Design a gRPC Protobuf task list – Protobuf OrderMessage

```
syntax = "proto3";
message OrderMessage {
   enum Status {
     Queued = 0;
     Processing = 1;
     Completed = 2;
     Failed = 3;
   enum Equipment {
     Desktop = 0;
     Keyboard = 1;
     Mouse = 2;
     Webcam = 3;
     Monitor = 4;
```

Design a gRPC Protobuf task list – Protobuf OrderService

```
Cont...
message OrderMessage {
  string order id =1;
  string created by =2;
  string status = 3;
  string created at =4;
  repeated Equipment equipment = 5;
Service OrderService {
    rpc Create (OrderMessage) returns (OrderMessage);
```

gRPC Protobuf – Comparison of tradeoffs with using protobufs versus JSON

Protobuf Pros:

- Small payload
- Typesafe
- HTTP/2 protocol

Protobuf Cons:

Strict

JSON Pros:

- Flexible
- Universal

JSON Cons:

- Higher payload
- Needs 3rd party libs for type checking (Python -> marshmallow)