Graphical Representation Of Stack Operations

Team project members:

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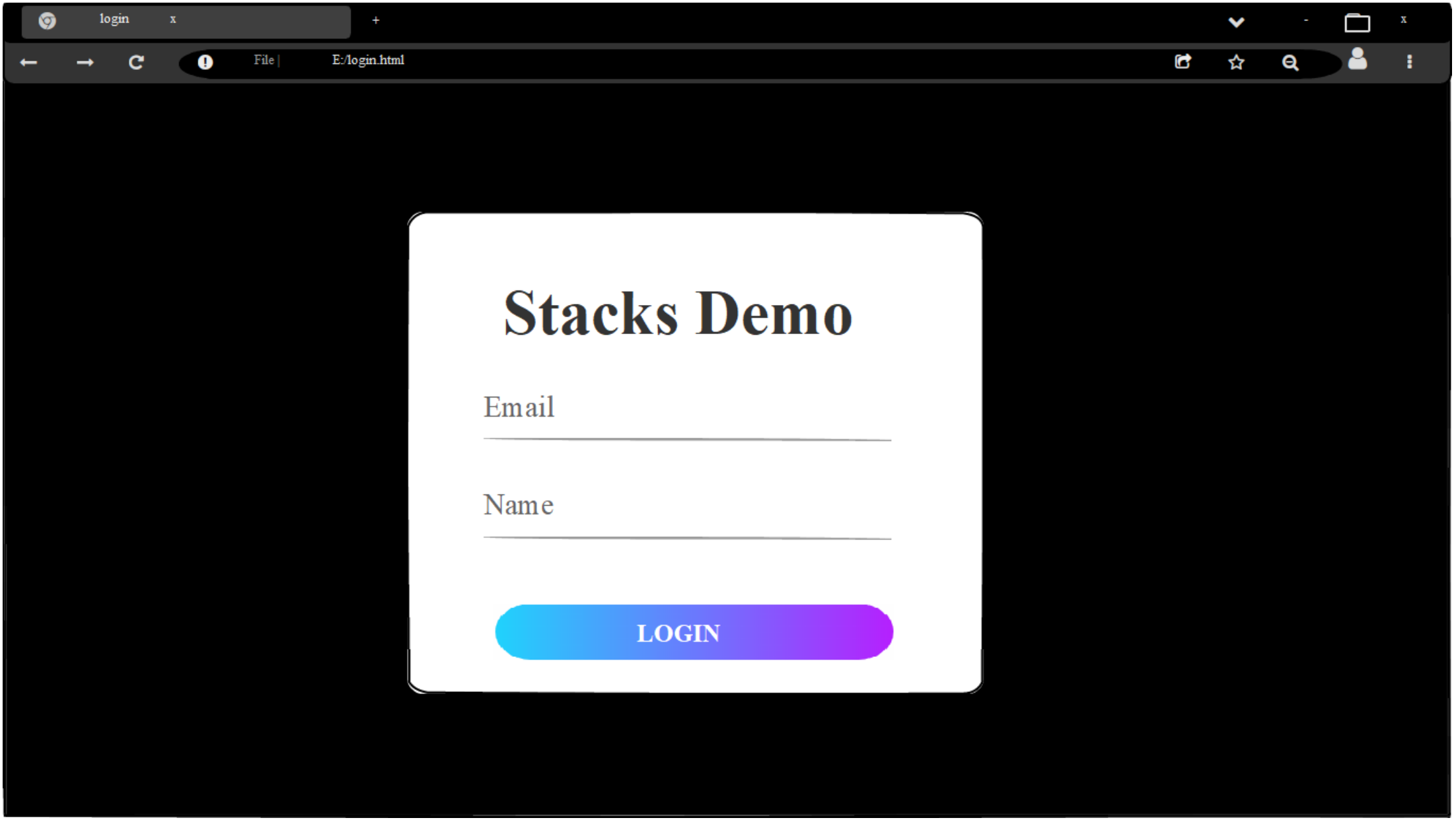
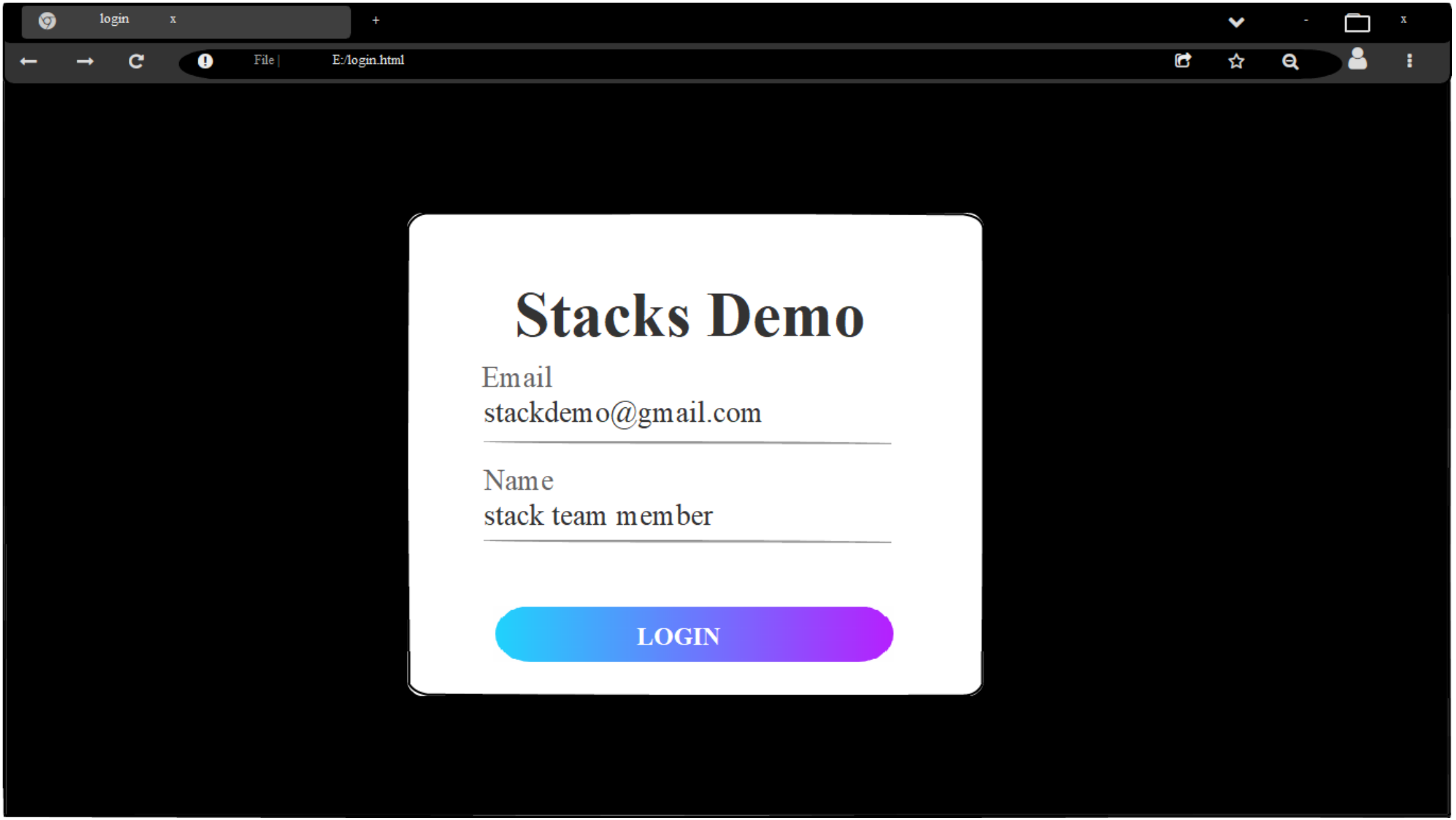
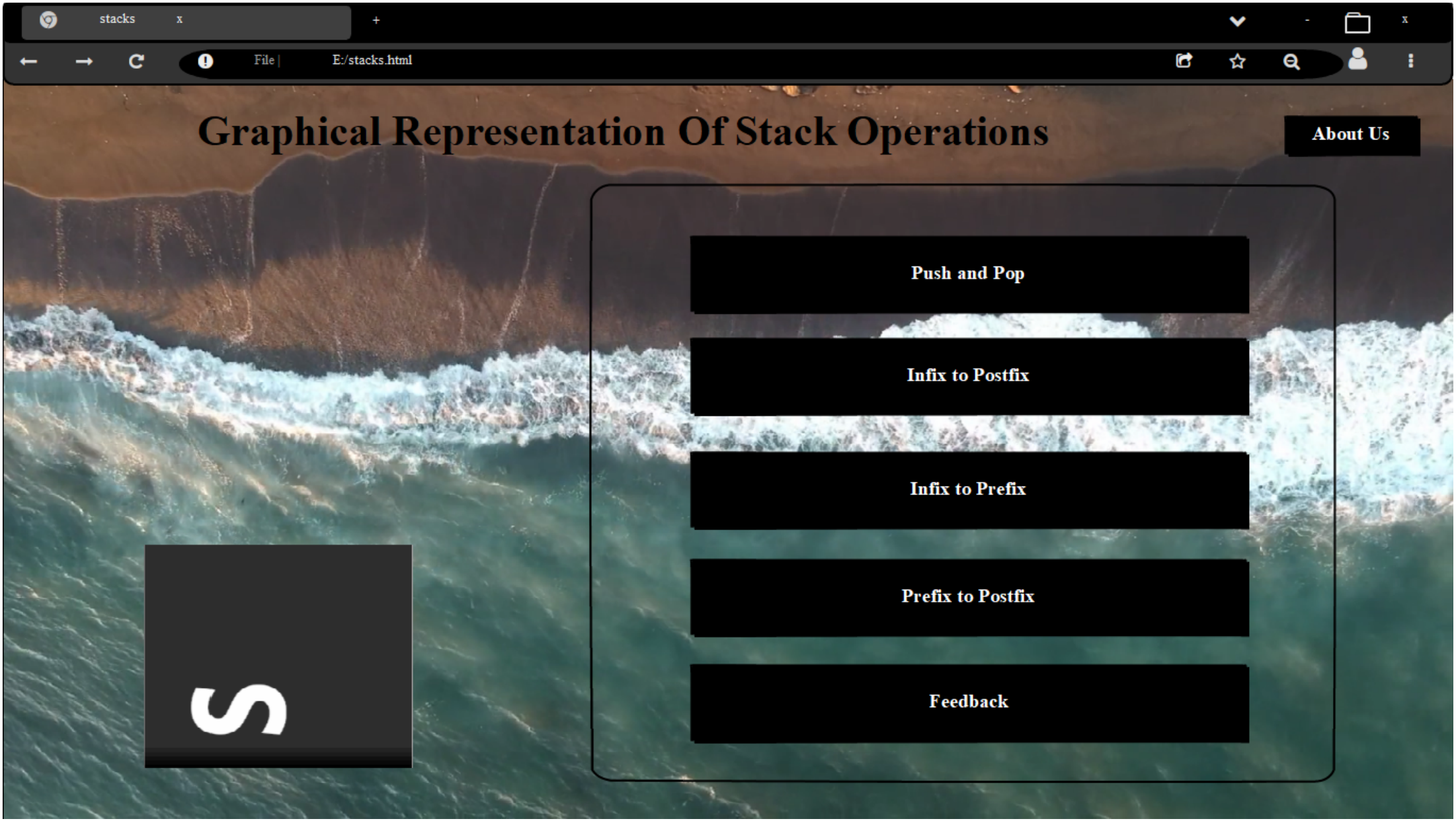
Karthik R Bhat	PES1PG21CA031


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


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


stacks
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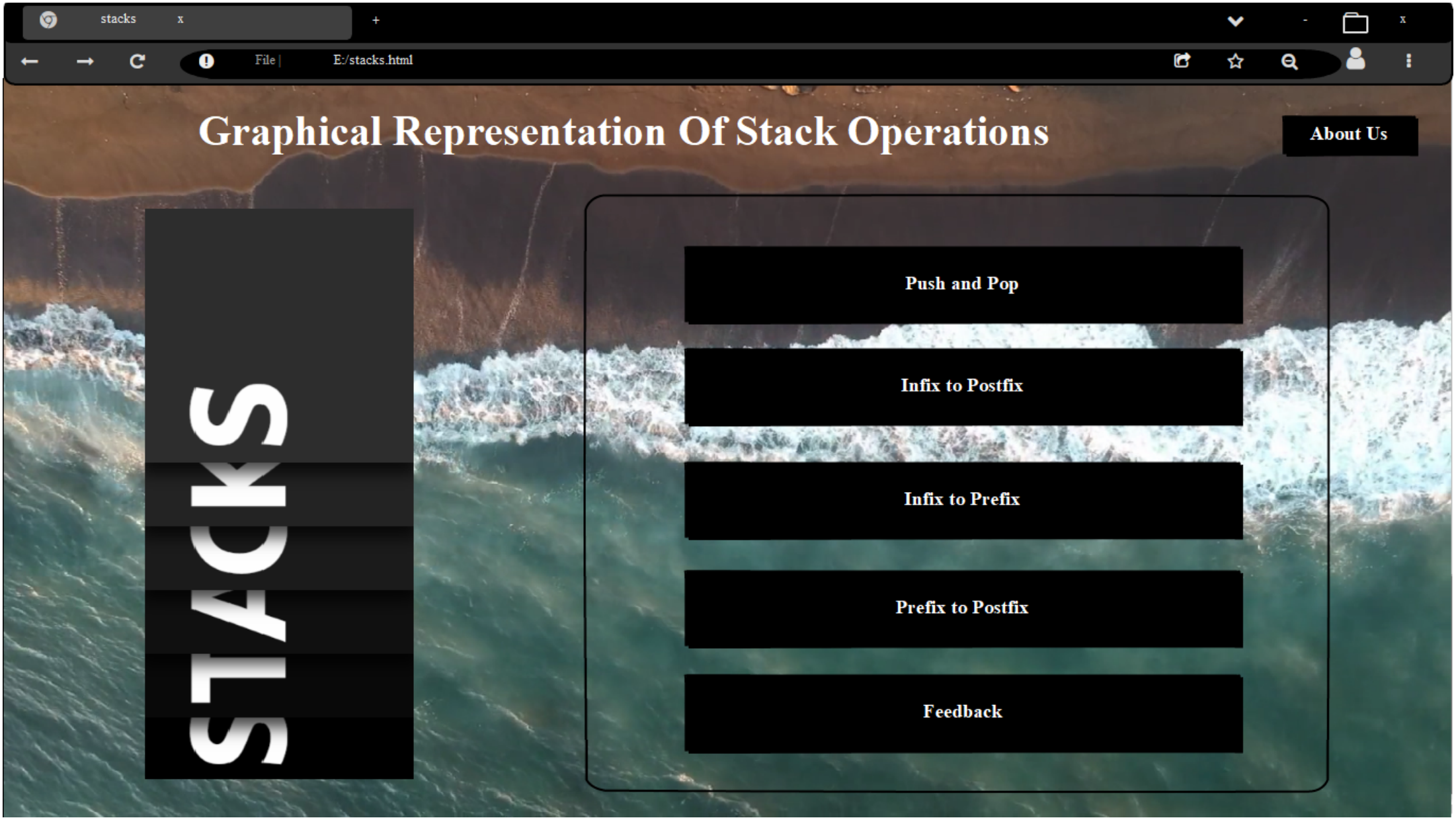
File | E:/stacks.html
Graphical Representation Of Stack Operations
About Us
Push and Pop
Infix to Postfix
Infix to Prefix
Prefix to Postfix
Feedback


stacks
x
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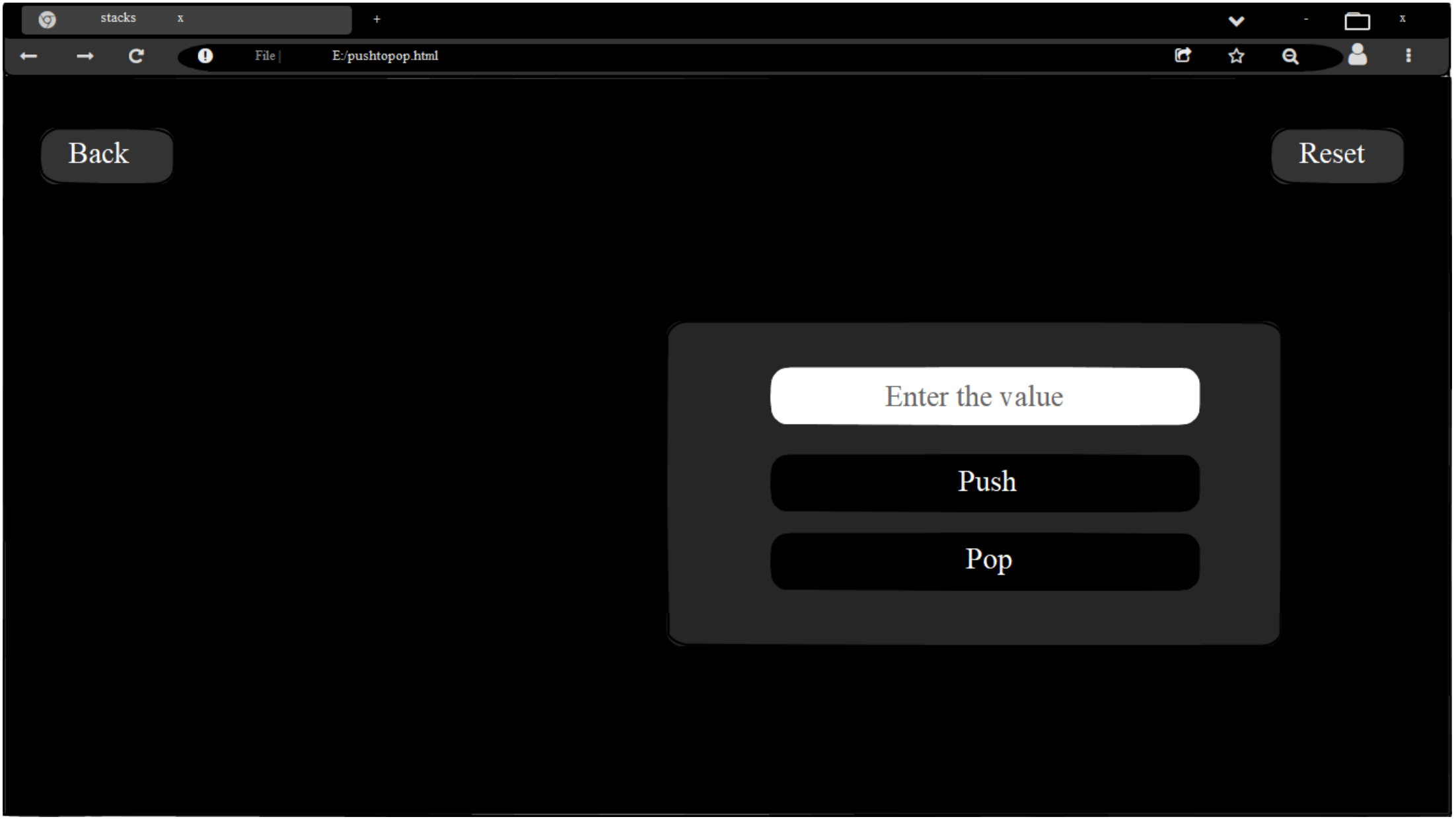
File | E:/stacks.html
Graphical Representation Of Stack Operations
About Us
STACKS
Push and Pop
Infix to Postfix
Infix to Prefix
Prefix to Postfix
Feedback


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

stacks x

File | E:/pushtopop.html

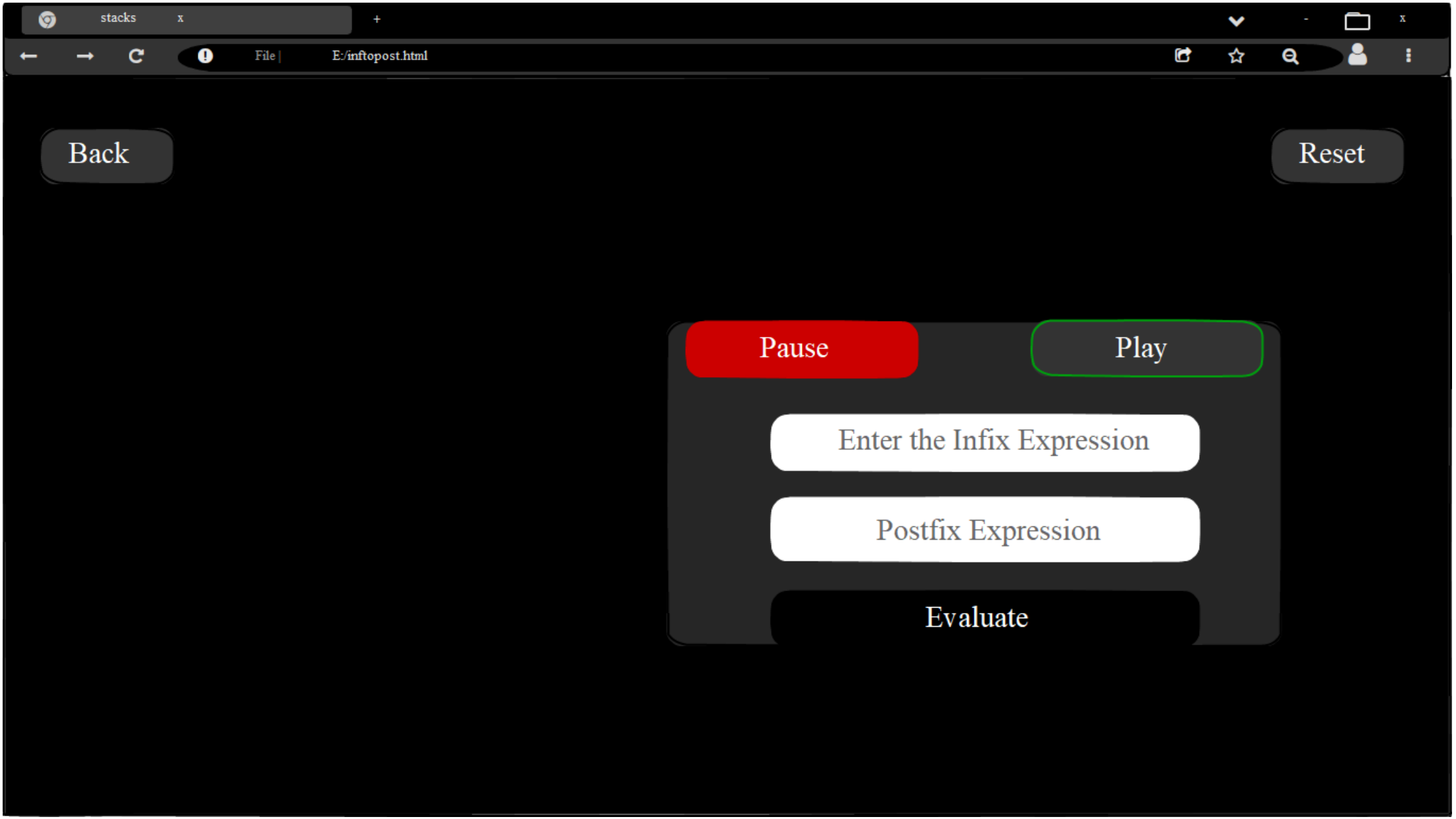
Back

Reset

75

Push

Pop

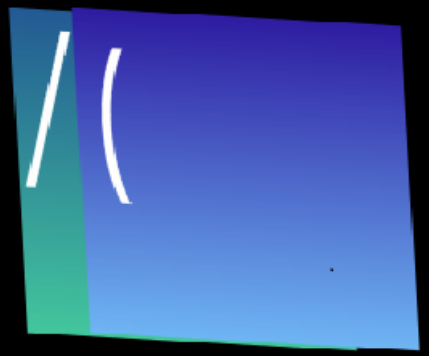

stacks
x
+
File |
E:/inftopost.html
Back
Reset
Pause
Play
Enter the Infix Expression
Postfix Expression
Evaluate

stacks x

File | E:/inftopost.html

Back

Reset



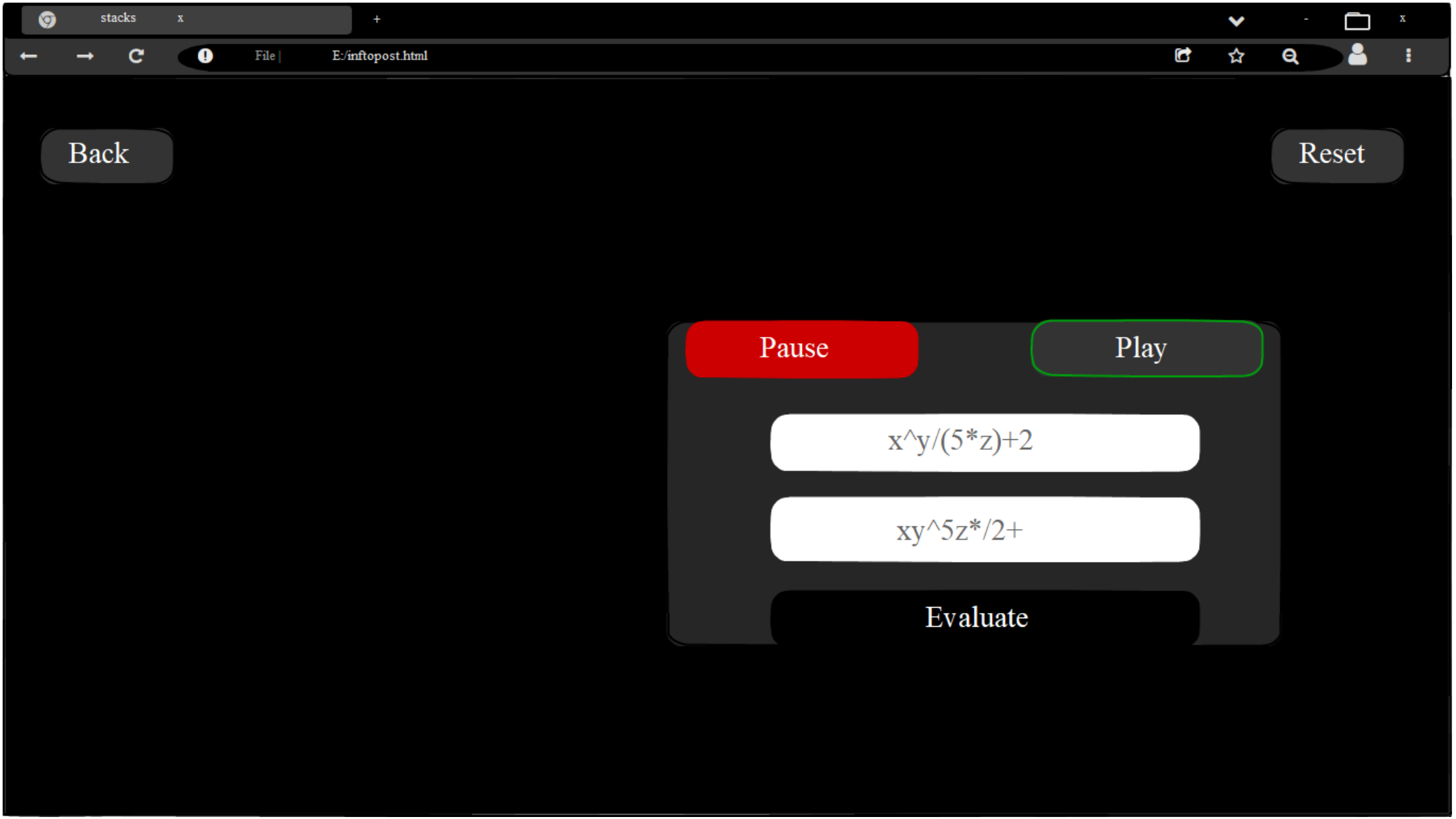
Pause

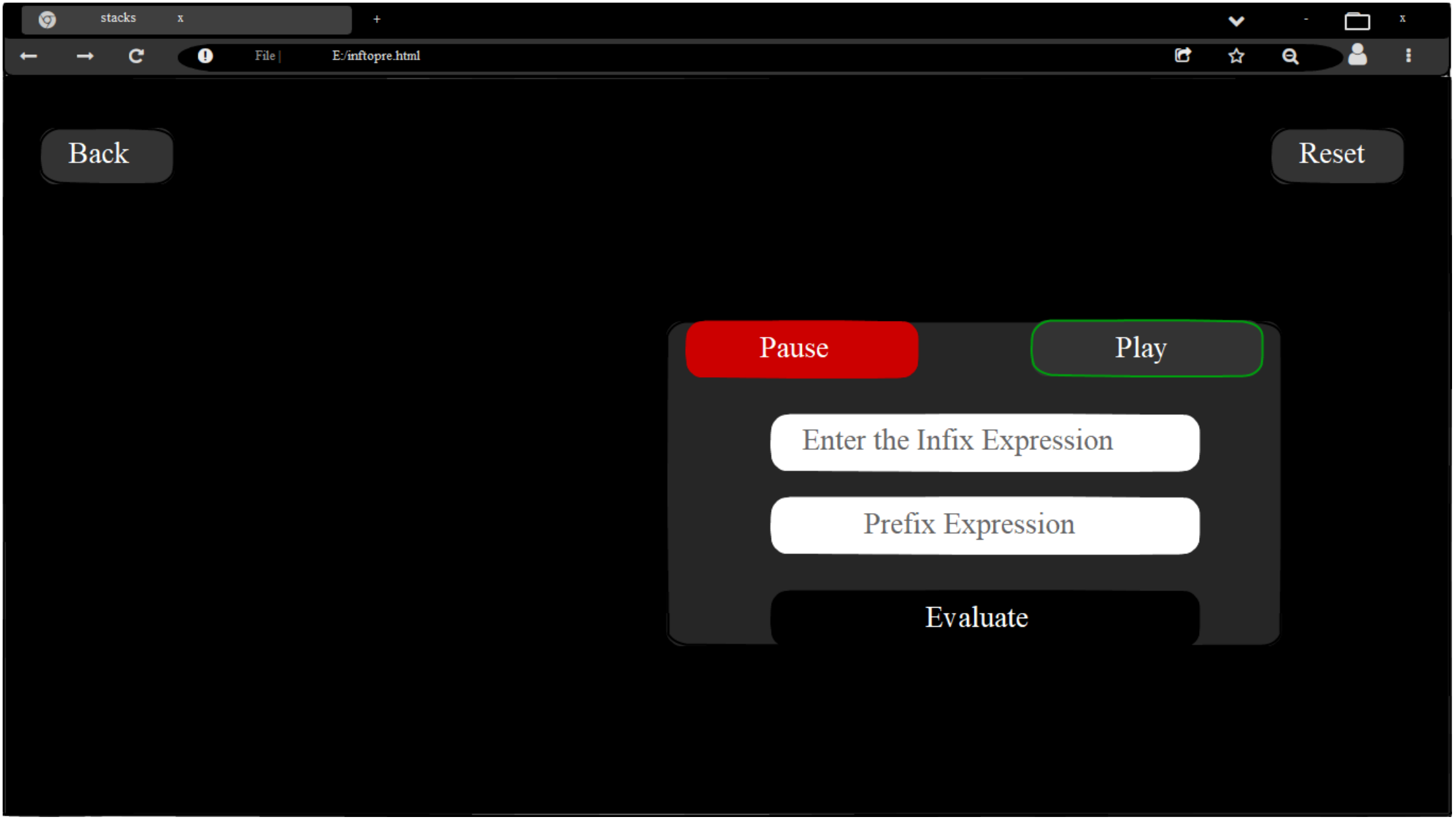
Play

x^y/(5*z)+2

xy^5z

Evaluate


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


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

stacks x

File | E:/inftopre.html

Back

Reset

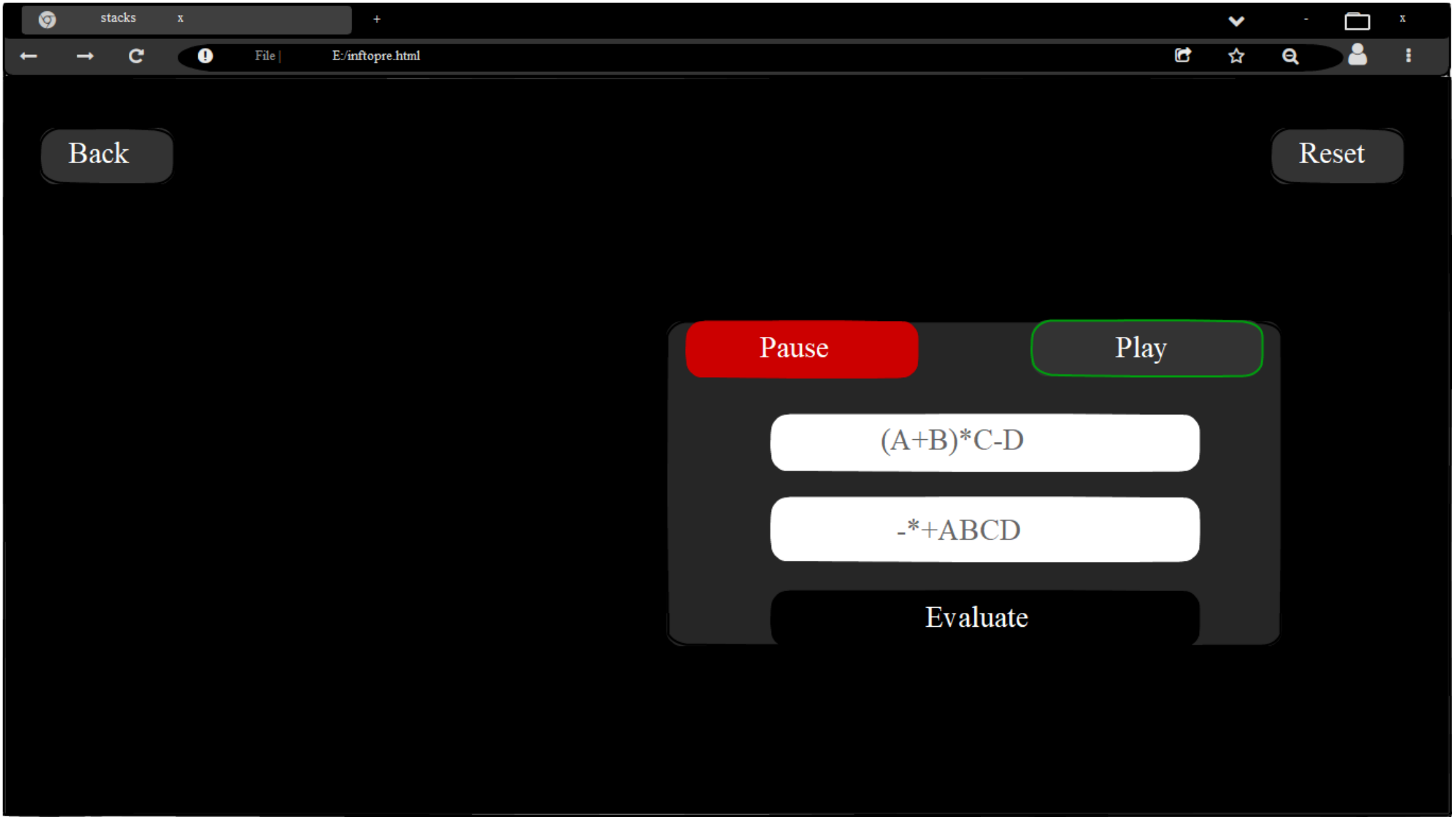
Pause

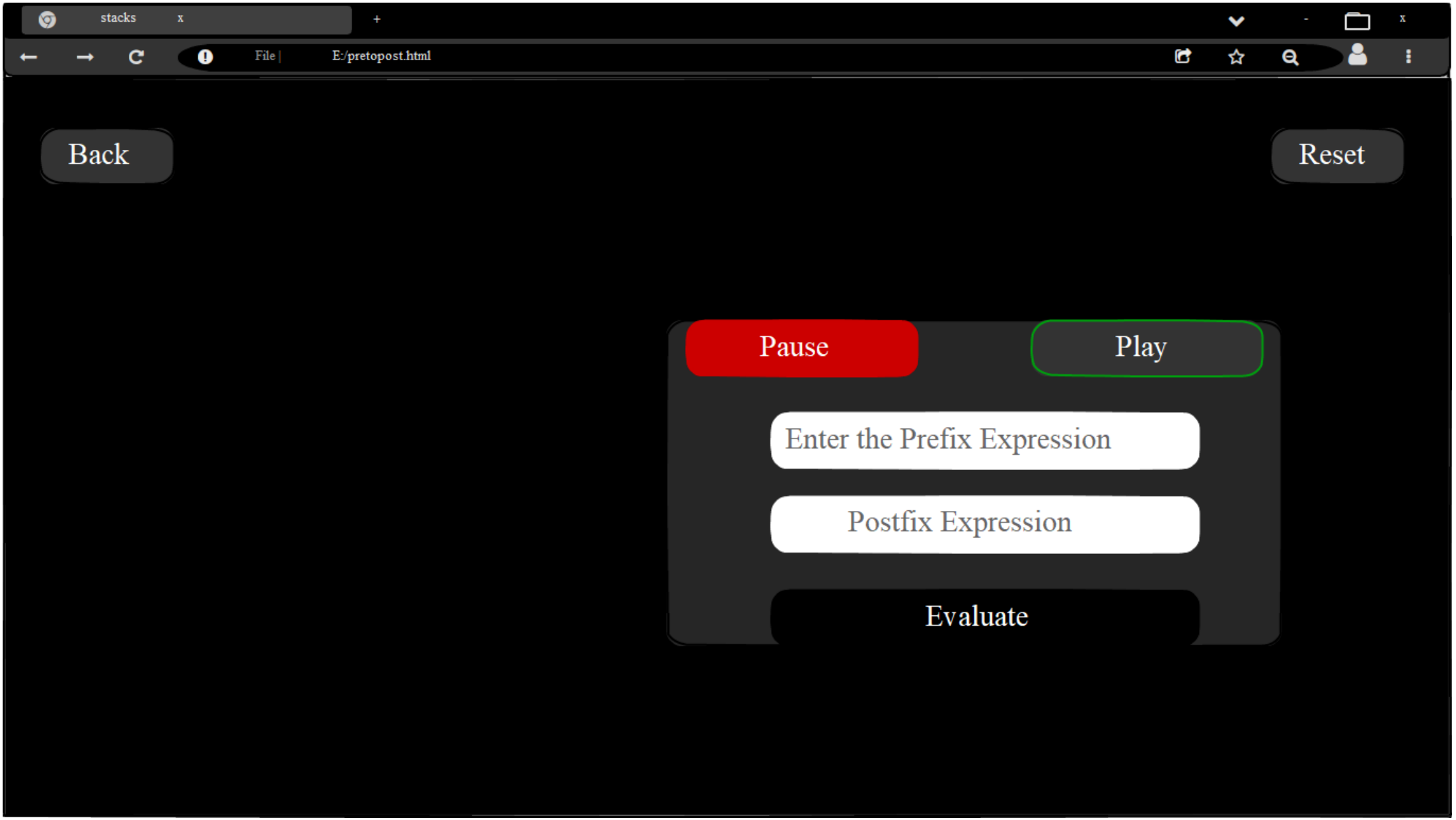
Play

(A+B)*C-D

DC

Evaluate


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

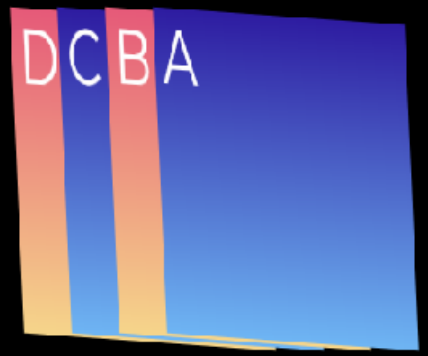

stacks
x
+
File |
E:/pretopost.html
Back
Reset
Pause
Play
Enter the Prefix Expression
Postfix Expression
Evaluate

stacks x

File | E:/pretopost.html

Back

Reset



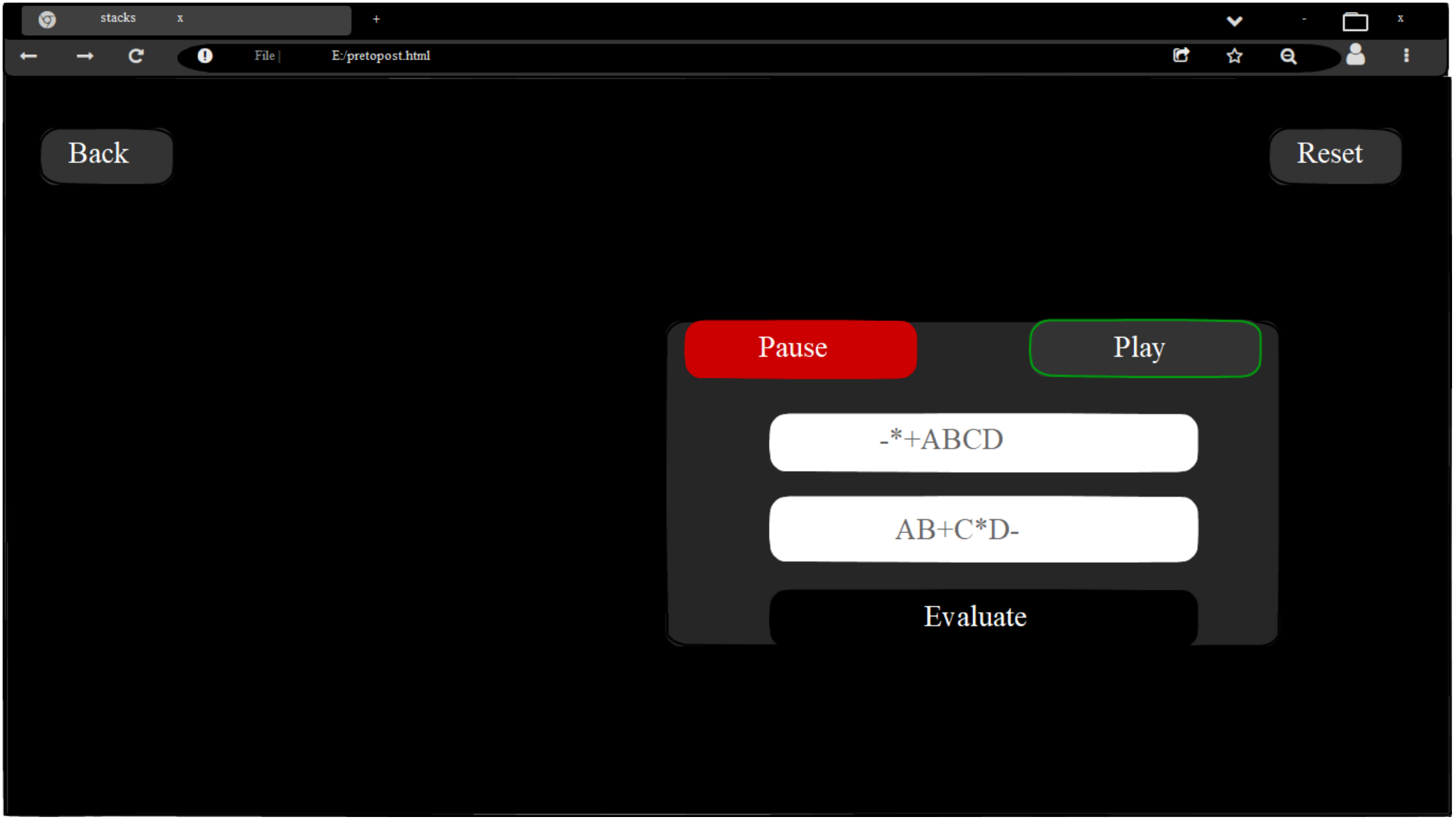
Pause

Play

-*+ABCD

DCB

Evaluate


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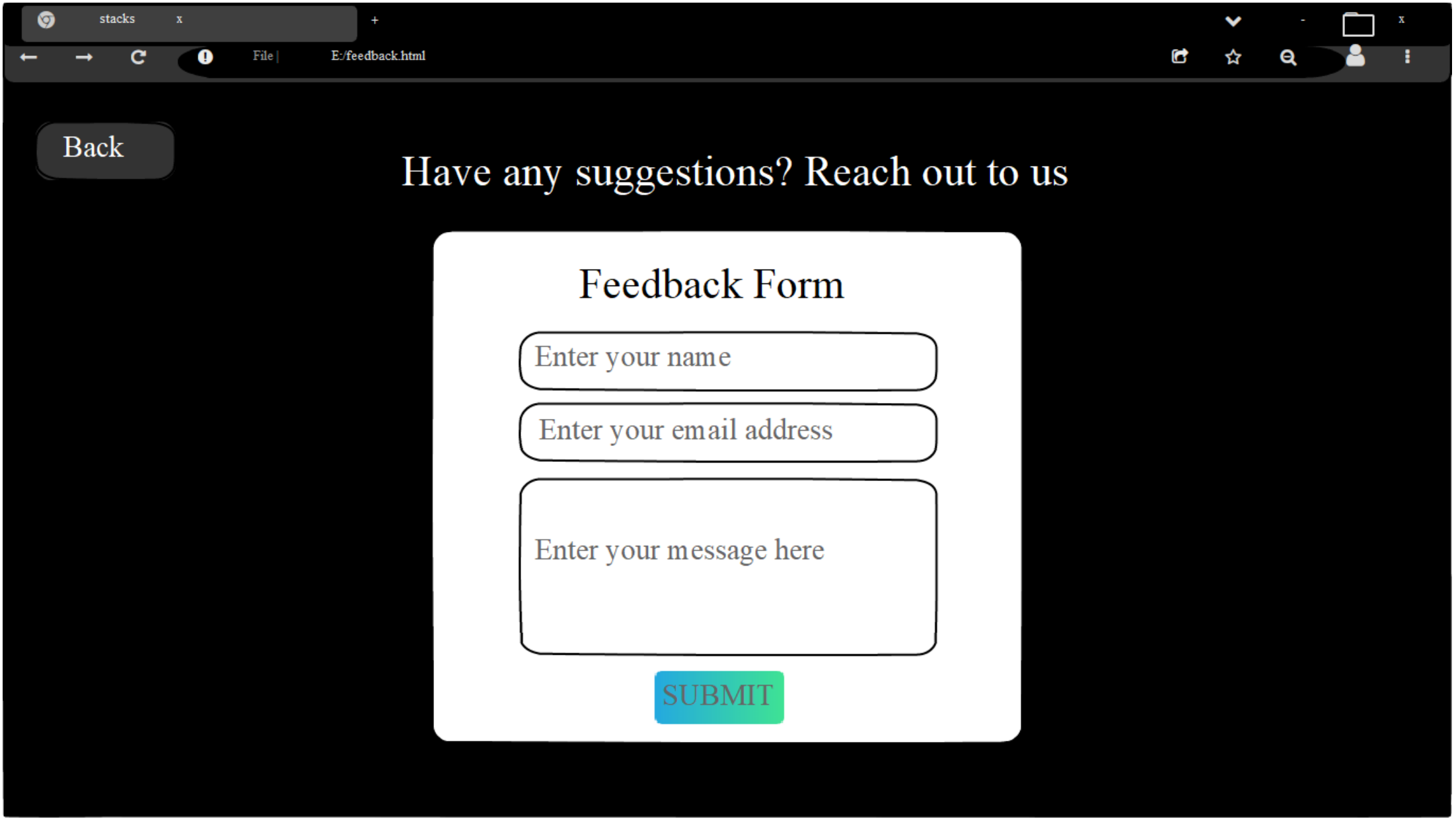
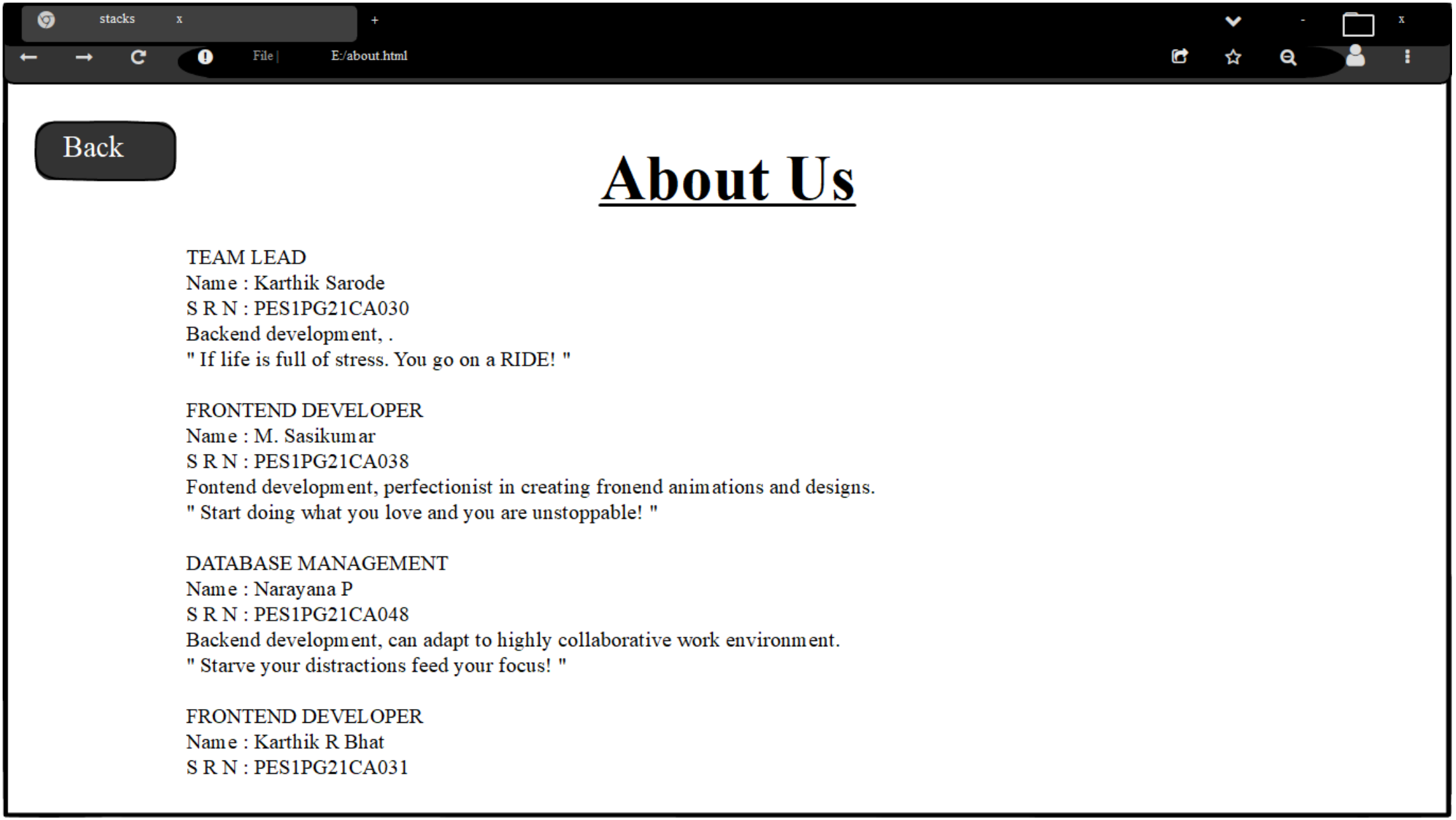
File |
E:/pretopost.html
Back
Reset
Pause
Play
-*+ABCD
AB+C*D-
Evaluate


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



About Us

TEAM LEAD
Name : Karthik Sarode
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Backend development, .
" If life is full of stress. You go on a RIDE! "

FRONTEND DEVELOPER
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Fontend development, perfectionist in creating fronend animations and designs.
" Start doing what you love and you are unstoppable! "

DATABASE MANAGEMENT
Name : Narayana P
S R N : PES1PG21CA048
Backend development, can adapt to highly collaborative work environment.
" Starve your distractions feed your focus! "

FRONTEND DEVELOPER
Name : Karthik R Bhat
S R N : PES1PG21CA031

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.
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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