QUESTIONS
(CHOOSE ANY ONE)

1. Design a weather forecasting app: Participants could design an app that provides users with real-time weather updates and alerts. The app should include features like the ability to customize location and notification preferences, and support for different types of weather data like temperature, precipitation, and wind speed.

Current Softwares/ Apps that can be used for reference:

1. AccuWeather
2. Weather Underground
3. Dark Sky
4. The Weather Channel
5. WeatherBug
6. Weather Pro
7. Yahoo Weather

2. Design a disaster response system: Participants could design a system that coordinates the response to a natural disaster, such as a hurricane or earthquake. The system should include features like a map showing the affected area, a way for volunteers to sign up and be dispatched to help, and a way to track resources like food and water.

Current Software/ Apps that can be used for reference:

1. Sahana Eden github
2. Federal Emergency Management Agency (FEMA)
3. Google Crisis Response
4. DisasterAWARE
5. Hazus
6. AlertNet

3. Design a transportation management system for a city: Participants could design a system that helps a city plan and coordinate its transportation infrastructure, including buses, trains, and bike sharing. The system should include features like route planning, real-time tracking, and the ability to integrate with other modes of transportation.

Current Software/ Apps that can be used for reference:

1. Citymapper
2. Google Maps
3. Moovit
4. Transit
5. Waze
6. Rapdio
7. NextBus

SYSTEM DESIGN RESOURCES

COURSES:

1. https://www.udemy.com/course/case-studies-for-system-design-interviews/

2. https://www.udemy.com/course/system-design-fundamentals/

BLOGS:

1. https://www.enjoyalgorithms.com/system-design/

2. https://www.educative.io/blog/complete-guide-to-system-design

3. https://abhikmitra.github.io/blog/sys-des/

YOUTUBE VIDEOS / PLAYLISTS:

1. https://www.youtube.com/playlist?list=PLTCrU9sGyburBw9wNOHebv9SjlE4Elv5a

2. https://www.youtube.com/playlist?list=PLMCXHnjXnTnvo6aISjVkgxV-VH6EPyvoX

3. https://www.youtube.com/watch?v=m8Icp_Cid5o

4. https://www.youtube.com/watch?v=hmkF77F9TLw&t=10s