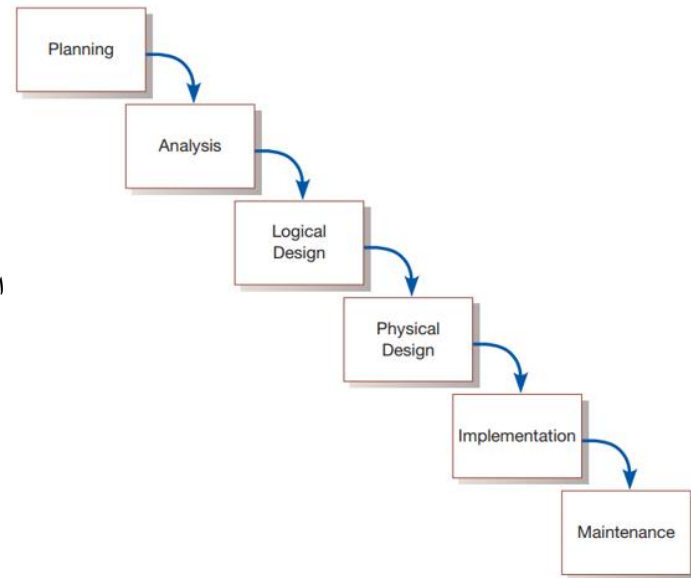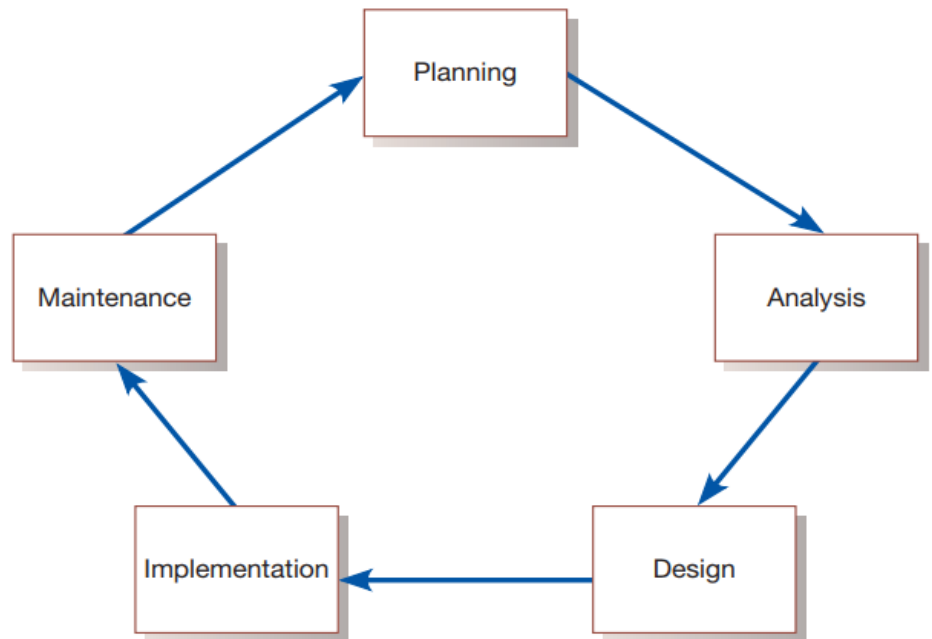# Traditional Waterfall SDLC

- Hard to change requirements   من الصعب تغيير المتطلبات
- No users interaction   لا يوجد تفاعل مع العميل
- Success is all about not exceeding task deadline but not quality.

النجاح في هذه الطريقة يعني عدم تجاوز الموعد النهائي للمهام وليس الجودة

Planning → Analysis → Logical Design → Physical Design → Implementation → Maintenance

Systems development life cycle (SDLC)

Planning → Analysis → Design → Implementation → Maintenance → Planning

- Project **Initiation** tasks

Project Initiation tasks
مهام بدء المشروع
	• Establish : إنشاء
	  1. Initiation team فريق البدء
	  2. Relationship with customer العلاقة والتواصل مع العميل
	  3. Project initiation plan خطة بدء المشروع
	  4. Management procedures إجراء الإدارة
	  5. Project management environment بيئة إدارة المشروع
	  6. Project workbook دليل المشروع (أو استمارة المشروع)

- Project **Planning** tasks

Project Planning Tasks مهام تخطيط المشروع	1. Describe project scope, alternatives, feasibility. وصف **نطاق** المشروع **والبدائل والجدوى** 2. Divide project into tasks. تقسيم المشروع إلى **مهام** 3. Estimate resource requirements and create resource plan. تقدير **احتياجات** ا لموارد وإعداد **خطة الموارد** 4. Develop preliminary schedule. تطوير **جدول زمني** أولي 5. Develop communication plan وضع خطة الاتصال والتواصل مع العميل/ أو الفريق 6. Determine standards and procedures. تحديد المعايير والإجراءات 7. Identify and assess risk. تحديد **وتقييم المخاطر** 8. Create a preliminary budget. إنشاء ميزانية **أولية** 9. Develop a statement of work. تطوير **بيان** عمل 10.Set baseline project plan تعيين خطة المشروع **الأساسية**

- Deliverables and Outcomes of PIP Phase

Deliverables and Outcomes of PIP المنتجات والنتائج من مرحلة PIP	**Business case** **حالة الأعمال** : تعريف المبررات لمشروعك مدعوما بالفوائد الاقتصادية والتكاليف ودراسة(جدوى) سواء كانت التنظيمية أو التقنية **Baseline Project Plan (BPP)** **خطة المشروع الأساسية** : تحتوي على أفضل تقدير لنطاق المشروع والفوائد والتكاليف والمخاطر ومتطلبات الموارد **Project Scope Statement (PSS)** **بيان نطاق المشروع** : عبارة عن ملف أو وثيقة تصف ما سيسلمه المشروع للعميل، أو المخرجات والنتائج

Baseline Project Plan

All the information collected during project initiation and planning is collected and organized into a document called the Baseline Project Plan

Sections:
1) Introduction
2) System description
3) Feasibility assessment
4) Management issues

BASELINE PROJECT PLAN REPORT

1.0 Introduction
- A. Project Overview—Provides an executive summary that specifies the project's scope, feasibility, justification, resource requirements, and schedules. Additionally, a brief statement of the problem, the environment in which the system is to be implemented, and constraints that affect the project are provided.
- B. Recommendation—Provides a summary of important findings from the planning process and recommendations for subsequent activities.

2.0 System Description
- A. Alternatives—Provides a brief presentation of alternative system configurations.
- B. System Description—Provides a description of the selected configuration and a narrative of input information, tasks performed, and resultant information.

3.0 Feasibility Assessment
- A. Economic Analysis—Provides an economic justification for the system using cost-benefit analysis.
- B. Technical Analysis—Provides a discussion of relevant technical risk factors and an overall risk rating of the project.
- C. Operational Analysis—Provides an analysis of how the proposed system solves business problems or takes advantage of business opportunities in addition to an assessment of how current day-to-day activities will be changed by the system.
- D. Legal and Contractual Analysis—Provides a description of any legal or contractual risks related to the project (e.g., copyright or nondisclosure issues, data capture or transferring, and so on).
- E. Political Analysis—Provides a description of how key stakeholders within the organization view the proposed system.
- F. Schedules, Time Line, and Resource Analysis—Provides a description of potential time frame and completion date scenarios using various resource allocation schemes.

4.0 Management Issues
- A. Team Configuration and Management—Provides a description of the team member roles and reporting relationships.
- B. Communication Plan—Provides a description of the communication procedures to be followed by management, team members, and the customer.
- C. Project Standards and Procedures—Provides a description of how deliverables will be evaluated and accepted by the customer.
- D. Other Project-Specific Topics—Provides a description of any other relevant issues related to the project uncovered during planning.