

CENG 453 - Pişti the Game

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General Documentation

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1 Components

In this project, we have grouped all of our components in to two main groups: **server** and **client**.

Components that are responsible for dealing with the user interactions and rendering of the user interface graphics are grouped under **client** components. Therefore we can safely state that **client** components are mostly responsible for dealing with the *view* of the project.

Rest of the components can be grouped under **server** components. These components can actually be divided in to subgroups under the **server** category. There are *repository and model* components which are responsible for creating and managing data-tables. Also they are responsible for dealing with the transactional functionalities as-well: like addition or update of data in the tables or retrieval of the data from them. Another subgroup of components, is *APIs*. These components are actually REST controllers that provide API services and communicate with the **client** side of the project. They retrieve the user interactions from the *client* side of the project and send back necessary information to be displayed or to be used in the front-end. Also in the **server** side of the project there are stand alone *classes* that can be named as *definitions*. These components can actually be considered as fill-the-gap type of components. Their main purpose is to represent data types that are used by other components and reflect the concept of the project (in this sense, reflects the pişti card game). Last group of components are named as *services*. These components are the glue that holds the all other components together. They are responsible for managing the interactions between the components and (therefore) to control the main programming logic.

2 Technologies

- **Spring Boot** is used to develop the back-end components. Spring Core, Spring Web, Spring Data JPA and Spring Security are used.
- **JavaFX** is used for the development of the front-end of the project.
- **MariaDB** is selected to be the DBMS technology of the project.
- **Apache Tomcat** is used as the servlet container and for serving the back-end of the project.

3 Package Structure

The project is divided in to two main packages: **server** and **client**. In the **server** side, the packages are created according to their group of functionalities, therefore the name of the sub-packages are like: api,

service, model etc. Also under the packages project is subdivided according to it's context and use-cases to clearly demonstrate the functionalities.

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