

Backend Development- Week6

Week 6

▼ CP Question-

Question- Add two numbers represented as Linked Lists

Given the heads of two non-empty linked lists representing two non-negative integers. The digits are stored in reverse order, and each of their nodes contains a single digit. Add the two numbers and return the sum as a linked list.

Examples:

Input Format:

(Pointer/Access to the head of the two linked lists)

num1 = 243, num2 = 564

l1 = [2,4,3]

l2 = [5,6,4]

Result: sum = 807; L = [7,0,8]

Explanation: Since the digits are stored in reverse order, reverse the numbers first to get the original number and then add them as $\rightarrow 342 + 465 = 807$.

▼ Coding Challenge-

- Validate a password based on length.
- Build a simple calendar application where users can add, edit, and delete events.
- Design a system that recommends movies based on user preferences and ratings.

Plus++

Submit Project #2 (Mandatory)

▼ Bonus-

- Create a set of microservices that communicate via events, allowing for scalable and decoupled application components.
- Develop a backend for a secure voting system using blockchain technology to ensure transparency and tamper-proofing.