Analysis and Design Document

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Revision History

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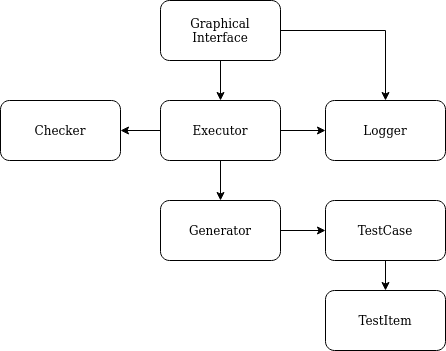
# Project Specification

This project will result in an application that will enable the user to create tests for competitive programming problems. The user will be able to interact with the graphical interface and without any code generate a set of tests and even run them on a solution.

# Elaboration – Iteration 1.1

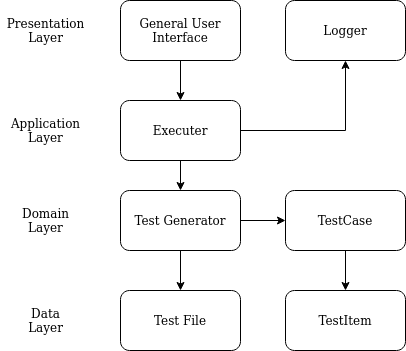
# Domain Model

Below I will present the domain model regarding the application.

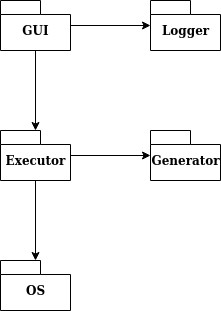


# Architectural Design

## Conceptual Architecture



## Package Design



## Component and Deployment Diagrams



# Elaboration – Iteration 1.2

# Design Model

## Dynamic Behavior

*[Create the interaction diagrams (1 sequence, 1 communication diagrams) for 2 relevant scenarios]*

## Class Design

*[Create the UML class diagram; apply GoF patterns and motivate your choice]*

# Data Model

*[Create the data model for the system.]*

# Unit Testing

*[Present the used testing methods and the associated test case scenarios.]*

# Elaboration – Iteration 2

# Architectural Design Refinement

*[Refine the architectural design: conceptual architecture, package design (consider package design principles), component and deployment diagrams. Motivate the changes that have been made.]*

# Design Model Refinement

## *[Refine the UML class diagram by applying class design principles and GRASP; motivate your choices. Deliver the updated class diagrams.]*

# Construction and Transition

# System Testing

*[Describe how you applied integration testing and present the associated test case scenarios.]*

# Future improvements

*[Present future improvements for the system]*

# Bibliography