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Выполнил: студент группы № ИВ2-22

Гребенников Дмитрий

Проверил: преподаватель

Харин Е.Н.

# Abstact

The report is made in 1 part and contains: pages — 6, words — 300, images — 1

Aim: to consolidate the practical skills of constructing a component diagram.

# Introduction

Currently, the creation of diagrams of software components is a mandatory step in software development.

The component diagram is developed for the following purposes:

* visualization of the general structure of the source code of the program system;
* specification of an executable version of the software system;
* ensuring the reuse of individual fragments of the program code;
* representation of the conceptual and physical schemas of databases.

## 1 Body of the Report

## 1.1 Component diagram

Let's make a diagram of video hosting components. This step is compulsory in software development.

Image 1 — Diagram

## 1.2 Components Description

UploadButton: View

Upload: Controller

Sends ‘upload’ request with video data to BridgeServer

SearchButton: View

SearchHandler: Controller

Contains a ‘search’ request. Processes the request by correcting grammatical errors using a third-party module. Makes a quick request to ServerBridge to generate hints for the user. After processing, sends the main request to ServerBridge

VideoPlayer: View

VideoPlayer: Controller

Implements video player functional

BridgeServer: Model

Provides a connection between client and required server.

In our case, depending on request type redirects to TranscodeServer or directly to MediaServer.

TranscodeServer: Model

Transcodes video data to supported format using a third-party module, upload output to available MediaServer

MediaServer: Model

Contains videos

# Conclusion

Practical skills in constructing component diagrams were obtained. Component diagrams help in software development. The main purpose of construction component diagram is visualization of the general structure of the source code of the program system.