Coding and Logic

Describe the functions of each stage of the application lifecycle management (ALM)

Application Lifecycle Management

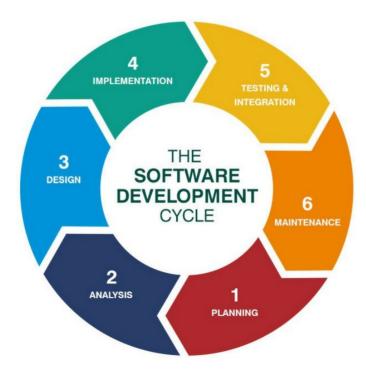
- application development phases
 - Requirements
 - Design
 - build
- service management phases
 - Deploy
 - Operate
 - optimise
- application management

ALM Definition

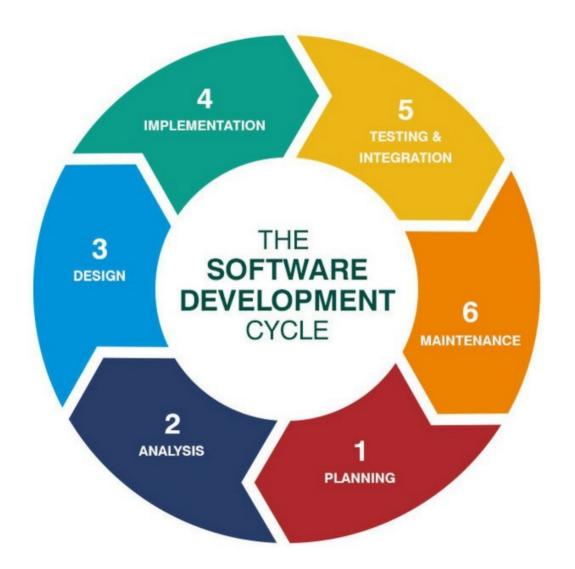
 Application Lifecycle Management covers the entire history of an application, utility, component or software solution, from the initial idea to its removal from an organization's systems

Software Development Life Cycle

Part of ALM – Similar to but not the whole thing







Requirements

- Requirements Definition of the system requirements to allow the developer(s) to understand what is required of the software system.
- Establish customer expectations and project scope
- In larger system all development teams must communicate to develop system interfaces.
 - Collect information and inventories of existing services.
 - Establish the business case for implementing the service

Analysis

 The requirements are analysed for financial viability, operational capability and technical feasibility of the system

Design

- Design:
- detailed definition of inputs and outputs
- Detailed definition of processing
- Uses tools such as UML (Unified Modelling Language).

Coding

- Writing the software to implement the design
 - quality assurance
 - Inspections
 - unit testing
 - integration testing.

Testing

- Once Coding is complete, use system tests to discover as many software errors as possible.
- Before the software is passed to the client.
- Client can carry out Customer Acceptance Testing (CAT).

Service Management

Deployment

- The software system is installed at the customers target site
- If part of a larger system, it may be an upgrade

Operation

- Starts as soon as the software is installed
- Monitor how successful the implementation is
- Close contact with customer
- Optimise for the customer

Maintenance

- Required over the life of the software
- Repair fix a fault identified by the client
- Adapted use the current features to fulfil new requirements
- Perfective add new features to improve system performance and/or functionality