

## **These are the requirements for Homework 1**

### **1. Explain the stages of the Software Development Life Cycle (SDLC).**

You need to provide a general explanation of what happens at the **team level** during each stage.

The stages that must be explained are:

- **Requirement analysis (Planning)**
- **Design**
- **Development**
- **Testing**
- **Deployment**

**2. For each SDLC stage, explain what QA (Quality Assurance) is responsible for or what activities the QA team undertakes.**

### **3. We have the following environments:**

- **dev**
- **test**
- **staging**
- **production**

Describe what **activities and types of testing** are performed in each of these environments.

Think about where to run **unit tests, manual functional testing, regression testing, smoke testing**, etc.

You must explain **what kind of testing** is done, **where** it is executed, and **why** it is done in that specific environment.