# Instructions

Attached, please find a console application whose main purpose is to convert the formats.

**Prepare:**

1. Please find at least 5 potential code issues and explain the reason behind it.

2. Refactor the app to allow:

a. Work with documents of various storages, e.g., filesystem, cloud storage, HTTP (HTML read-only), etc. Implement just one of them but be sure that implementation is versatile adding other storages.

b. Be capable of reading/writing different formats. Implement XML and JSON format but be sure that implementation is versatile for adding more formats (YAML, BSON, etc.).

c. Build the app in a way to be able to test classes **in isolation**

d. Be able to add new formats and storages in the future to have **none** or **minimal impact** on the existing code.

e. Be able to use any combination of input/output storages and formats (e.g., read JSON from the filesystem, convert to XML and upload to cloud storage)

* We will appraise the design of a given code that should match the **production application's quality.**Thus, imagine this application as a system ready for feature development (adding new storages or formats).
* Tests should be written to demonstrate your skills, and there is no need to cover everything.
* Please upload your homework to GitHub or other storage and send us a link.