**Goal:** To design a wireless network with mobile nodes(drones) which utilizes reconfiguration mechanisms of a network.

**Introduction:**

A Content Delivery Network (CDN) is a network containing data centers and proxy servers. The aim of the CDN is to provide high availability of the service. This task is fairly achievable with engineering advancement in a wired network, but when it comes to wireless network with mobile nodes, the challenge of reconfiguration requires a different perspective in achieving similar goal. The aim here is to design a system with wireless network and mobile nodes which provides continuous service and is fault tolerant. Since the nodes are mobile in a wireless environment, and different factors come into play, the challenge of reconfiguring becomes much more challenging. To top it all, the limitation of a mobile node like limited processing power, limited power, and limited storage also adds up to the problem. This system design is an attempt to solve the availability problem, addressing various factors that may affect the service.

**Procedure/Simulation:**

A

**Mathematical Expression:**

**Challenges:**

**Conclusion:**