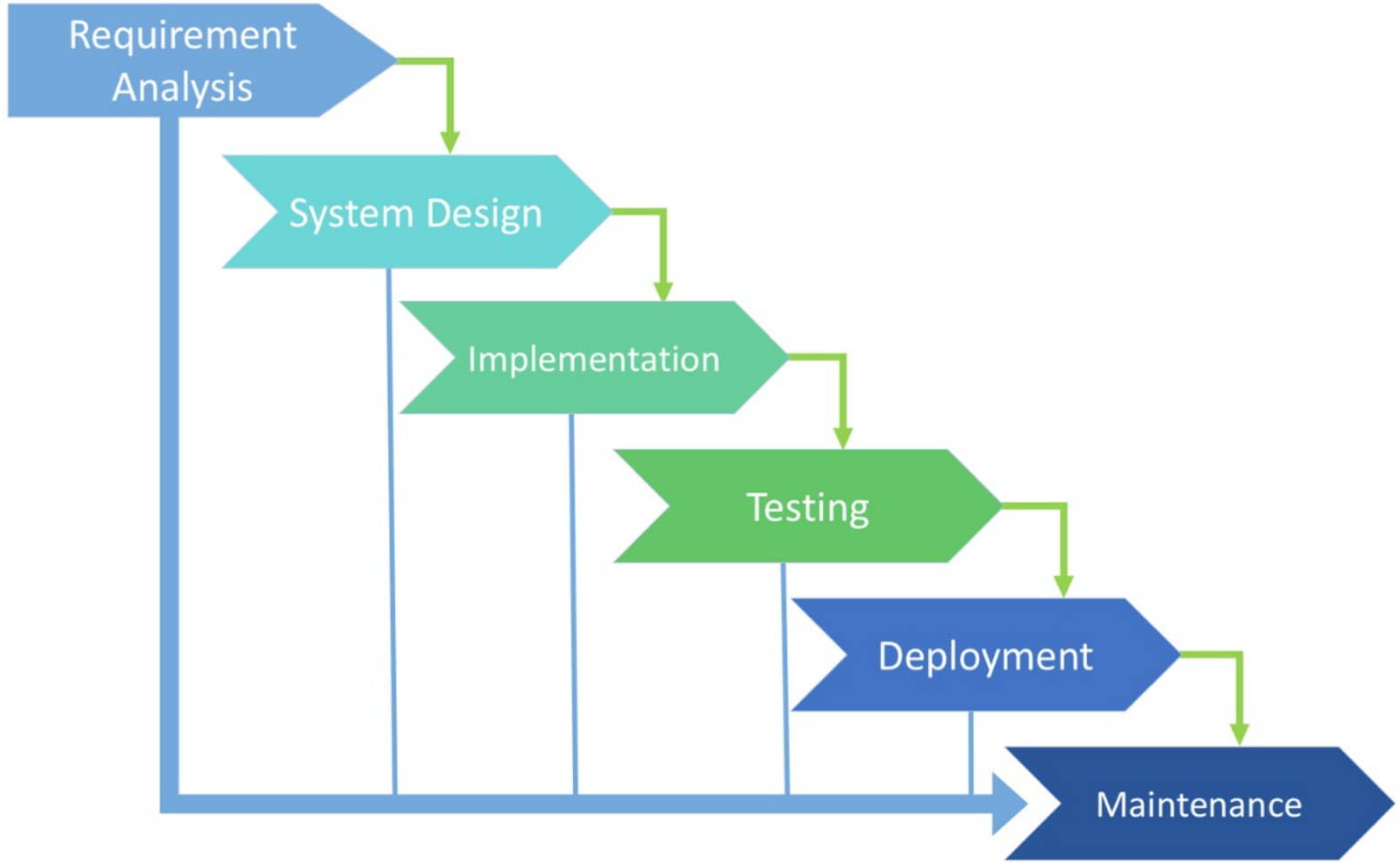
Software Development life Cycle(SDLC)

SDLC

⇢ Stands for **Software Development Life Cycle**

The Software development life cycle consists of the following phases.

1. Requirement Analysis
2. Design
3. Coding / Implementation
4. Testing
5. Deployment
6. Maintenance


Requirement Analysis
System Design
Implementation
Testing
Deployment
Maintenance

Requirement Analysis

- **Requirement Analysis** is the first phase of SDLC and it starts as soon as the SRD/SRS is shared with the **testing** team.
- The Software Requirements Document (**SRD**), also known as the Software Requirements Specification (**SRS).**

System Design

- The **system and software design** documents are prepared as per the requirement specification document. This helps define overall system architecture.
- Once the **design** is approved, the Development Team begins the Development side.

Coding/Implementation

- In this **phase**, developers start build the entire system by writing code using the chosen programming language. In the **coding phase**, tasks are divided into units or modules and assigned to the various developers.
- It is the longest **phase** of the **Software Development Life Cycle**

Testing

⇢ Once the software is complete, and it is deployed in the testing environment. The **testing team** starts testing the functionality of the entire system. This is done to verify that the entire application works according to the customer requirement.

Deployment

- Once the software testing phase is over and no bugs or errors left in the system then the final **deployment process** starts. Based on the feedback given by the project manager, the final software is released and checked for deployment issues if any.

Maintenance

- Once the system is deployed, and customers start using the developed system, following 3 activities occur

- Bug fixing - bugs are reported because of some scenarios which are not tested at all
- Upgrade - Upgrading the application to the newer versions of the Software
- Enhancement - Adding some new features into the existing software