Writing a Proposal

```
Writing a Proposal → Why
                   → Who
                   → What
                   → When
                   → Where
```
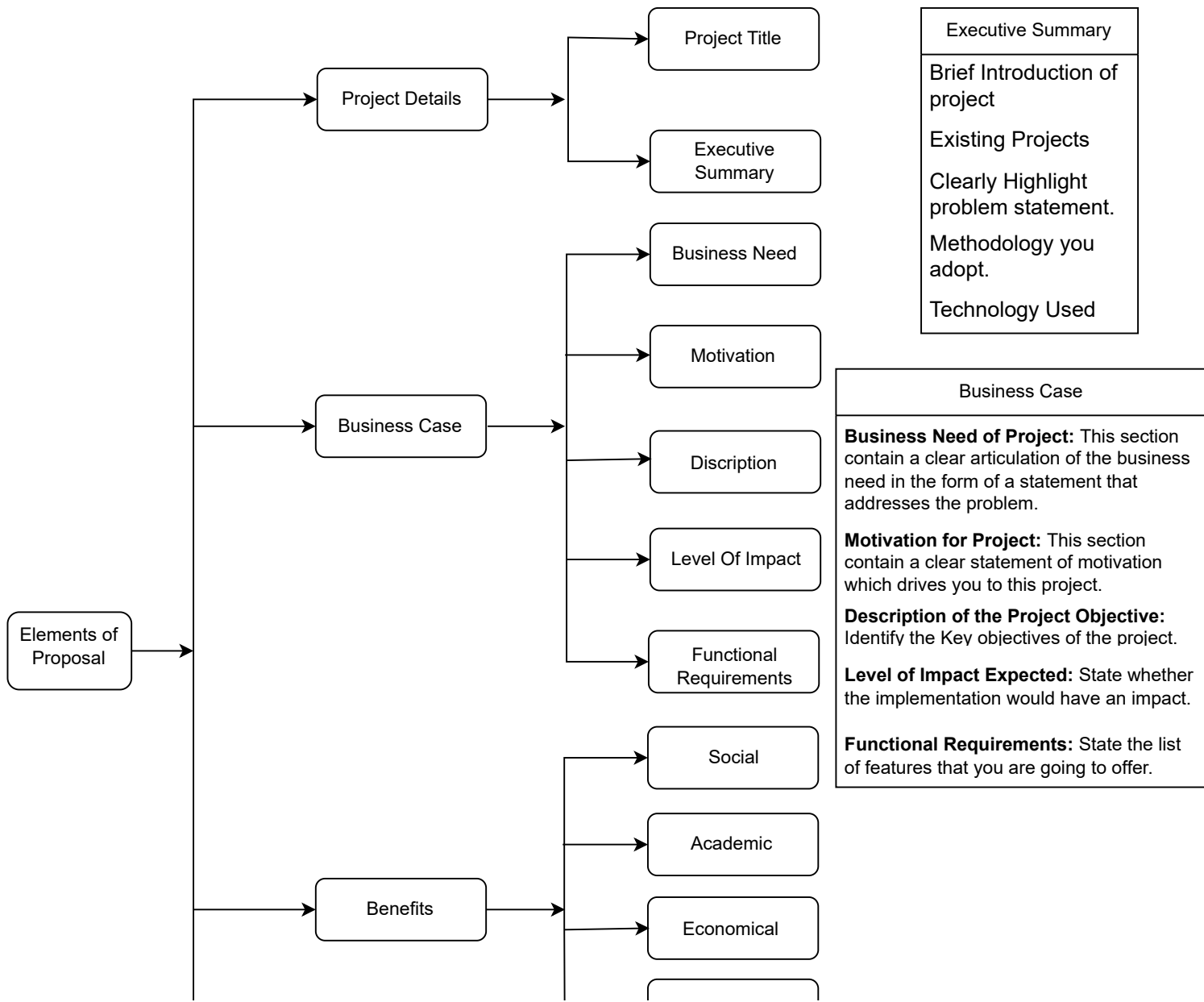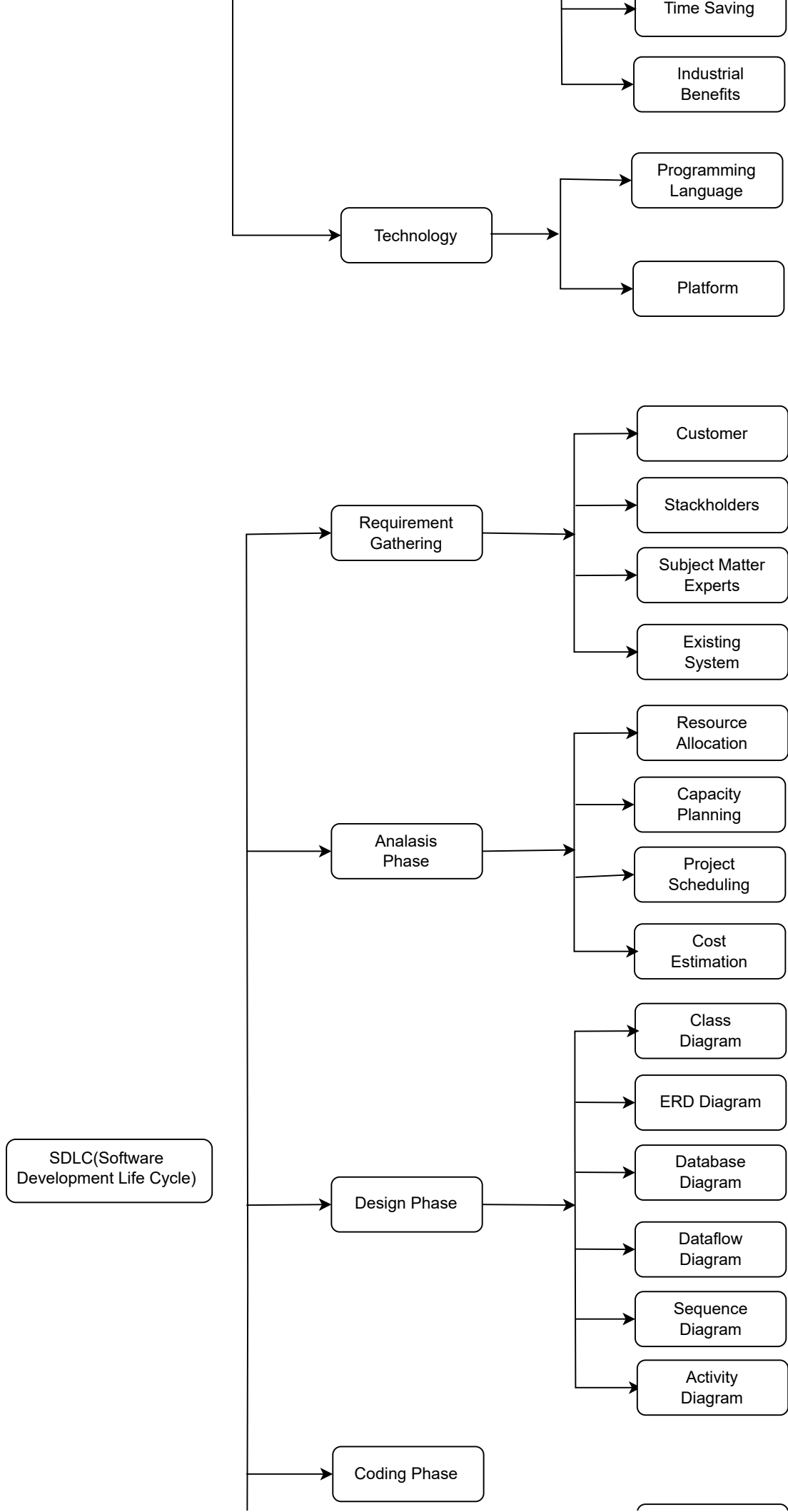
Writing a proposal

Why: Why there is a need to develop project?

Who:(Target audience**)** Who will use the project?

What: What are the Functional Requirements?

When:(Deadline**)** When the project will be completed (a rough estimate)?

Where:(Develop & Use**)** Where the project will be used after completion(e.g in school, in imanufacturing industry, in offices, in security departments.)

Elements of Proposal

```
Elements of Proposal → Project Details → Project Title
                                       → Executive Summary
                     → Business Case   → Business Need
                                       → Motivation
                                       → Discription
                                       → Level Of Impact
                                       → Functional Requirements
                     → Benefits        → Social
                                       → Academic
                                       → Economical
```

Executive Summary

Brief Introduction of project

Existing Projects

Clearly Highlight problem statement.

Methodology you adopt.

Technology Used

Business Case

Business Need of Project: This section contain a clear articulation of the business need in the form of a statement that addresses the problem.

Motivation for Project: This section contain a clear statement of motivation which drives you to this project.

Description of the Project Objective: Identify the Key objectives of the project.

Level of Impact Expected: State whether the implementation would have an impact.

Functional Requirements: State the list of features that you are going to offer.

Time Saving

Industrial
Benefits

Technology

Programming
Language

Platform

Technology
Programming Language: Which programming language you are going to use and state reason why this is best suited for project **Platform:** Desktop/Web/Mobile

Requirement
Gathering

Customer

Stackholders

Subject Matter
Experts

Existing
System

Analasis
Phase

Resource
Allocation

Capacity
Planning

Project
Scheduling

Cost
Estimation

Class
Diagram

ERD Diagram

Database
Diagram

Dataflow
Diagram

Sequence
Diagram

Activity
Diagram

SDLC(Software
Development Life Cycle)

Design Phase

Coding Phase

```
                                              ┌──────────────┐
                                          ┌──►│ Unit Testing │
                                          │   └──────────────┘
          ┌───────────────┐               │   ┌──────────────┐
     ─────►│ Testing Phase │──────────────┼──►│ Integration  │
          └───────────────┘               │   │  Testing     │
                                          │   └──────────────┘
                                          │   ┌──────────────┐
                                          └──►│ Functional   │
                                              │  Testing     │
                                              └──────────────┘

          ┌───────────────┐
     ─────►│ Deployment    │
          │  Phase         │
          └───────────────┘

          ┌───────────────┐
     ─────►│ Maintenance   │
          │  Phase         │
          └───────────────┘
```