

Superlit User Manual For Students

Abstract

This document serves as a guide to the `superlit` platform. This guide is meant for students of a university.

Superlit is a code evaluation platform powered with smart AI features. It helps conduct coding assignments and labs drastically more efficiently. It makes a significant effort to avoid plagiarism and has features to uphold design principles in code.

Contact For Feature Requests & Bug Fixes

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Terms Used & General Information

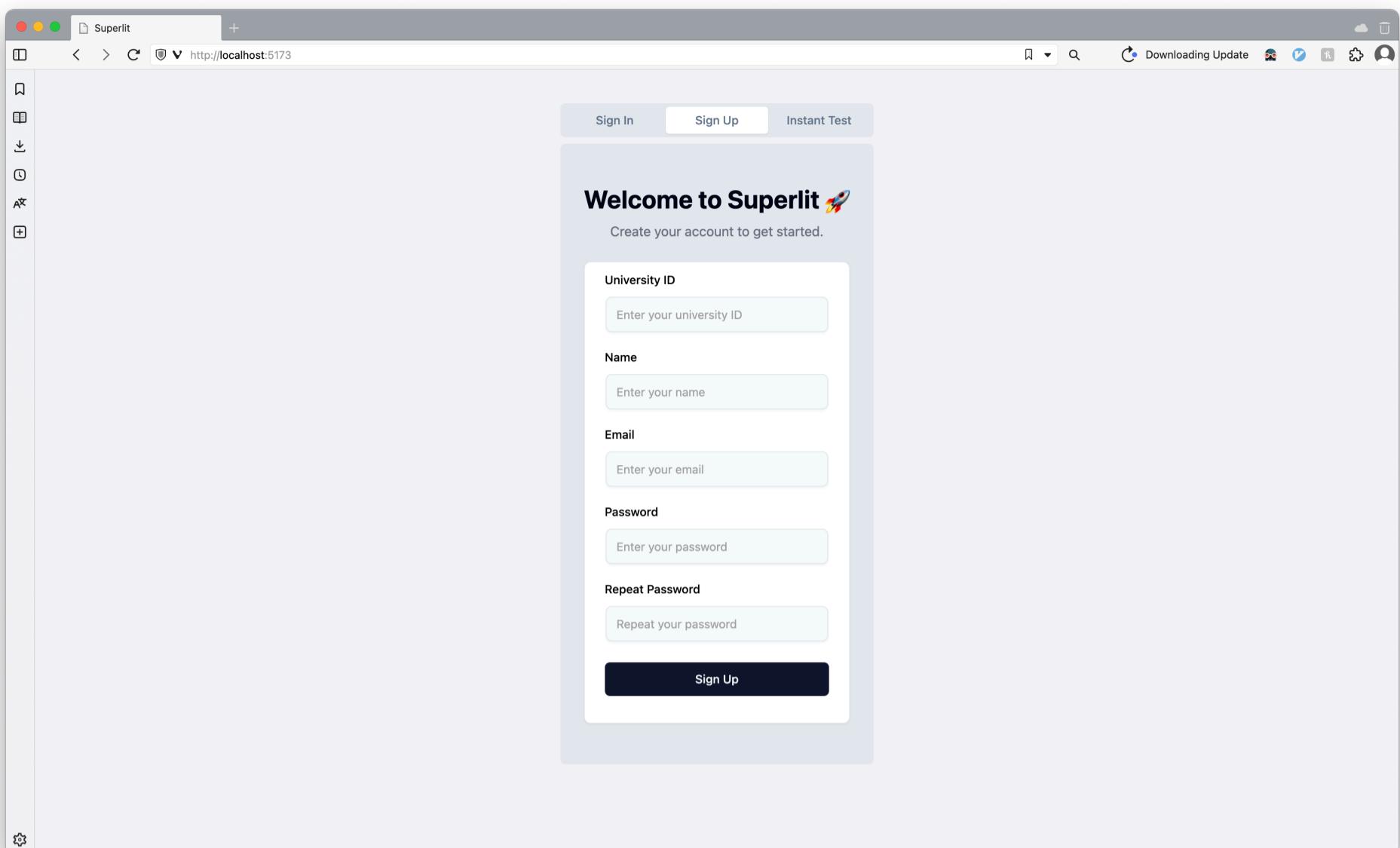
- The word `university ID` refers to the ID provided by the university. This can be employee ID for teachers and student ID for students.
 - The theme of the website follows the theme of your operating system. If you want a dark theme, switch your operating system's theme to dark mode.
-

Creating An Account

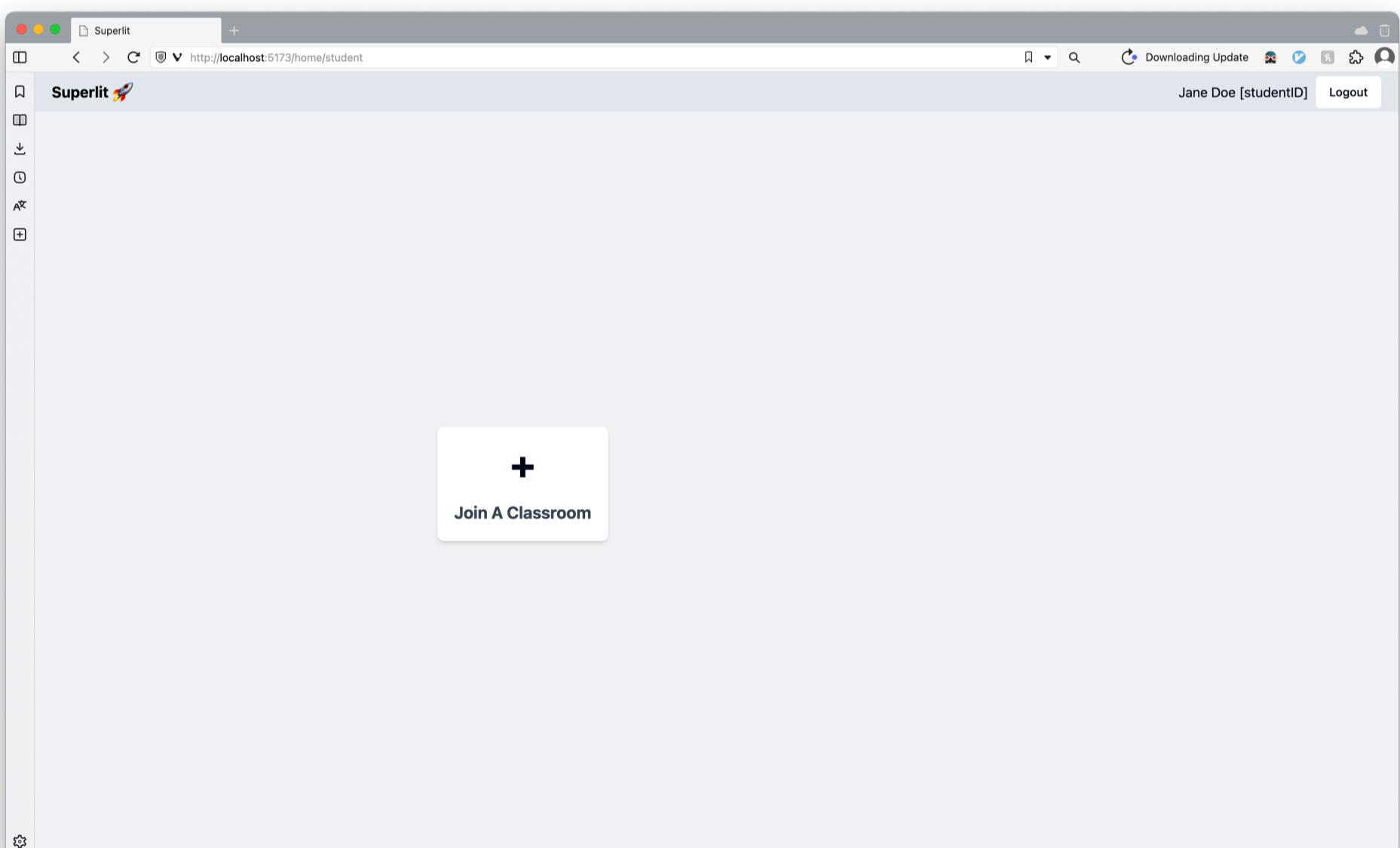
- Navigate to the following URL on your web browser:

`http://10.2.80.90/`

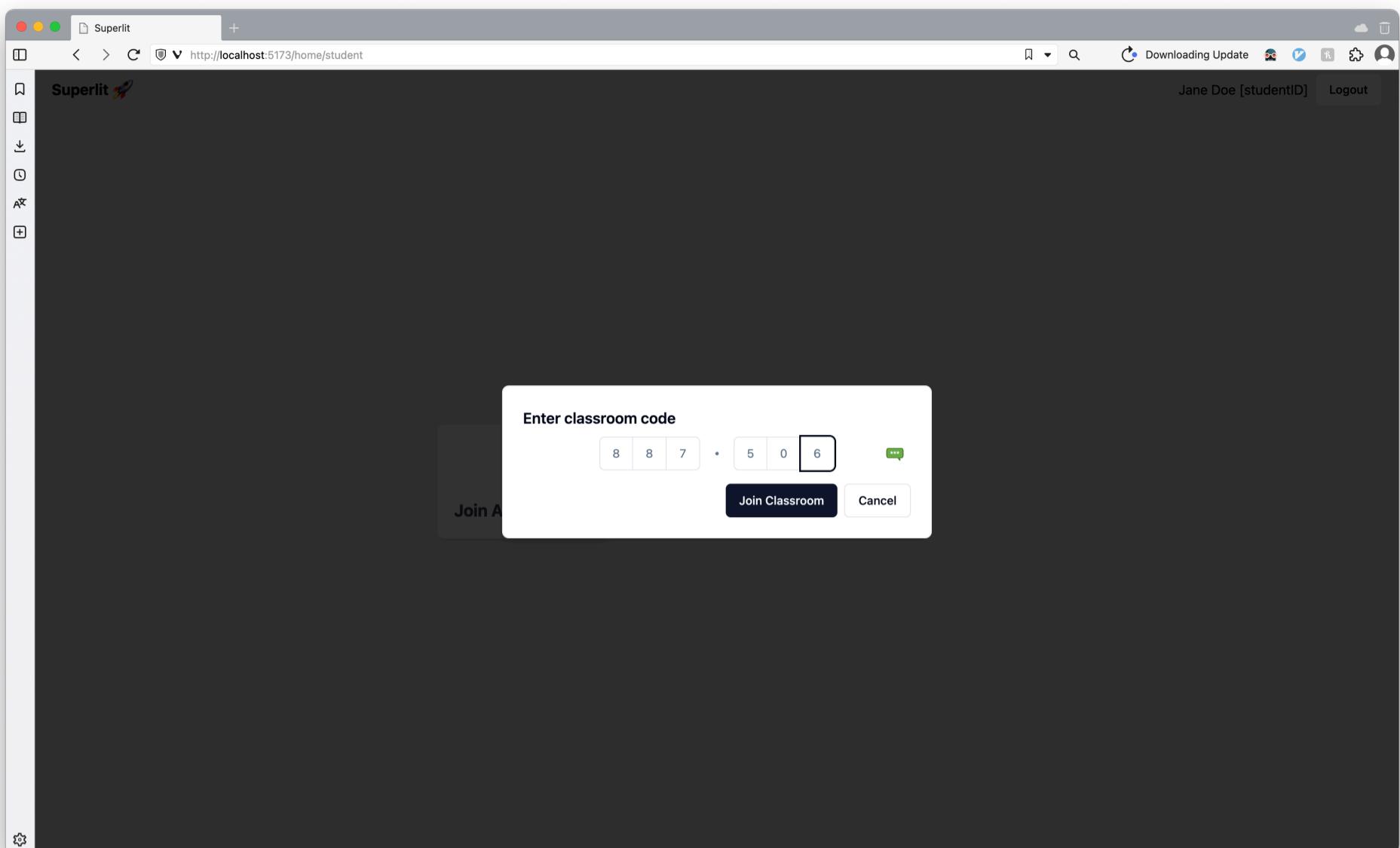
- Click on the signup tab and enter the details necessary. Use your university provided email address & university ID.



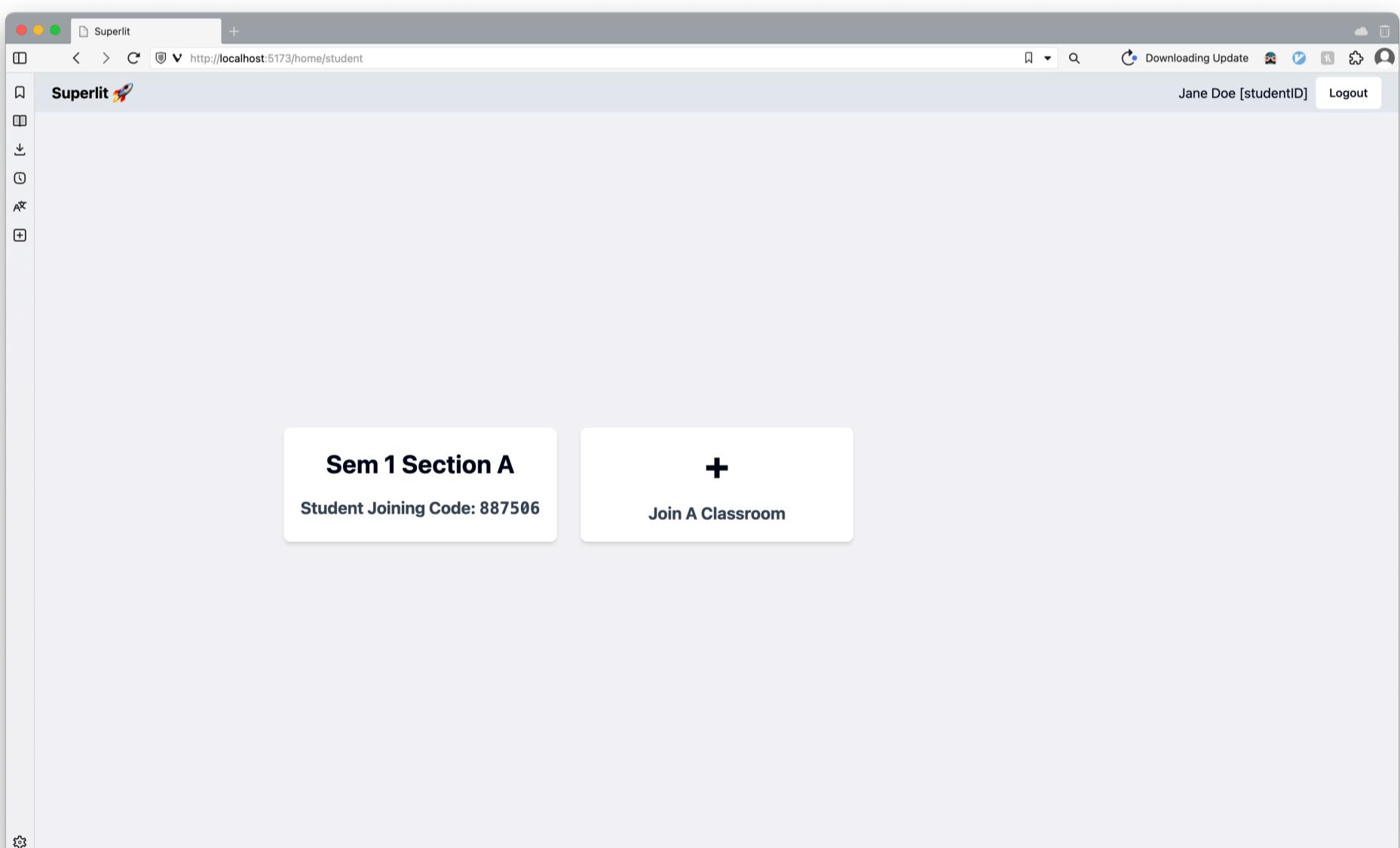
- Once you have created your account, you can sign in to it using the sign in tab.
- You will be greeted with the following page:



- At the beginning of every semester, you must join the classrooms of the courses you're taking.
- You join these classrooms by entering the 6-digit joining code of a particular classroom. This code will be shared to you by your teacher:



- After clicking on the `Join Classroom` button, you should see the classroom added in your home page:



Assignments

- On clicking the classroom card, you will see a list of assignments assigned in that classroom. For our example, we have only one:

Sem 1 Section A

Assignments

Name	Description	Start Time	End Time	Attempt	View Your Score
Lab-1	First Week - Print Hello World	1/8/2024, 12:00:00 pm	2/8/2024, 11:59:00 pm	Attempt	View Score

- Every assignment has a start & end time. You will be allowed to submit only between these times.
- Clicking on the `Attempt` button will take you to the assignment page.

Attempting An Assignment

Superlit

Question 1
Of 1

Hello World

Print 'hello world' n times recursively. Take the input number 'n' from the standard input.

Example Cases

Case 1

Input
2

Expected Output
hello world
hello world

Explanation
'hello world' is printed twice as the input

Press Escape key to exit fullscreen.

Case 1

Input
2

Expected Output
hello world
hello world

End Test AI Hint Run Submit

General

- The panel on the left is the questions panel. Your assignment might contain one or more questions. You can navigate between these questions and attempt them in any order you prefer.
- The question, and the example cases set by the teacher are displayed in this panel

Info

You can select a different language to answer in from the drop down in the top right corner. The options available to you are determined by your teacher

Run

- The panel on the bottom is for your input, expected output and produced output. When you hit the **Run** button, the code you have written is run and you will be able to see what output your program produced for the example cases.
- The tab names **Case 1**, **Case 2** etc will turn green or red in colour depending on if that example case was satisfied.
- You can use this to make sure your code produces the output you intended

SuperLit 🚀

Question 1
Of 1

Hello World
Print 'hello world' n times recursively. Take the input number 'n' from the standard input.

Example Cases

Case 1

Input
2

Expected Output
hello world
hello world

Explanation
'hello world' is printed twice as the input is 2

Code Editor (C)

```

1 #include <stdio.h>
2 #include <stdlib.h>
3
4
5 void recursiveHelloWorld(int n){
6     if(n == 0) return;
7
8     printf("hello world\n");
9     recursiveHelloWorld(n-1);
10 }
11
12 int main() {
13     int n;
14     scanf("%d", &n);
15
16     recursiveHelloWorld(n);
17 }
```

Bottom Panel:

- Case 1** (green tab)
- Input**: 2
- Expected Output**: hello world
hello world
- Your Output**: hello world
hello world
- Buttons**: End Test, AI Hint, Run, Submit

Submit

- When you're satisfied with the code you've written, you can hit the **Submit** button on the bottom panel.

⚠ Warning

You must submit each question individually. The **Submit** button is per-question and not for the entire test. You will still be able to continue your test after you submit. Multiple submissions are also allowed

- After hitting submit, there will be an AI generated viva. The questions in this viva will be based off of the code you submitted. This viva is to understand if you have written the code yourself and understand it. Your teacher might decide to use this viva score as they see fit:

The screenshot shows the SuperLit platform's AI Viva feature. At the top, it says "Question 1 Of 1". The main area displays a C code snippet for a recursive Hello World program. Below the code, the title "Hello World" is shown with the instruction: "Print 'hello world' n times recursively. Take the input number 'n' from the standard input." An "Example Cases" section shows "Case 1" with input "2" and expected output "hello world\nhello world". An "Explanation" box states "'hello world' is printed twice as the input is 2". To the right, a large white box contains the "AI Viva" section. It asks: "What is the base case of the recursive function 'recursiveHelloWorld'?". Four options are given: "when n is less than 0", "when n is equal to 1", "when n is equal to 0", and "when n is greater than 0". Another question asks: "What does the function 'recursiveHelloWorld' print in each recursive call?". Options: "hello world", "n times hello world", "goodbye world", and "nothing". A third question: "How does the code get the value of 'n' from the user?". Options: "using 'cin >> n'", "using 'scanf("%d", &n)'", "using 'gets(n)'", and "hardcoded in the code". A fourth question: "What happens if the user enters a negative number for 'n'?". Options: "The program will print 'hello world' -n times.", "The program will enter an infinite loop.", "The program will print nothing.", and "The program will crash.". At the bottom right of this box is a "Submit" button.

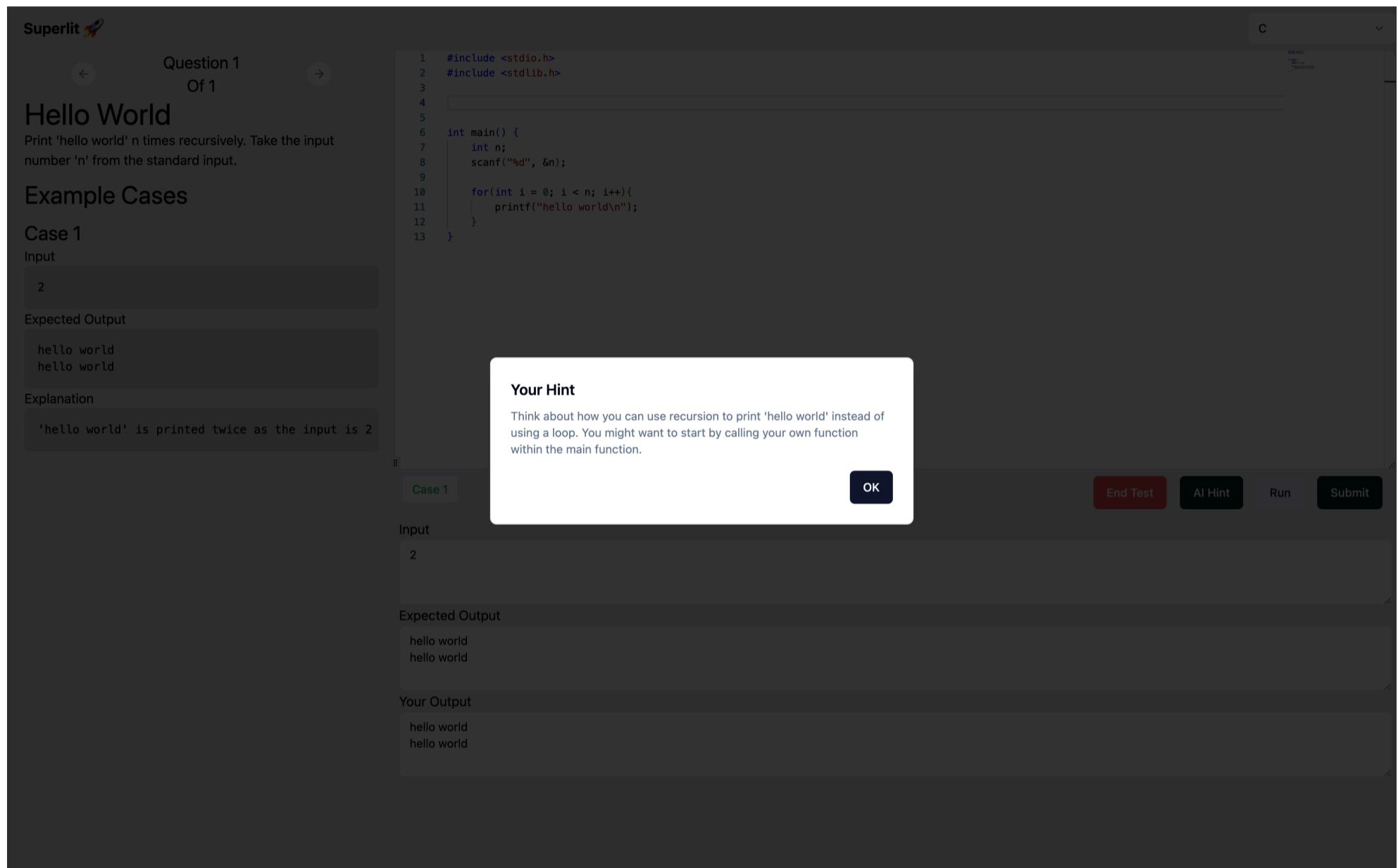
- After the viva, you will be shown how much you scored on the question (excluding the viva) along with how many test cases you passed:

The screenshot shows the SuperLit platform after a successful code submission. A central modal dialog box is titled "Success" and contains the message: "Your code has been submitted successfully. You scored 10 points on this question while passing 3 out of 3 test cases. Submit the other questions if you haven't already." At the bottom right of the dialog is an "OK" button. The background shows the "Hello World" question page with the same code, example cases, and explanation as the previous screenshot. The "Expected Output" and "Your Output" fields both show "hello world\nhello world". Buttons at the bottom right include "End Test", "AI Hint", "Run", and "Submit".

- When you're done with all the questions, you can click on `End Test` to exit.

AI Hint

- This is a very helpful feature when you're stuck somewhere in your code and can't figure out what's wrong. When you click on this button, you will get an hint based on your current code, what test cases you've passed and what test cases you're failing.
- The AI hint feature also helps you to make sure that you have followed all of the constraints in the problem. For example, if I use an iterative approach instead of a recursive approach in the above problem and the question specifies to use a recursive approach, it will tell you to correct it.



Anti Plagiarism

- The test page is full screened to avoid plagiarism.
- **Do not exit the full screen.** It will be treated as plagiarism.
- There is a mechanism to detect if you switch to any other window or icon on your computer. You will be disqualified from the assignment if found cheating.
- Once the system has disqualified you, you will need to talk to your teacher to excuse you to attempt the assignment again
- You are allowed to copy and paste small lines of code to speed up your coding, but copying and pasting large chunks of code is not allowed. This will also be treated as plagiarism.

After The Test (Revising Your Scores)

- After the test, you can go back and revisit your answers and scores by navigating to your home page -> selecting a classroom -> clicking on the **View Score** button on the assignment you want to view the score for. You should reach this screen:

The screenshot shows a web browser window titled "Superlit" with the URL <http://localhost:5173/home/student/classroom/887506/assignment/2/scores>. The page is titled "Your Scores". A section for "1. Hello World" is displayed, asking to print "hello world" n times recursively. The "Your Code" section contains the following C code:

```
#include <stdio.h>
#include <stdlib.h>

void recursiveHelloWorld(int n){
    if(n == 0) return;

    printf("hello world\n");
    recursiveHelloWorld(n-1);
}

int main() {
    int n;
    scanf("%d", &n);

    recursiveHelloWorld(n);
}
```

The "Test Cases" section shows "Case 1 Passed", "Case 2 Passed", and "Case 3 Passed". In the top right corner, there is a yellow box labeled "Not AI Verified" and a green box labeled "Viva: 3/4". The total score is listed as "10".

- Here, you'll be able to see the information highlighted above and the total score on that assignment.

⚠️ Warning

Make sure to `logout` after you're done with your test if you're using a public computer, like a lab computer. If this is not done, then the next person that uses this computer will have access to your superlit account. This is not required if you're using superlit on your own laptop.

AI Verification

- You'd have noticed the yellow `Not AI Verified`
- This tag specifies if your code was vetted by an AI system which makes sure your code follows the design principles specified in the question. For example, in the given example question, we must use `recursion` to print `hello world` `n` times.
- When the `AI Verification` is done, this tag turns into either green or red depending on if your code meets the design requirements. For example, the following code uses iteration instead of recursion, so the AI

Verification says that it's verified incorrect:

The screenshot shows a web browser window for the Superlit platform. The URL is <http://localhost:5173/home/student/classroom/887506/assignment/2/scores>. The page title is "Your Scores". A section titled "1. Hello World" contains the following text: "Print 'hello world' n times recursively. Take the input number 'n' from the standard input." Below this is a code editor with the following C code:

```
#include <stdio.h>
#include <stdlib.h>

int main() {
    int n;
    scanf("%d", &n);

    for(int i = 0; i < n; i++){
        printf("hello world\n");
    }
}
```

The "Your Code" section has a tooltip "AI Verified - Incorrect | Why?" which is highlighted. To the right of the tooltip are the scores: "10" and "Viva: 3/4". Below the code editor is a "Test Cases" section with three green buttons: "Case 1 Passed", "Case 2 Passed", and "Case 3 Passed". At the bottom of the page, under "Total Score", is the value "10".

- It also tells you why if you hover over the tooltip that says `Why?`:

This screenshot is identical to the one above, but the "Why?" tooltip is now visible, containing the text: "The code does not use recursion to print 'hello world' n times as required by the constraint." The rest of the interface, including the code editor, test cases, and total score, remains the same.

- If you still have time before the assignment end time, you can attempt the question again and fix it:

Superlit

Back

Your Scores

1. Hello World

Print 'hello world' n times recursively. Take the input number 'n' from the standard input.

Your Code

```
#include <stdio.h>
#include <stdlib.h>

void recursiveHelloWorld(int n){
    if(n <= 0) return;

    printf("hello world\n");
    recursiveHelloWorld(n-1);
}

int main() {
    int n;
    scanf("%d", &n);

    recursiveHelloWorld(n);
}
```

Test Cases

Case 1 Passed Case 2 Passed Case 3 Passed

Total Score **10**

AI Verified - Correct Viva: 4/4

This screenshot shows a web-based programming assignment interface. At the top, it displays the URL <http://localhost:5173/home/student/classroom/887506/assignment/2/scores>. The main heading is "Your Scores". Below it, a section titled "1. Hello World" contains the assignment instructions: "Print 'hello world' n times recursively. Take the input number 'n' from the standard input.". A code editor shows the student's C code for the "Hello World" problem. The code uses recursion to print "hello world" n times, taking input from standard input. Below the code, a "Test Cases" section shows three green buttons: "Case 1 Passed", "Case 2 Passed", and "Case 3 Passed", indicating all test cases passed. At the bottom, a summary shows a "Total Score" of 10, with a note "AI Verified - Correct" and a "Viva: 4/4". The interface has a clean, modern design with a light gray background and white text.