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# 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.

# 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 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

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.