Program Generator - Component Diagram

Template Manager

Template Files

Compiled files

Web Client Applcation

Run

Teacher

Serialized templates

REST API

Client side

Web Interface

Student

Image/text request
Answer check

Web-server

Template Management Logic

Program Generation Logic

Web query

Template Data Access

Program Data Access

Program Runner

Formatter

ImageGenerator

Compiler

Executor

Database

Stored Templates

Stored Program Data