Санкт-Петербургское государственное бюджетное

профессиональное образовательное учреждение

«Радиотехнический колледж»

ОТЧЕТ

по лабораторной работе № 3

«Построение диаграммы компонентов»

по дисциплине МДК.05.02

Разработка кода информационных систем.

специальность 09.02.07

Информационные системы и программирование.

Выполнил: студент группы № ИВ2-22

Гребенников Дмитрий

Проверил: преподаватель

Харин Е.Н.

# Abstact

The report is made in 1 part and contains: pages — 7, words — 277, images — 1

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

Contents

[Abstact 2](#_Toc123116856)

[Introduction 4](#_Toc123116857)

[Body of the report 5](#_Toc123116858)

[Conclusion 7](#_Toc123116859)

# 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.

# Body of the report

## 1 Component diagram

Let's make a diagram of video hosting components

Image 1 — Diagram

## 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

Fields:

* Video

Methods:

* play() unpause current video
* pause() pause current video
* rewind(timecode) rewind current video to timecode
* lazyRewind() 5 seconds rewind

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.