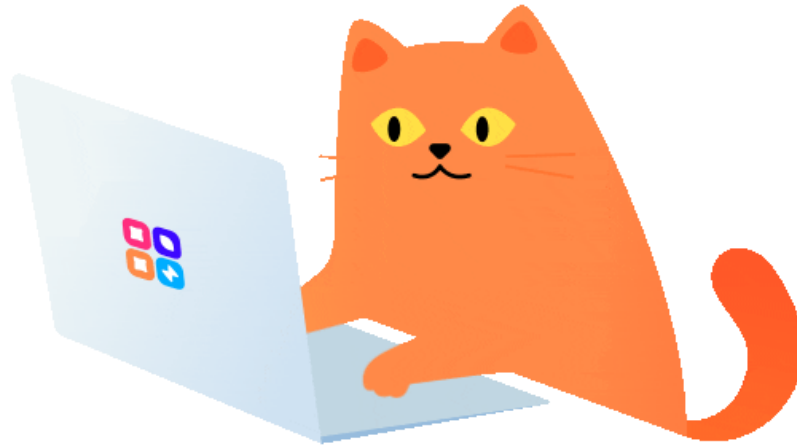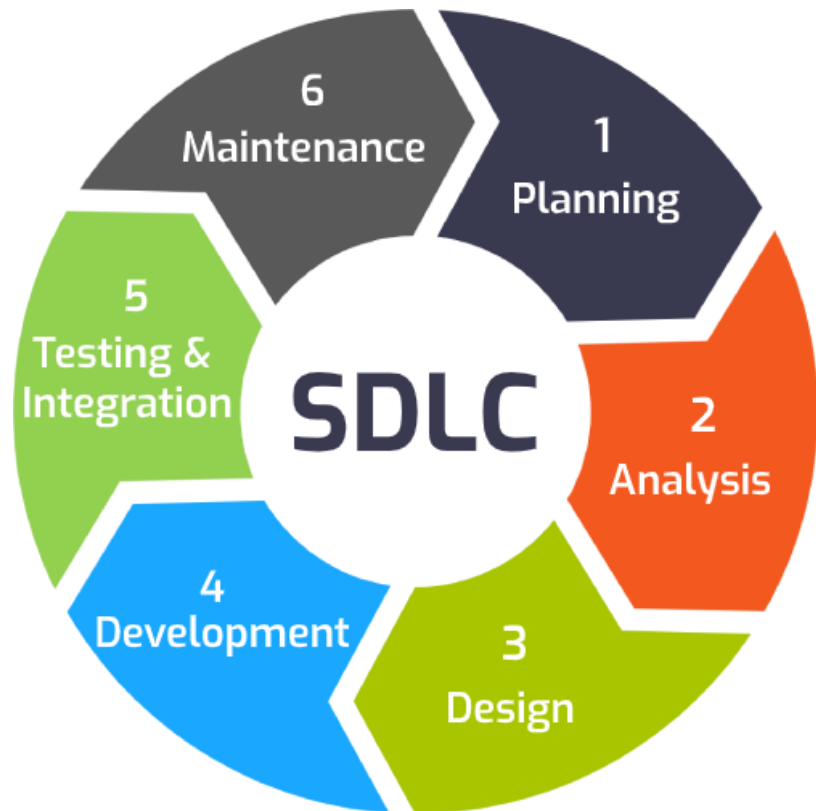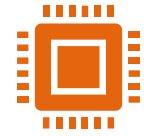# SOFTWARE DEVELOPMENT LIFE CYCLE

SOFTWARE DEVELOPMENT LIFE CYCLE

Objective: Provide a predictable framework of procedures designed to identify all requirements about functionality, cost, reliability, and delivery schedule and ensure that each are met in the final solution.
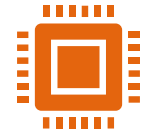
SOFTWARE DEVELOPMENT LIFE CYCLE

Planning

Determine whether information involved in the project requires protection,

Any information that is handled by the application needs a value assigned by its owner

- Define the scope
- Determine solutions
- Cost
- Time

SOFTWARE DEVELOPMENT LIFE CYCLE

Analysis

Requirements could be derived from a variety of sources such as evaluating competitor products for a commercial product to surveying the needs of users for an internal solution. In some cases these requirements could come from a direct request from a current customer.

- Information is collected from the customer
- Software Requirement Specification document (SRS)
- Purpose of the product.
- Meetings

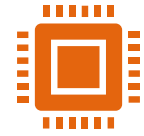# SOFTWARE DEVELOPMENT LIFE CYCLE
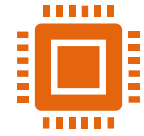
Design

In this process question like how the software will satisfy all functional and security goals.

- internal behavior and operations
- Software to specific requirements
- Hardware

SOFTWARE DEVELOPMENT LIFE CYCLE

Development

Implementation/Coding starts once the developer gets the Design document. The Software design is translated into source code. All the components of the software are implemented in this phase. The Develop phase involves writing the code or instructions that make the software work.

- Research and Study
- Tickets
- Start of production / Coding

SOFTWARE DEVELOPMENT LIFE CYCLE
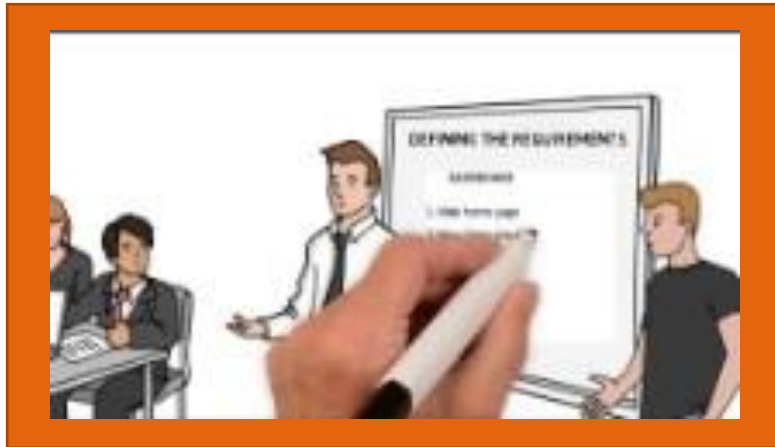
Testing & Integration/Deployment

In the Test/Validate phase, several types of testing should occur, including ways to identify both functional errors and security issues. Once the product is tested, it is deployed in the production environment

- Software is tested thoroughly and any defects found are assigned to developers to get them fixed.kets
- Retesting, regression testing is done until the point at which the software is as per the customer's expectation.

SOFTWARE DEVELOPMENT LIFE CYCLE

Maintenance

After the deployment of a product on the production environment, maintenance of the product i.e. if any issue comes up and needs to be fixed or any enhancement is to be done is taken care by the developers.

VIDEOS

Advanced programming

REFERENCES

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- Chapter 8. Software Development Security
- Chapter 10. The Software Life Cycle