**University of Oviedo**

**Documentation Third Deliverable**

**Software Architecture**

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# Project information

All the documentation files can be found inside the documentation folder in our Github repository.

<https://github.com/Arquisoft/Trivial_i1b>

This is a direct access to the Readme that contains the general information of the group.

This folder contains the Documentation information like manuals and all the diagrams, also the Visual Paradigm project.

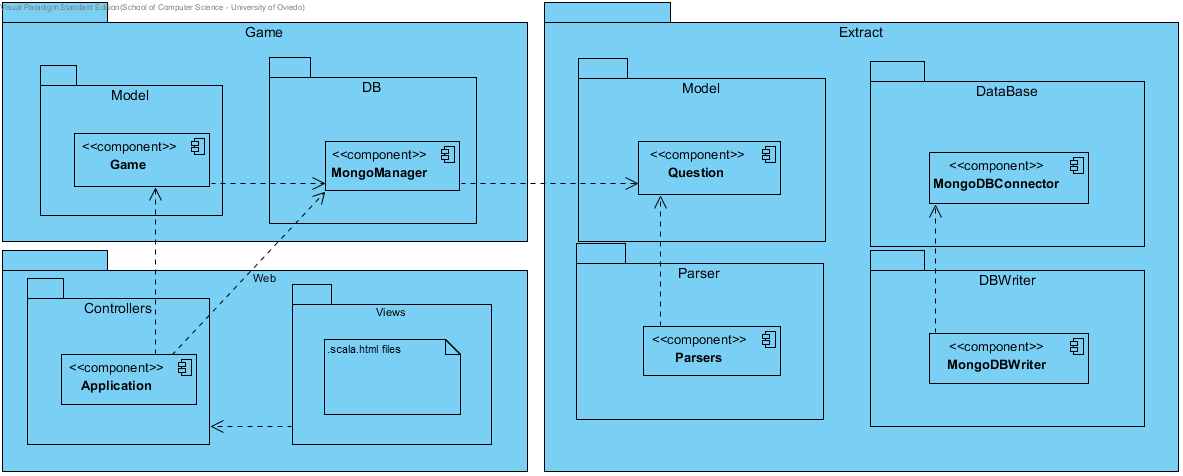
<https://github.com/Arquisoft/Trivial_i1b/tree/master/Documentation>

The generated documentation.

<https://github.com/Arquisoft/Trivial_i1b/blob/master/Documentation/GeneratedVPDocumentationDeliverable3.pdf>

# Architecture diagrams

## Package view

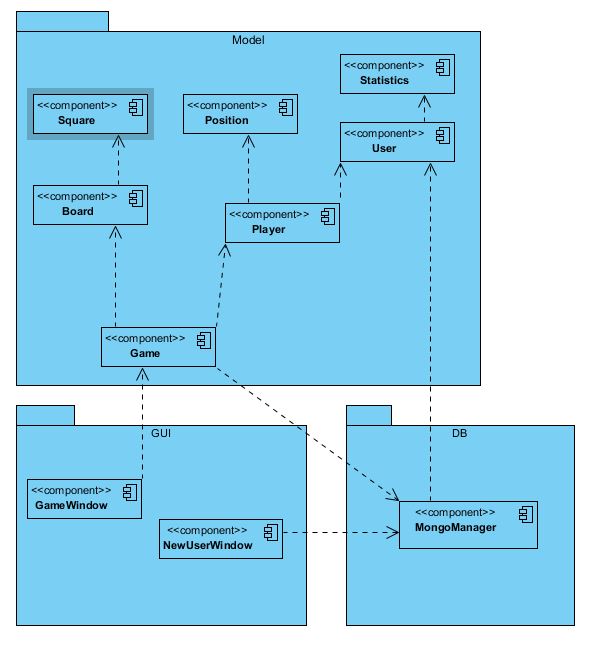


## Component views

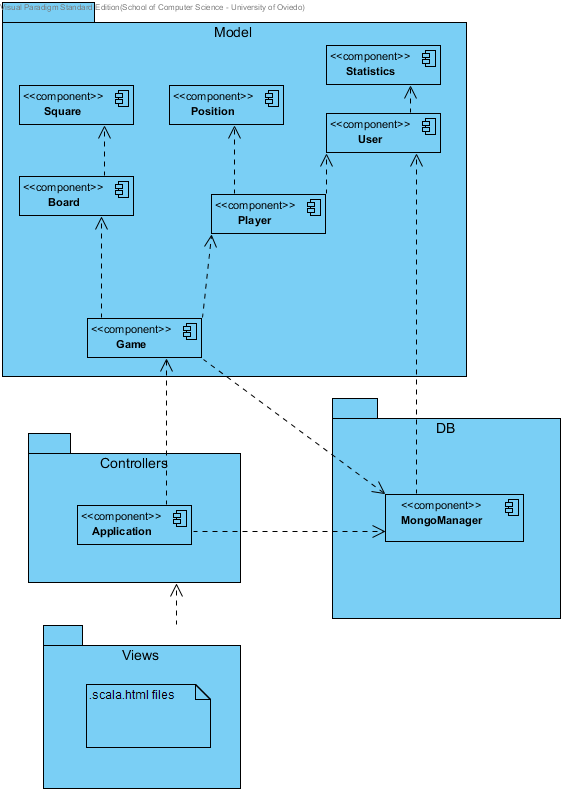
### Extract



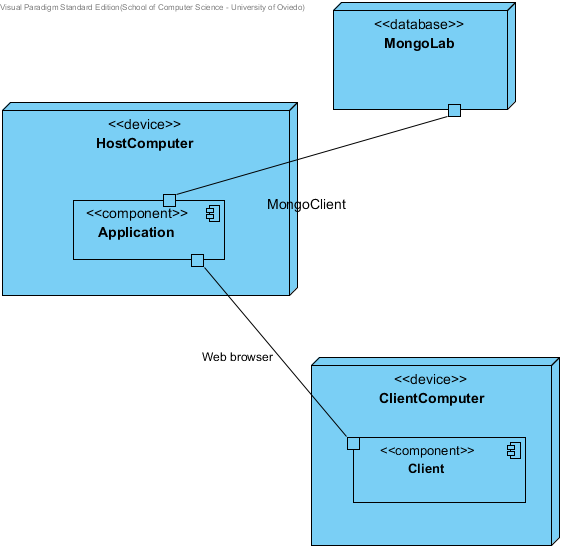
### Game



### Web



## Deployment view



# User manual

This is a web application that works locally but can be uploaded to a server; since it is based on the original Trivial game everybody will be able to learn how to use it in almost no time.

The most important thing the user must know before starting to use or application is that it is composed by 5 different pages:

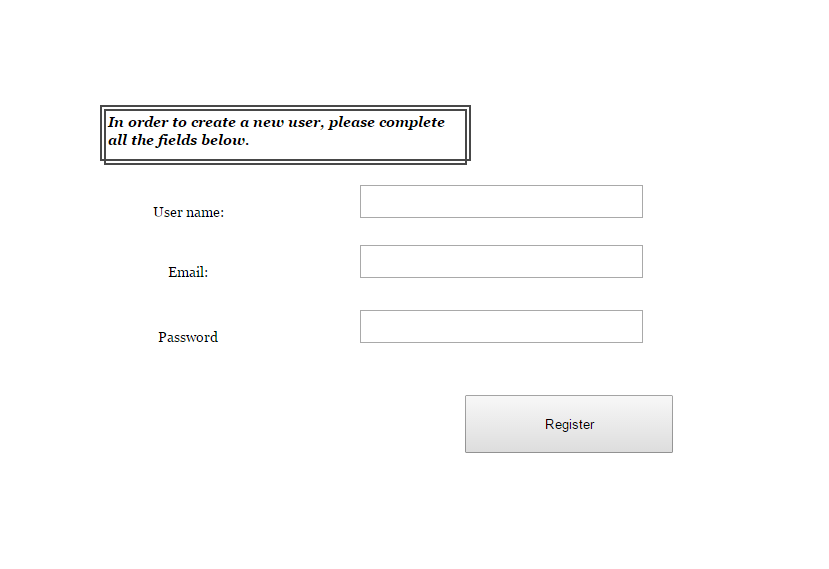
## Initial page

The first window that appears when the application is ran. In this window, you can change the background color with the buttons on the left, go to the page where you can register as a user or go to the login page.

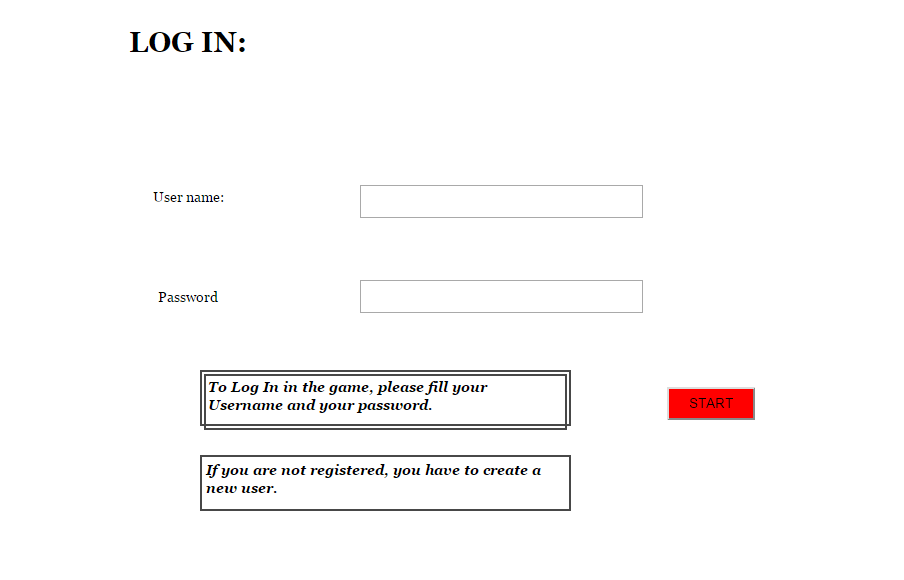


## Create a new user

If you want to create a new user, you must provide some personal data like your username, your email and a password. All this information is required to create the user and will be saved to the database after you click in the register button.

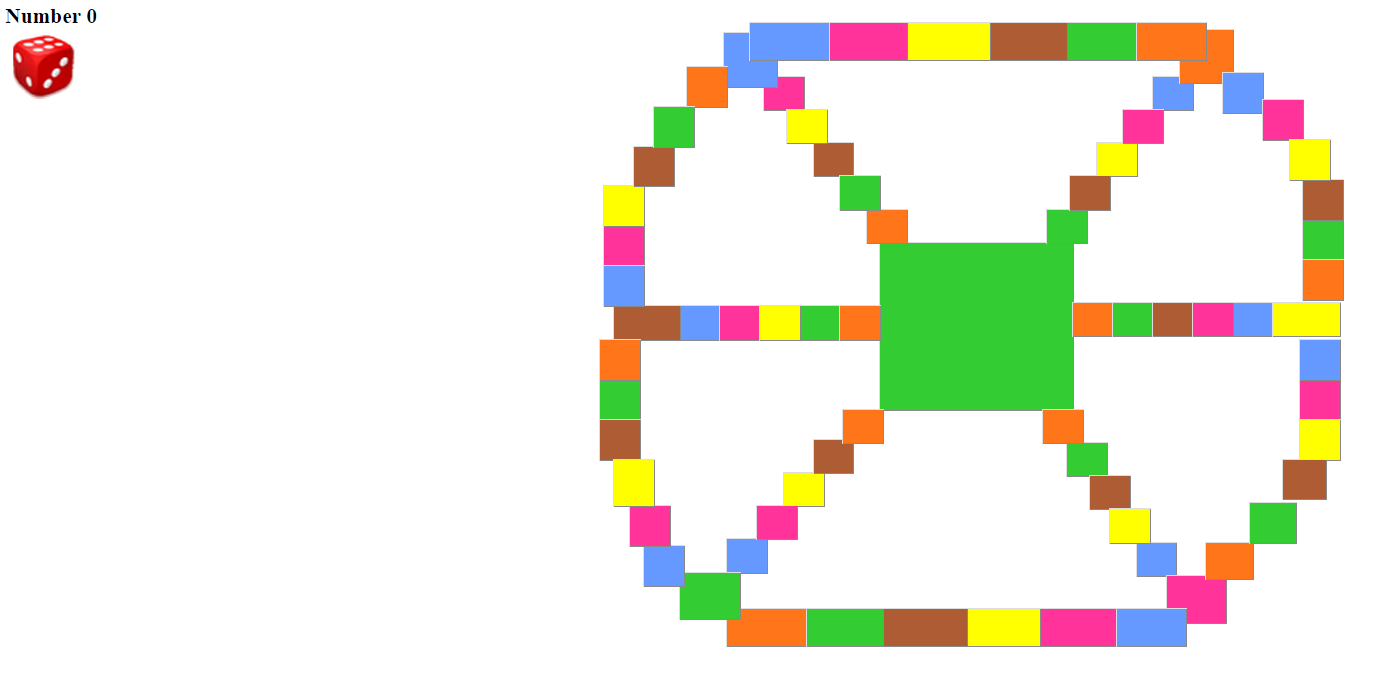


## Login

In this window you can login with your username and password you previously created in the register page. This information is going to be checked when you click in the start button, after that if the information is correct the play page is going to be shown. 

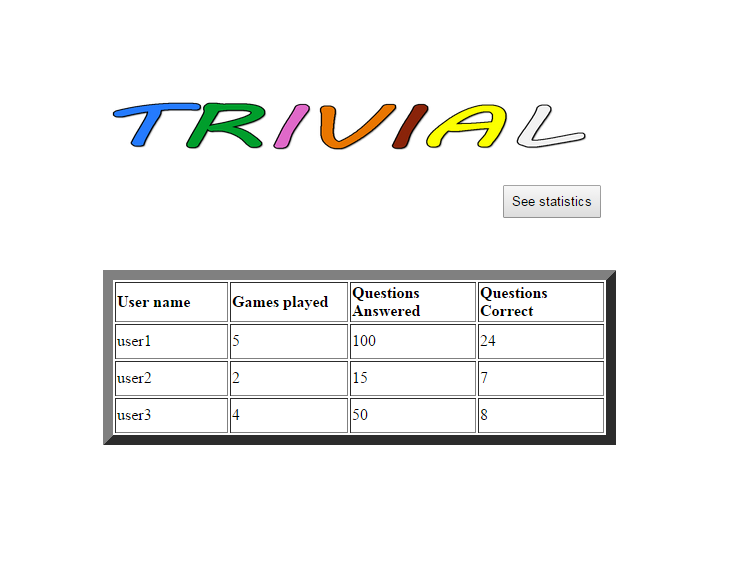
## Play

This is the main window of the application. Here is the board that should show where the player is. To start the game, the dice has to be pressed and the player has to decide which category he/she prefers. Depending on the category selected, one question or another will be retrieved from the database and asked to the player.



## Statistics

In this page the user will be able to see a small piece of information as a table. The information shown is the username, number of games played, number of answers and number of correct ones for all players.



# System Manual

This project is based on the MVC architecture. For this reason you will be able to find the following folders:

## System requirements

In order the application to work properly it is necessary to have installed a Java version greater than or equal to Java 5.

## Model

This package contains all the model of the game, since it has not suffered any change with respect the previous implementation all the information about it can be consulted in the page written below, accessing to the “*Logic*” section.

<https://github.com/Arquisoft/Trivial_i1b/blob/web/Documentation/Documentation_Triviali1b_V2.0.pdf>

## Views

This package the different pages can be accessed in our application:

* **Board**

HTML page that will show the board of the game. The board is constructed by using buttons to represent each cell.

* **Error**

This page is the one used in case some error occurs while logging or creating a new user. It only contains an error message.

* **Initial**

Window that will be shown the first. It provides access to the *login* and the *newUser* window. There are also 4 buttons in order to change the color of the screen, the implementation of this behavior us made by using a JavaScript function that changes the background depending on the id of the button clicked.

* **Login**

This window is used by the player to tell the game who is the user that will play. In case the user and password entered are correct the board, otherwise the error page is shown.

* **NewUser**

This page allows creating a new user by asking for a name, email address and password.

* **Statistics**

It is only for the admin, who can access by means of the login window. This page shows the statistics of the players looking in the database for the needed information.

## Controllers