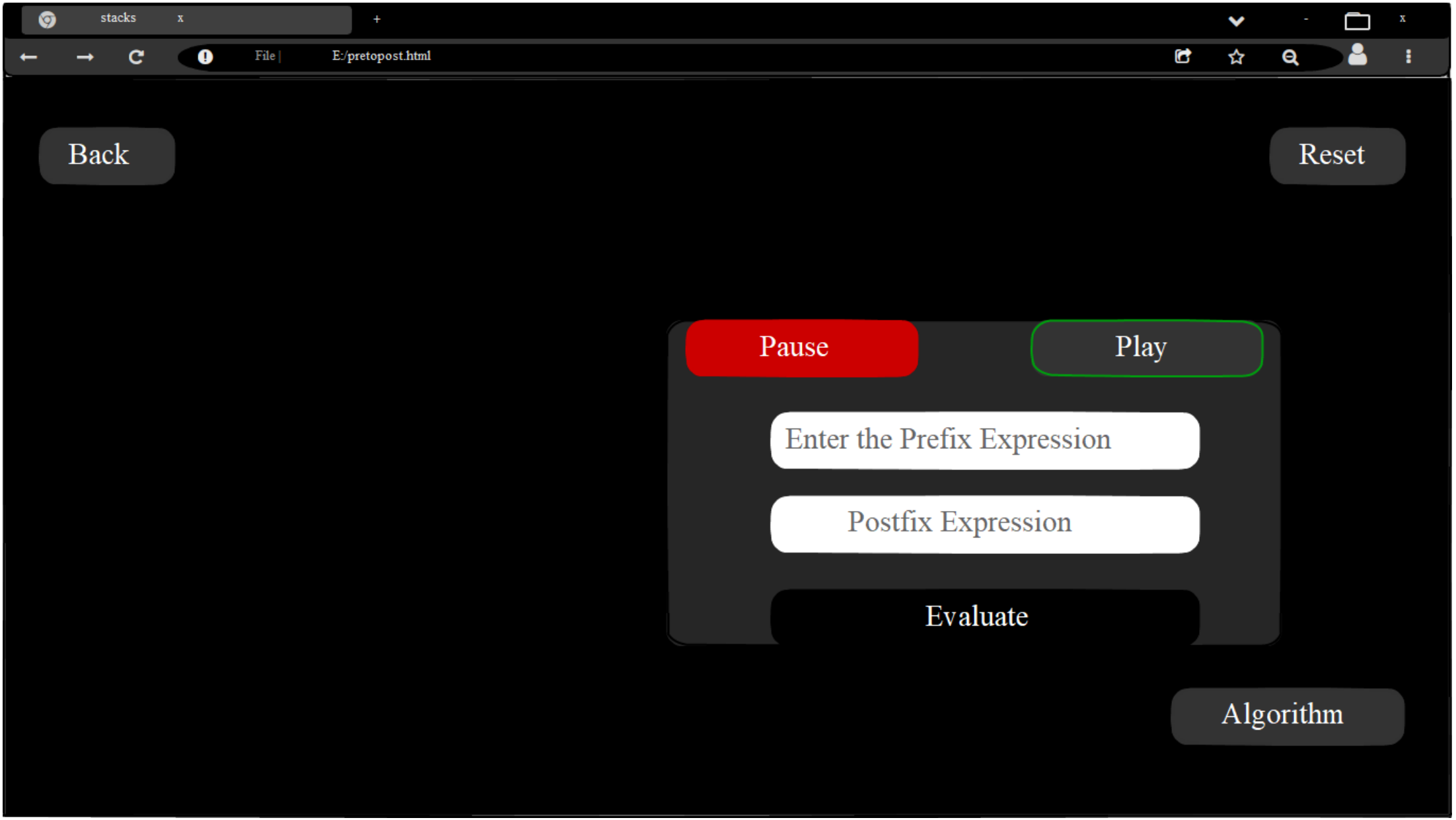
(A+B)*C-D

DC

Evaluate

Algorithm


stacks
x
+
File |
E:/inftopre.html
Back
Reset
Pause
Play
(A+B)*C-D
-*+ABCD
Evaluate
Algorithm

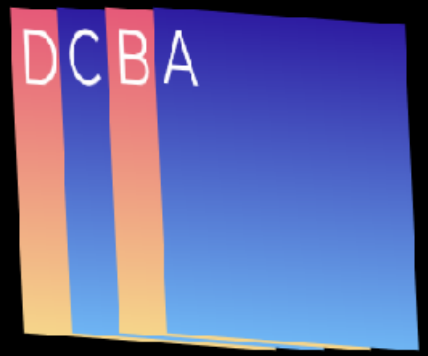

stacks
x
+
File |
E:/pretopost.html
Back
Reset
Pause
Play
Enter the Prefix Expression
Postfix Expression
Evaluate
Algorithm

stacks x

File | E:/pretopost.html

Back

Reset



Pause

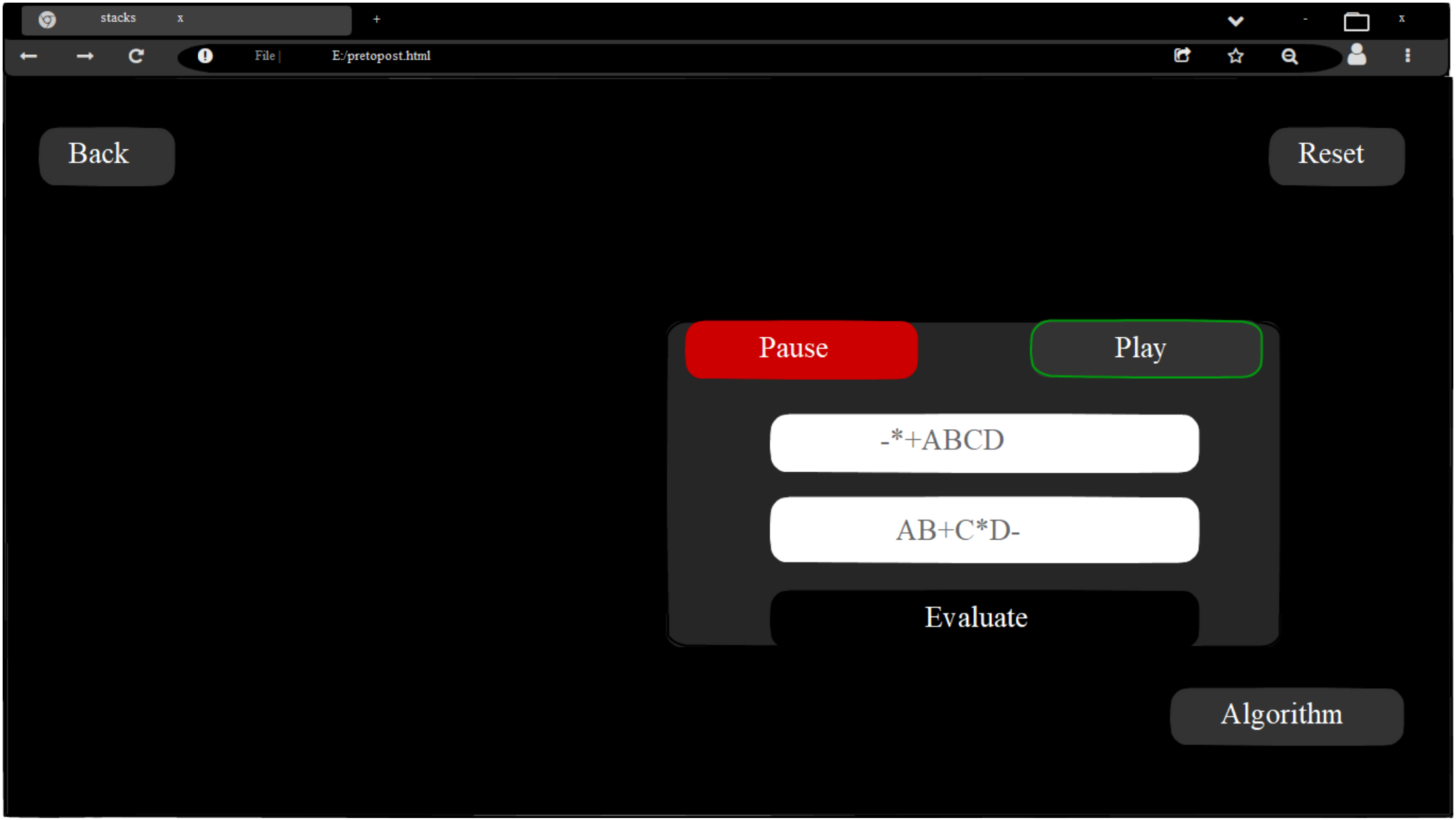
Play

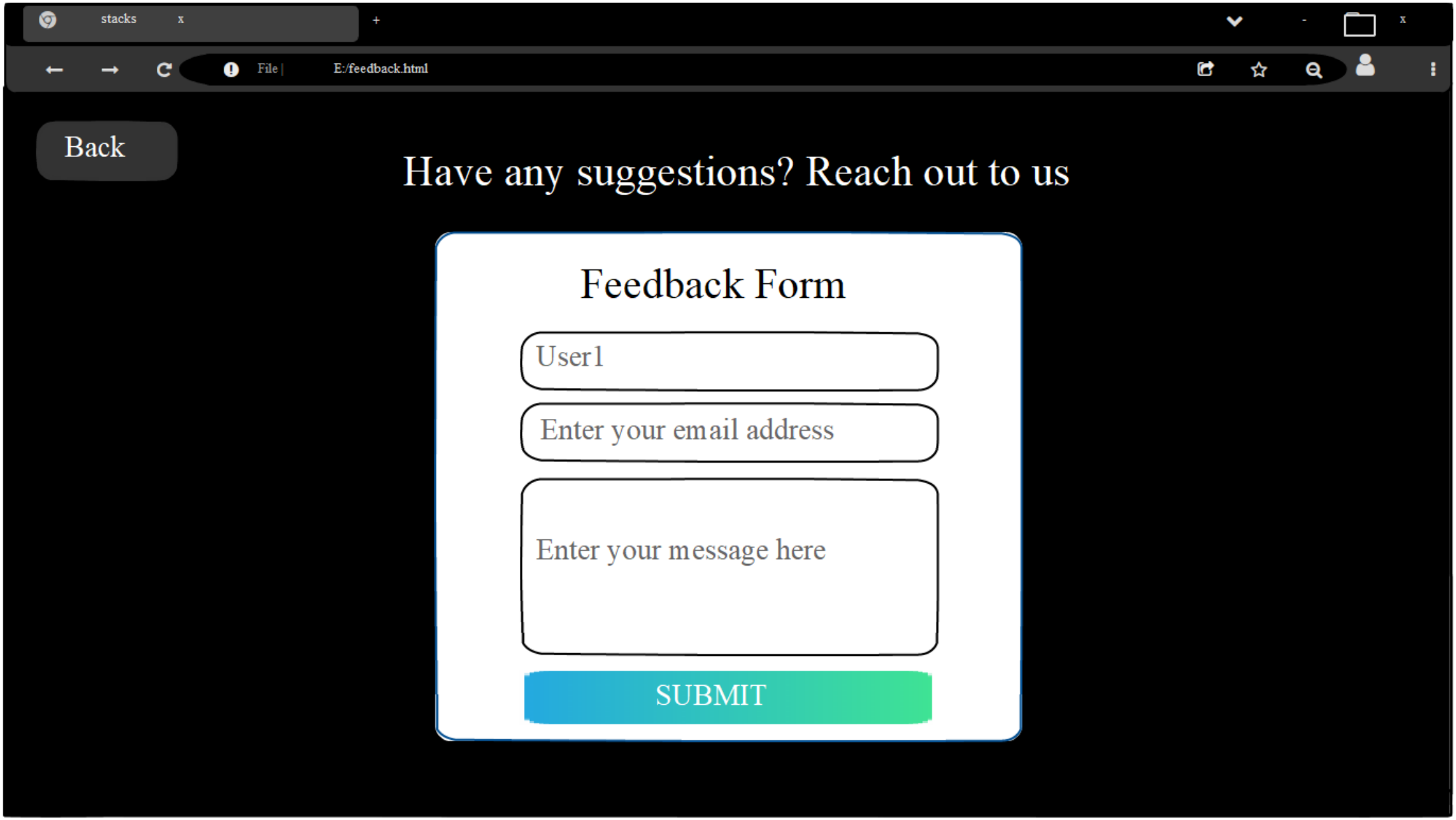
-*+ABCD

DCB

Evaluate

Algorithm


stacks
x
+
File |
E:/pretopost.html
Back
Reset
Pause
Play
-*+ABCD
AB+C*D-
Evaluate
Algorithm


stacks
x
+
File |
E:/feedback.html
Back
Have any suggestions? Reach out to us
Feedback Form
User1
Enter your email address
Enter your message here
SUBMIT

stacks x + - x

File | E:/about.html

Back

About Us

TEAM LEAD

Name : Karthik Sarode
S R N : PES1PG21CA030
Backend development, .

" If life is full of stress. You go on a RIDE! '

FRONTEND DEVELOPER

STACK REPRESENTATION

A stack is an Abstract Data Type (ADT), commonly used in most programming languages. It is named stack as it behaves like a real-world stack, for example - a deck of cards or a pile of plates, etc.
Stack operations may involve initializing the stack, using it and then de-initializing it. Apart from these basic stuffs, a stack is used for the following two primary operations –

ALGORITHM FOR PUSH AND POP OPERATION

Step 1:Start
Step 2: If Top=Max-1
Print “Overflow : Stack is full” and Exit

APPLICATION PAGE

INFIX AND POSTFIX EXPRESSION

When the operator is written in between the operands, then it is known as infix notation. Operand does not have to be always a constant or a variable; it can also be an expression itself.
For example, - (p + q) * (r + s)
The postfix expression is an expression in which the operator is written after the operands

ALGORITHM FOR INFIX TO POSTFIX EXPRESSION

Let, X is an arithmetic expression written in infix notation. This algorithm finds the equivalent postfix expression Y.
Step 1: Start

APPLICATION PAGE

INFIX EXPRESSION AND PREFIX EXPRESSION

Infix expression:

(p + q) * (r + s)

Syntax of infix notation is given below:

< operand > < operator > < operand >

Prefix expression:

- +pq +rs

ALGORITHM FOR INFIX TO PREFIX EXPRESSION

Iterate the given expression from left to right, one character at a time

Step 1: Start

Step 2: First reverse the given expression

APPLICATION PAGE

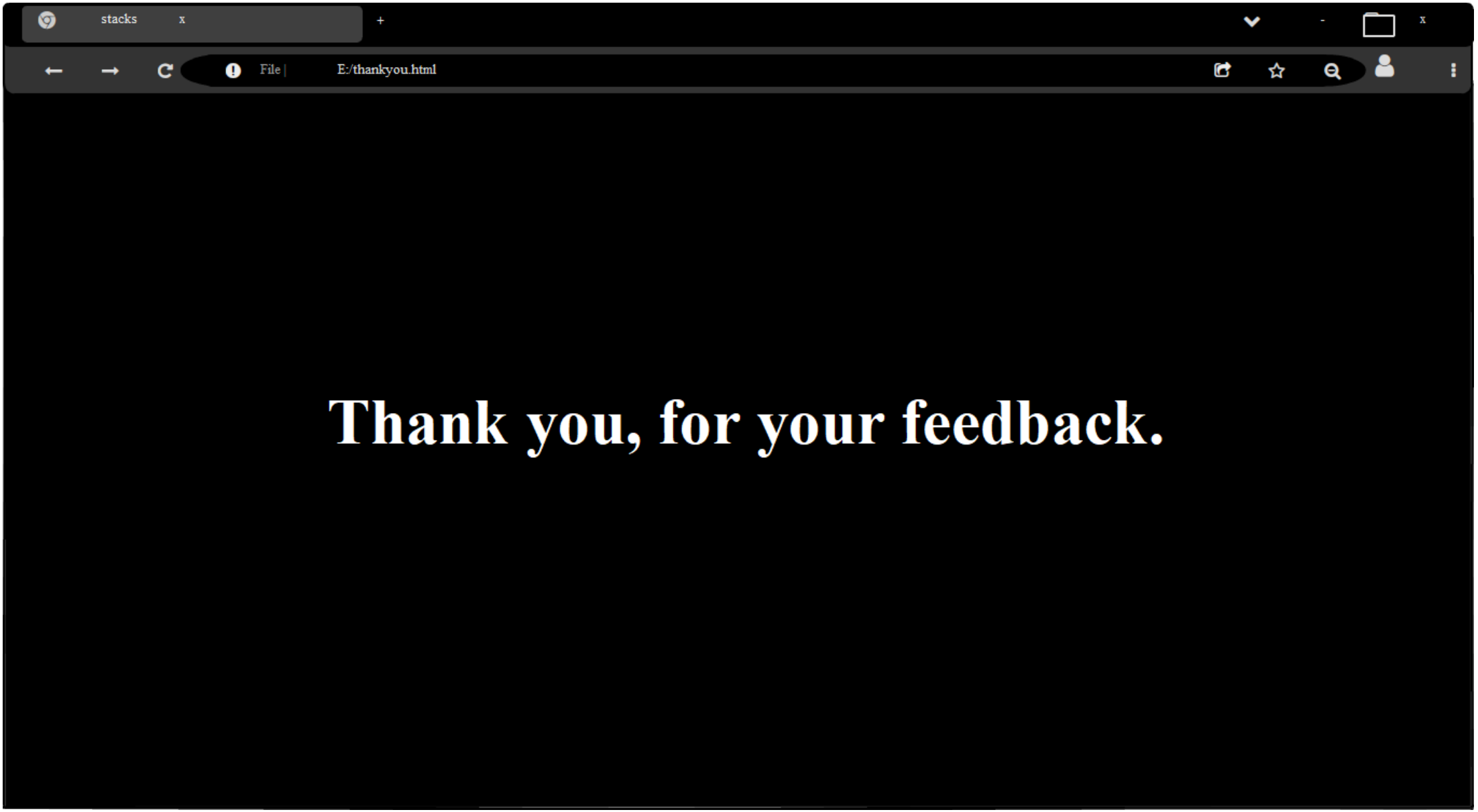
PREFIX EXPRESSION , POSTFIX EXPRESSION

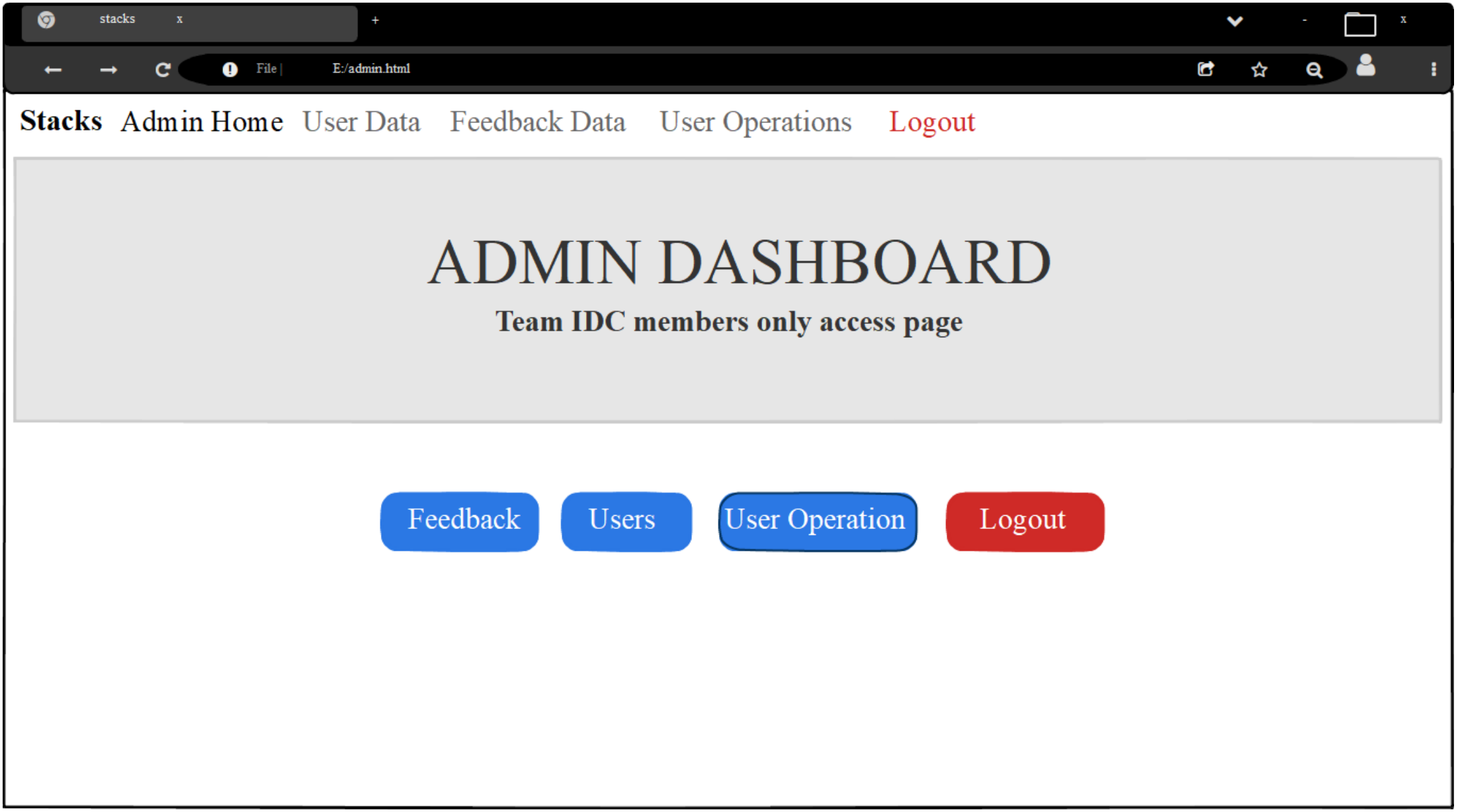
A stack is an Abstract Data Type (ADT), commonly used in most programming languages. It is named stack as it behaves like a real-world stack, for example - a deck of cards or a pile of plates, etc.
Stack operations may involve initializing the stack, using it and then de-initializing it. Apart from these basic stuffs, a stack is used for the following two primary operations –

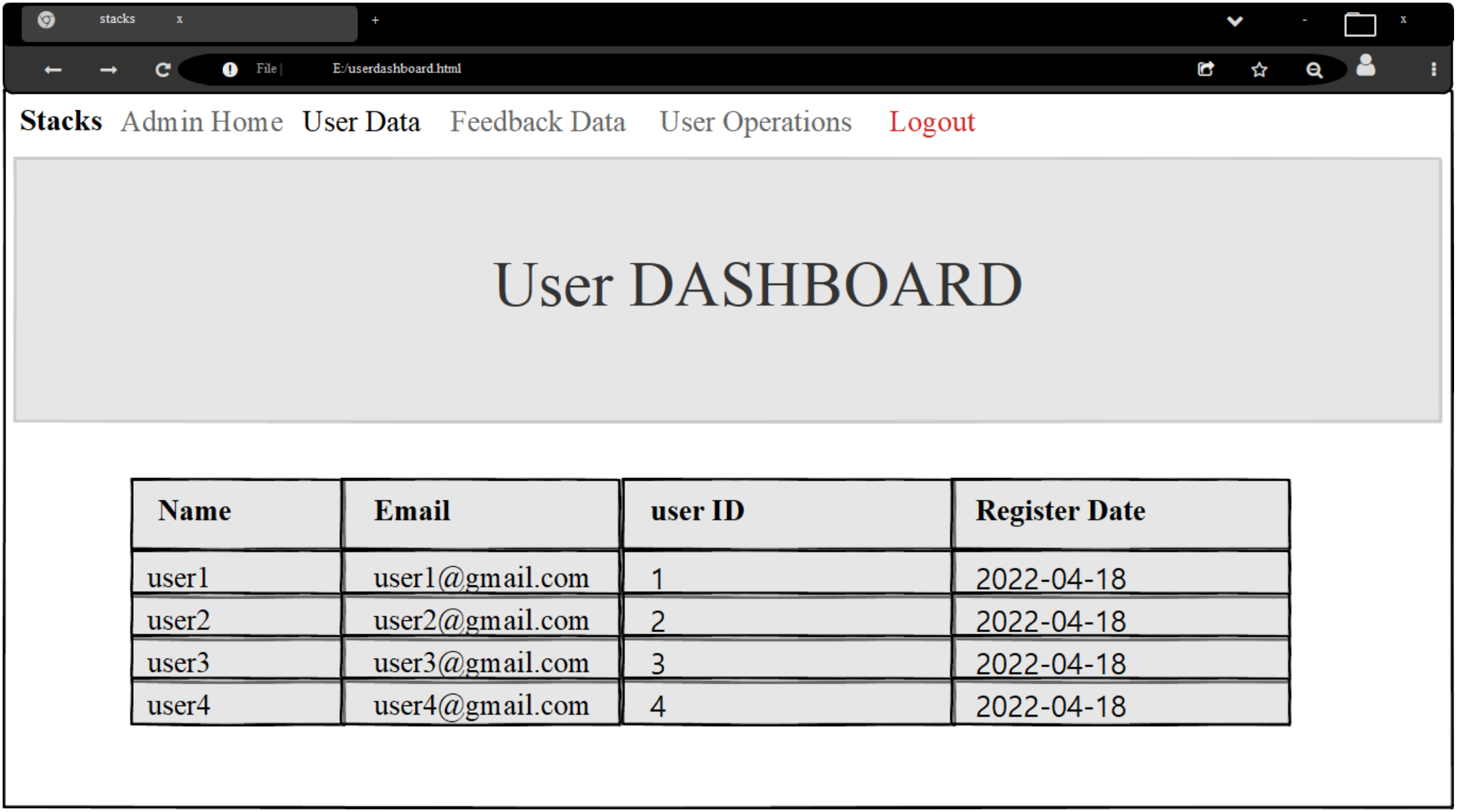
ALGORITHM FOR PREFIX TO POSTFIX EXPRESSION

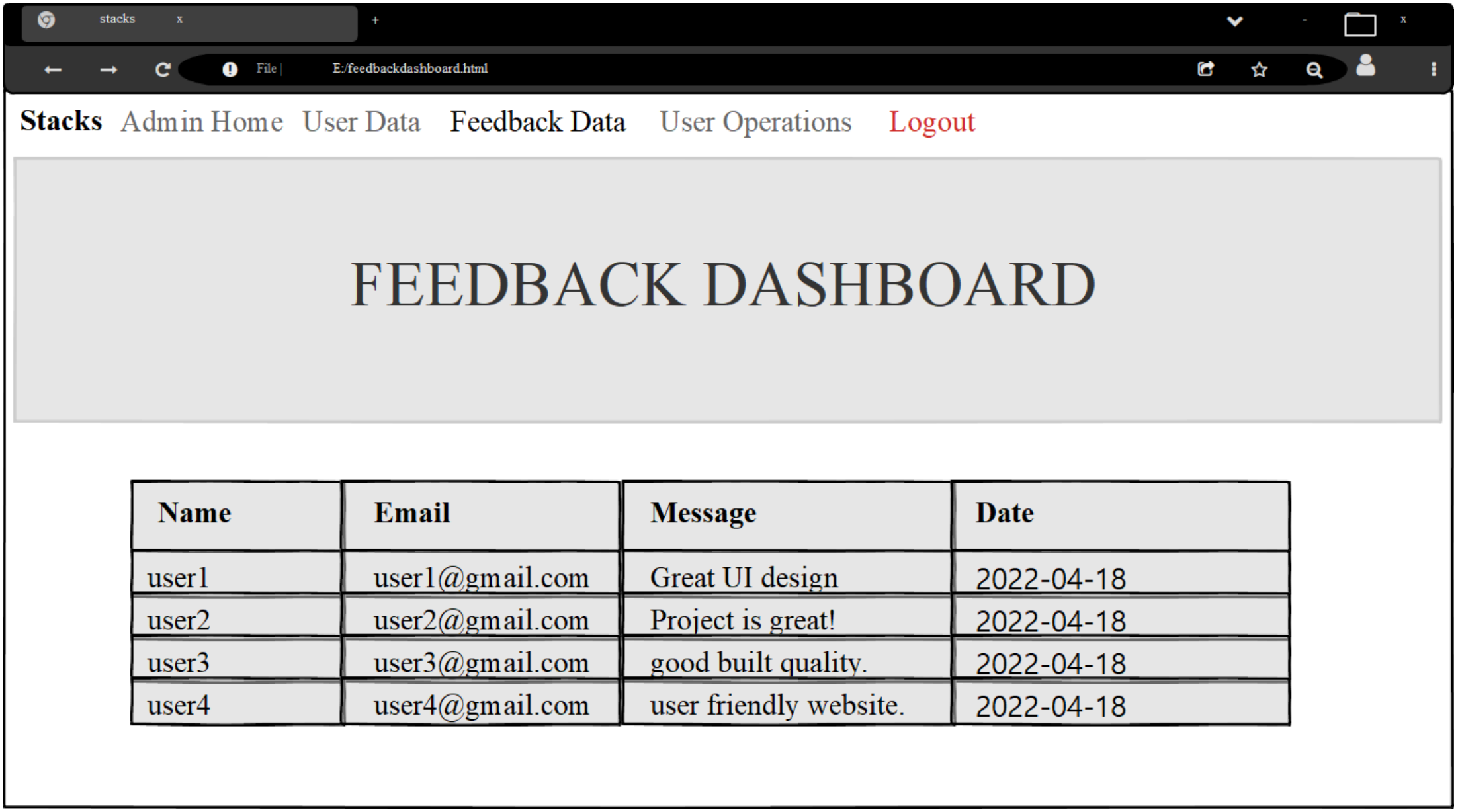
Let, Q be the arithematic expression written in prefix notation. P is the postfix notation.
Step 1: Start

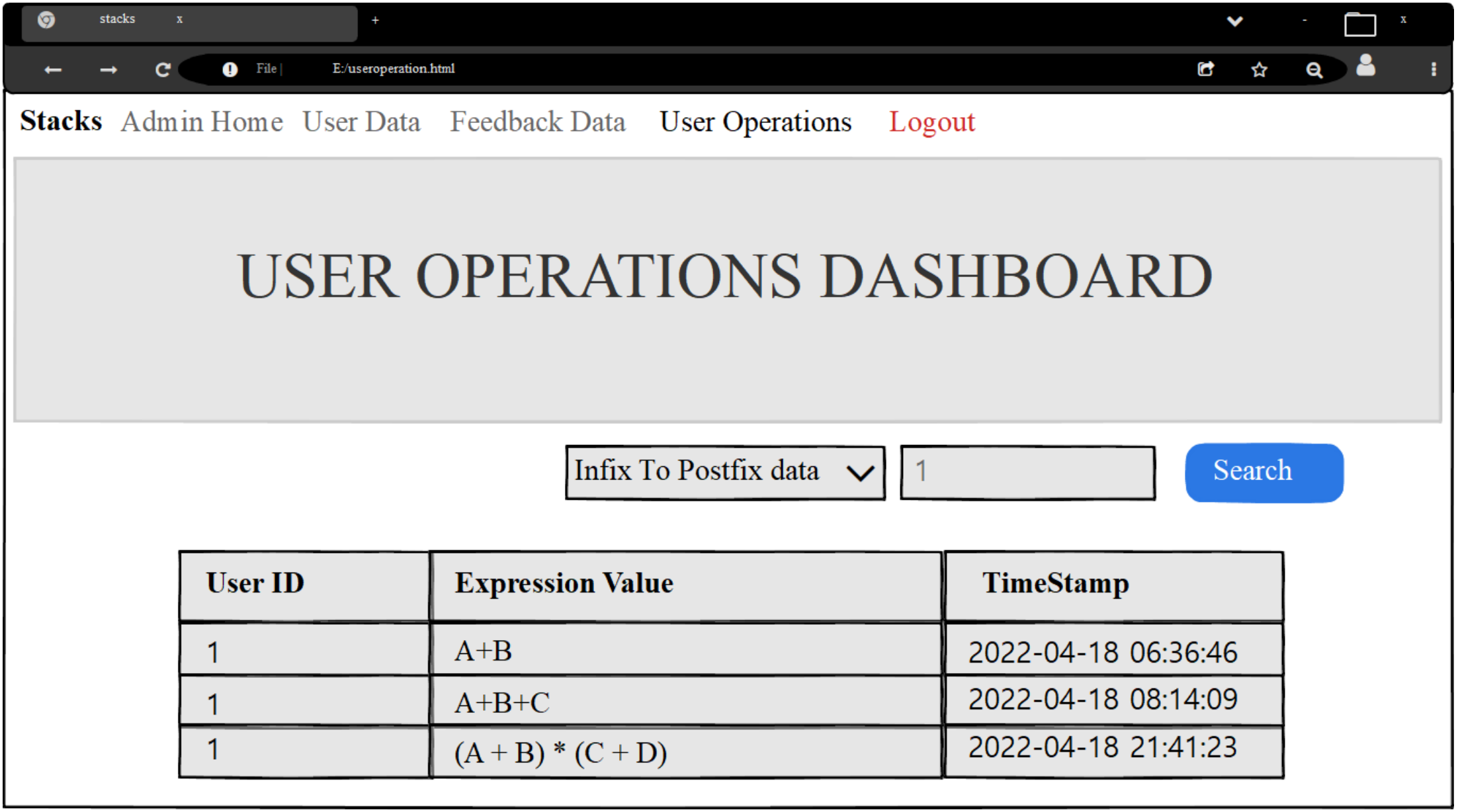
APPLICATION PAGE


stacks
x
+
-
x
File |
E:/thankyou.html
Thank you, for your feedback.


stacks
x
+
File | E:/admin.html
Stacks Admin Home User Data Feedback Data User Operations Logout
ADMIN DASHBOARD
Team IDC members only access page
Feedback
Users
User Operation
Logout


stacks
x
+
File |
E:/userdashboard.html
Stacks
Admin Home
User Data
Feedback Data
User Operations
Logout
User DASHBOARD
Name
Email
user ID
Register Date
user1
user1@gmail.com
1
2022-04-18
user2
user2@gmail.com
2
2022-04-18
user3
user3@gmail.com
3
2022-04-18
user4
user4@gmail.com
4
2022-04-18


stacks
x
+
File |
E:/feedbackdashboard.html
Stacks
Admin Home
User Data
Feedback Data
User Operations
Logout
FEEDBACK DASHBOARD
Name
Email
Message
Date
user1
user1@gmail.com
Great UI design
2022-04-18
user2
user2@gmail.com
Project is great!
2022-04-18
user3
user3@gmail.com
good built quality.
2022-04-18
user4
user4@gmail.com
user friendly website.
2022-04-18


stacks
File | E:/useroperation.html
Stacks Admin Home User Data Feedback Data User Operations Logout
USER OPERATIONS DASHBOARD
Infix To Postfix data
1
Search
User ID
Expression Value
TimeStamp
1
A+B
2022-04-18 06:36:46
1
A+B+C
2022-04-18 08:14:09
1
(A + B) * (C + D)
2022-04-18 21:41:23