

# Contents

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# CONTENT MANAGING SYSTEM

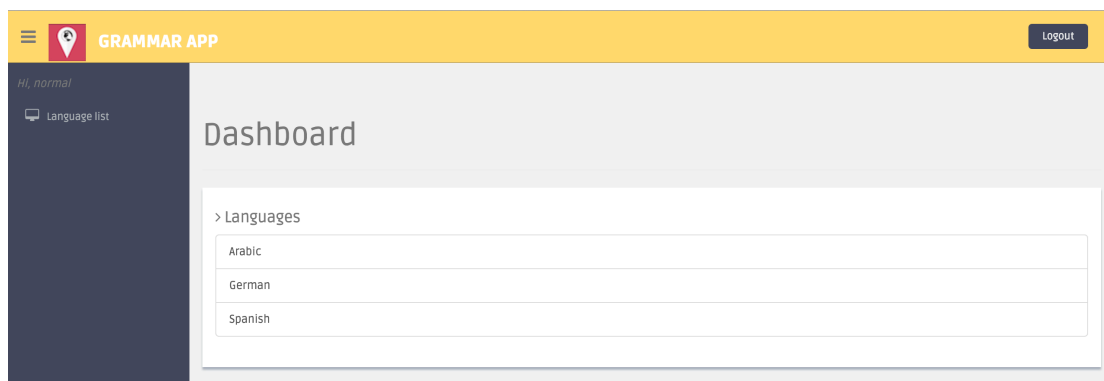
## Overview:

- Grammar app
- CMS is for tutors to edit the grammar app



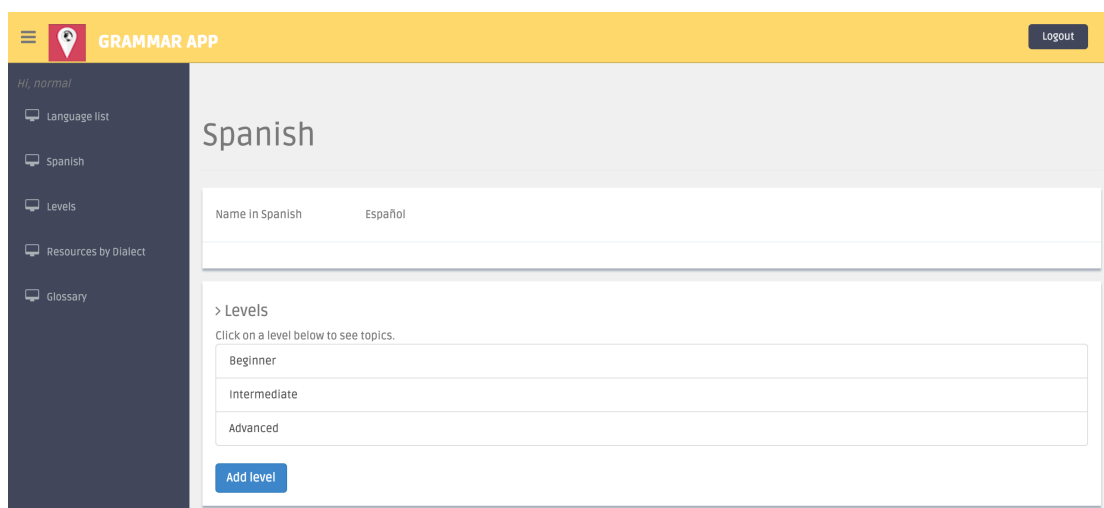
A login form on a yellow background. It consists of a white input field labeled 'username', a yellow input field for a password (represented by dots), and a blue 'Sign in' button.

## CHOOSE THE LANGUAGES:



The dashboard for the Grammar App CMS. The header is yellow with a hamburger menu, a location pin icon, the text 'GRAMMAR APP', and a 'Logout' button. The left sidebar is dark blue with a 'Language list' link. The main content area is light gray and titled 'Dashboard'. It features a section '> Languages' with a table listing 'Arabic', 'German', and 'Spanish'.

## CHOOSE THE LEVELS:



The 'Spanish' page in the Grammar App CMS. The header is yellow with a hamburger menu, a location pin icon, the text 'GRAMMAR APP', and a 'Logout' button. The left sidebar is dark blue with links for 'Language list', 'Spanish', 'Levels', 'Resources by Dialect', and 'Glossary'. The main content area is light gray and titled 'Spanish'. It features a table with 'Name in Spanish' and 'Español'. Below this is a section '> Levels' with the text 'Click on a level below to see topics.' and a table listing 'Beginner', 'Intermediate', and 'Advanced'. At the bottom of this section is a blue 'Add level' button.

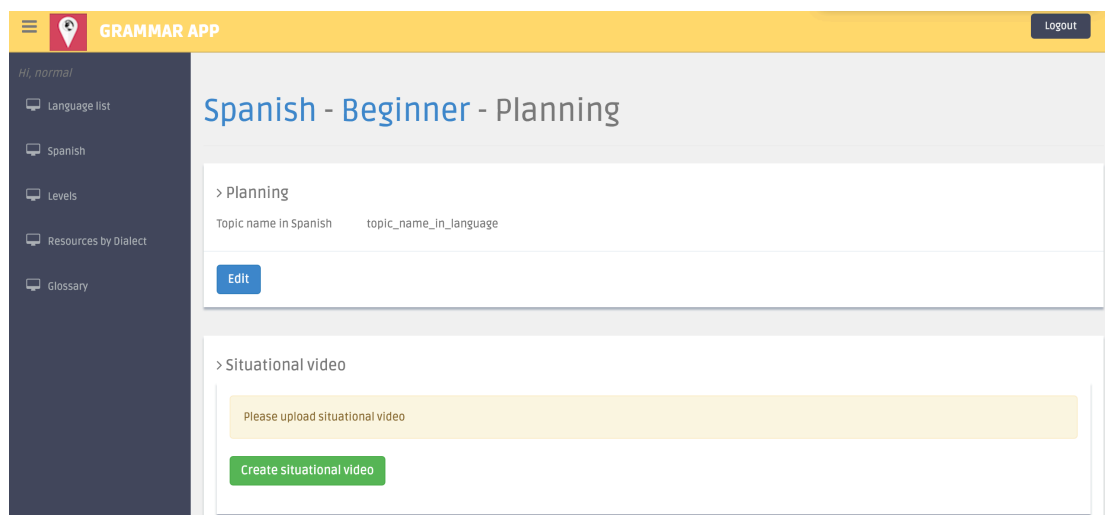
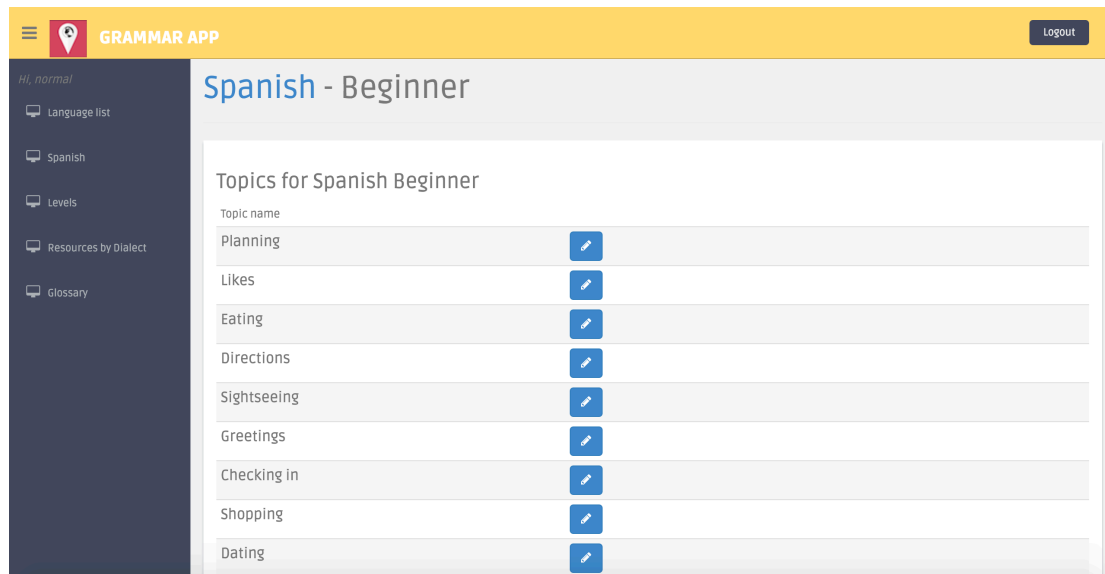
For each language you can add levels for it (up to three levels)

# CONTENT MANAGING SYSTEM

## LEARN SECTION:

In this section, students can watch videos to study on certain topics. This video is called situational video.

In order to add video in this section, first, you need to choose one of the topics that you want to add situational video.



User can add two videos, one with transcript and another without transcript. User can also add brief descriptions written in English

# CONTENT MANAGING SYSTEM

The screenshot shows the Grammar App interface. At the top, there is a yellow header with a hamburger menu icon, a location pin icon, the text "GRAMMAR APP", and a "Logout" button. On the left, a dark sidebar contains a list of menu items: "Language list", "Spanish", "Levels", "Resources by Dialect", and "Glossary". The main content area has a light gray background. At the top of this area, a red error message box says "error Not successfully saved". Below this, a white box titled ">Uplaod Situational Video" contains a form. The form has a message "This field is required." followed by a text input field for "Situation description:". Below that is another text input field for "Situation description in language:". Then, there are two sections: "Video with transcript:" with a "Choose File" button and the text "No file chosen", and "Video without transcript:" with a "Choose File" button and the text "No file chosen".

## PRACTICE SECTION:

In this section, students can solve four types of questions: Drag and drop, Multiple choice, True false, and Typing.

In order to add 'Drag and drop' question, user need to add subtopic for vocabulary.

The screenshot shows the Grammar App interface with three main sections. The first section is titled "> Situational video" and contains a yellow box with the text "Please upload situational video" and a green button labeled "Create situational video". The second section is titled "> Grammar Topics" and contains a yellow box with the text "Please add subsections" and a green button labeled "Add grammar topic". The third section is titled "> Vocabulary" and contains a yellow box with the text "Please add subtopic for vocabulary." and a green button labeled "Add vocabulary". The sidebar and header are the same as in the previous screenshot.

Once you click add vocabulary button, you will need to type vocabulary in your language. If you are in charge of Spanish app, you can add 'vocabulario' in this form.

# CONTENT MANAGING SYSTEM

GRAMMAR APP

Logout

Spanish - Beginner - Planning - Vocabulary

Vocabulary name	Vocabulary
Vocabulary name in Spanish	vocabulario
Video file	grammar video/U01-02.mp4

Edit

> Vocabulary Exercise

Vocabulary

New exercise

Since you want to add 'drag and drop' question, press 'blue pencil' button. Next, you can add press 'add vocabulary question' button that will lead you to following page.

GRAMMAR APP

Logout

Spanish - Beginner - Planning - Vocabulary

>Upload images for choices

This field is required.

Question text:

Choice 1:  No file chosen

Choice 2:  No file chosen

Choice 3:  No file chosen

Choice 4:  No file chosen

Choice 5:  No file chosen

Choice 6:  No file chosen

This field is required.

Correct answer:

Save

We need screen shot here

First, add question text. This will be a word or sentences describing one of the picture following. You can add six images that students will see.

- Add Type, Multiple choice, True&false question.

-

# CONTENT MANAGING SYSTEM

> Grammar Topics

Grammar topic name

Problem

second

subtopic

Add grammar topic

> Vocabulary

Vocabulary

Press “Add grammar topic” button here.

GRAMMAR APP

Logout

Language list

Spanish

Levels

Resources by Dialect

Glossary

Spanish - Beginner - Planning - Exercise example

Grammar topic or vocabulary name	Exercise example
Grammar topic or vocabulary name in Spanish	Exercise example
Grammar video file	grammar video/U01-02.mp4

Edit

> Exercises

Please enter exercise

New exercise

This page will be appear when user click grammar topic that user just entered.





# CONTENT MANAGING SYSTEM

## GRAMMAR AND VOCABULARY VIDEOS:

### Spanish - Beginner - Greetings - Problem

Grammar topic or vocabulary name	Problem
Grammar topic or vocabulary name in Spanish	Pronombres
Grammar video file	grammar video/U01-01.mp4
<button>Edit</button>	

#### > Exercises

test	 
Sample Exercise	 

The grammar and vocabulary subtopics have video files and the exercises.

### >Enter subtopic

This field is required.

Subtopic name:

This field is required.

Subtopic name in language:

Grammar video file: Currently: [grammar video/U01-01.mp4](#) ☐ Clear

Change:

No file chosen

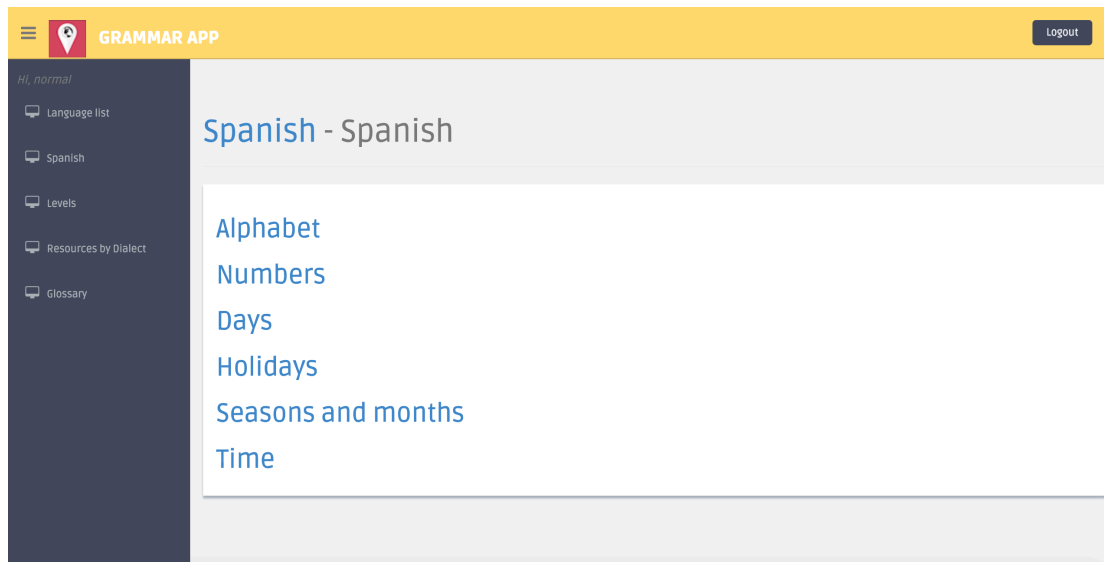
You can edit the video, to create the name and choose the video file to submit.



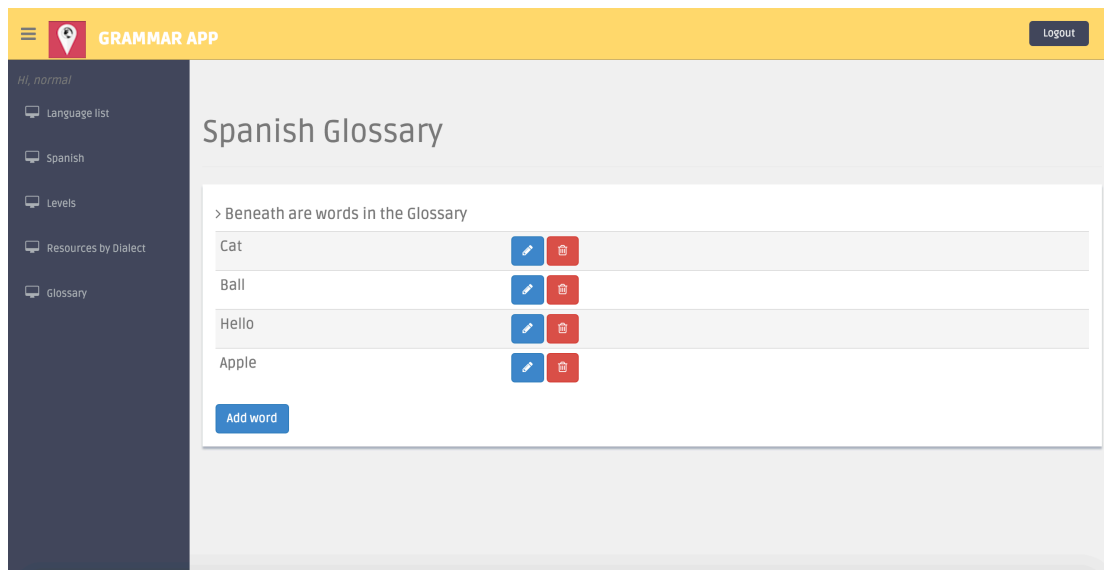
# CONTENT MANAGING SYSTEM

## RESOURCES & GLOSSARY

When you click the Resources and Dialect button on the left hand side, you can get into the resources page, so does the glossary page.



When you enter the subtopic you are able to do edit then by click the 'blue pen' as mentioned before.



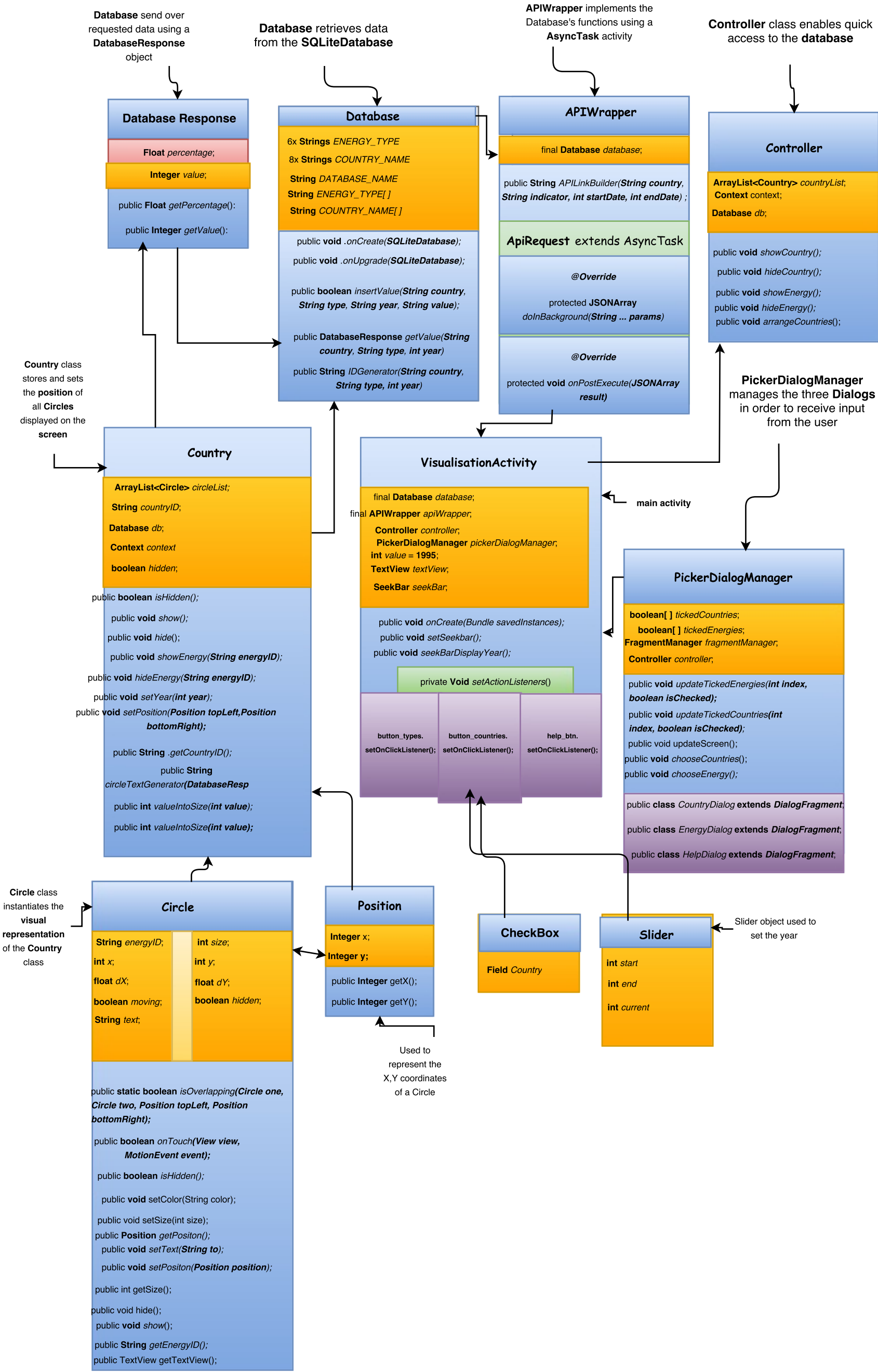
## ADMINISTRATION NOTES

-Warning: Don't change beginner level topic name if you want to retain correct navigation in the app. Changing the name of the level from beginner to anything else will cause you to revert to an alternate design for the buttons even if the topic names are the same.

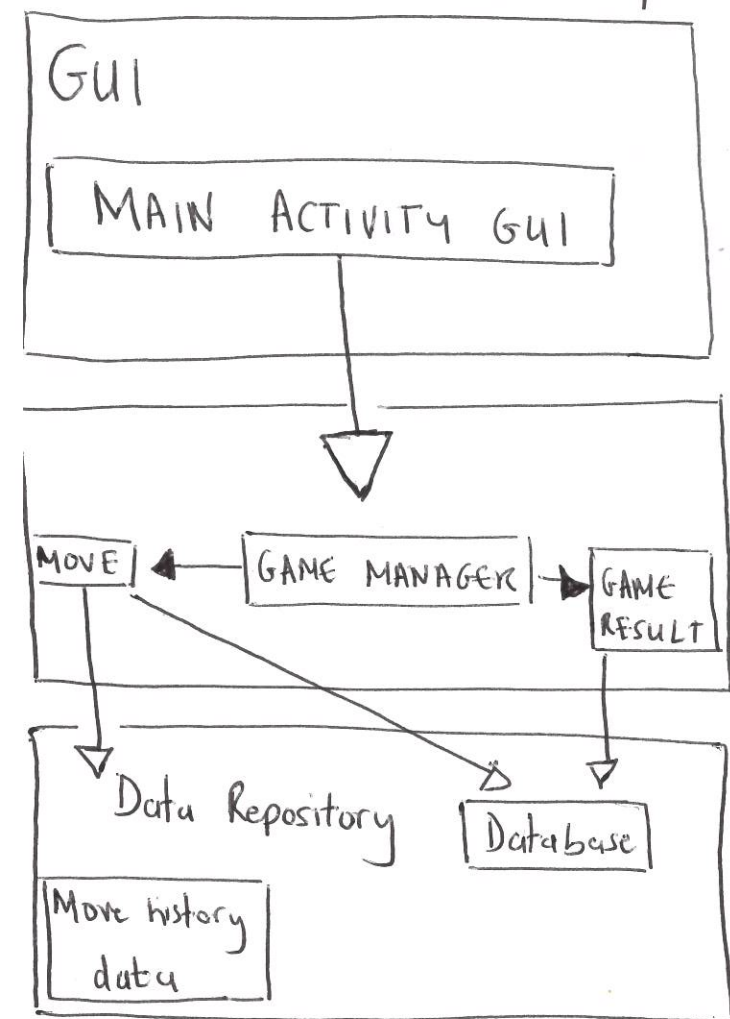
# CONTENT MANAGING SYSTEM

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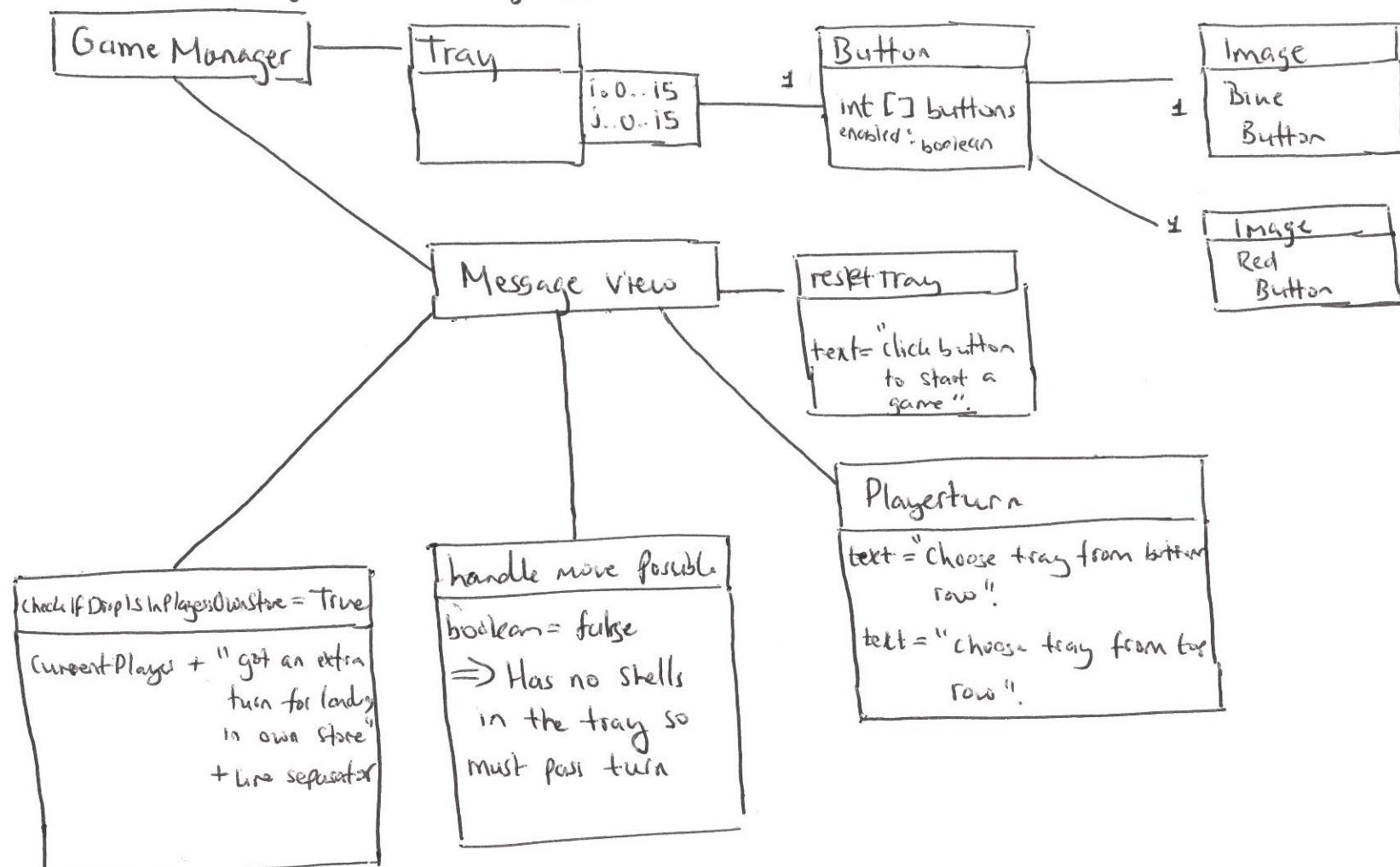
- When using the beginner level, do not remove the topics. Having less than 9 topics will cause the app to crash.
- More than 9 topics may cause layout issues where not all of the topics fit on the device's screen size.



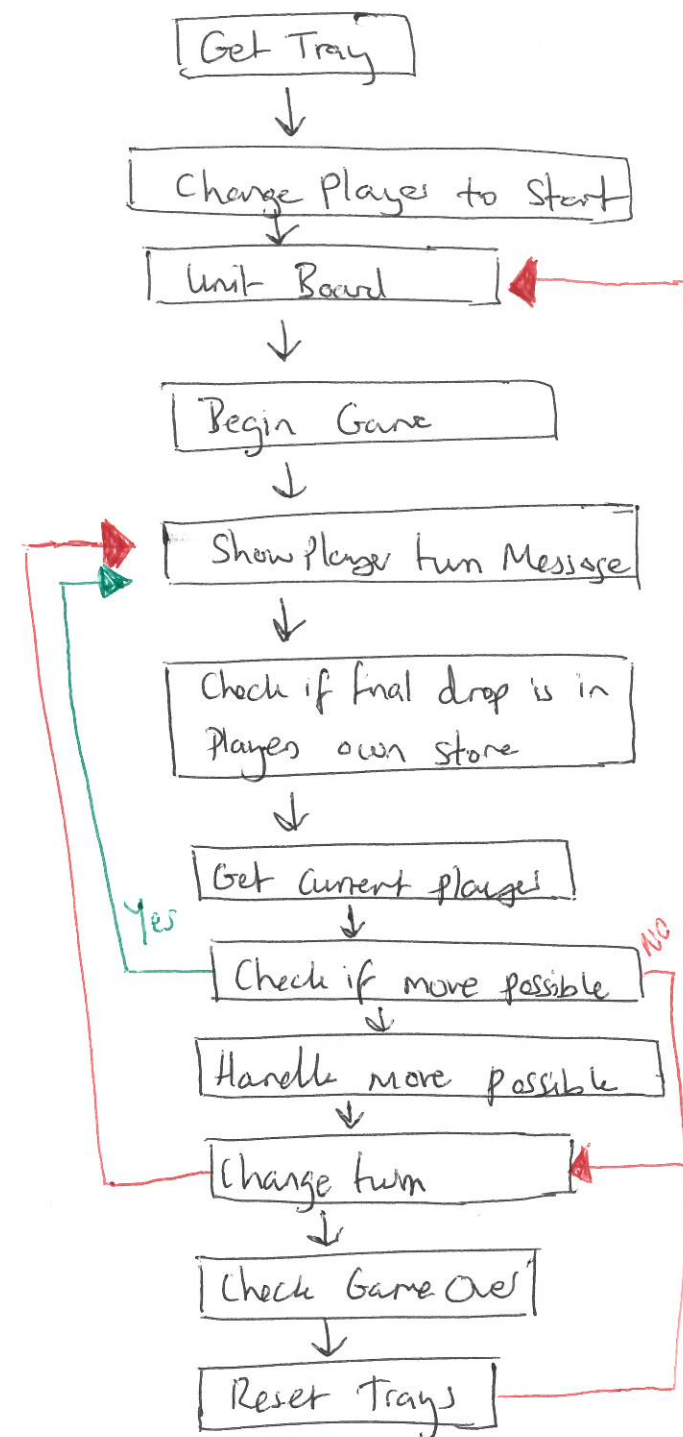
# Architecture of Sungka System



## Object Diagram of Sungka GUI

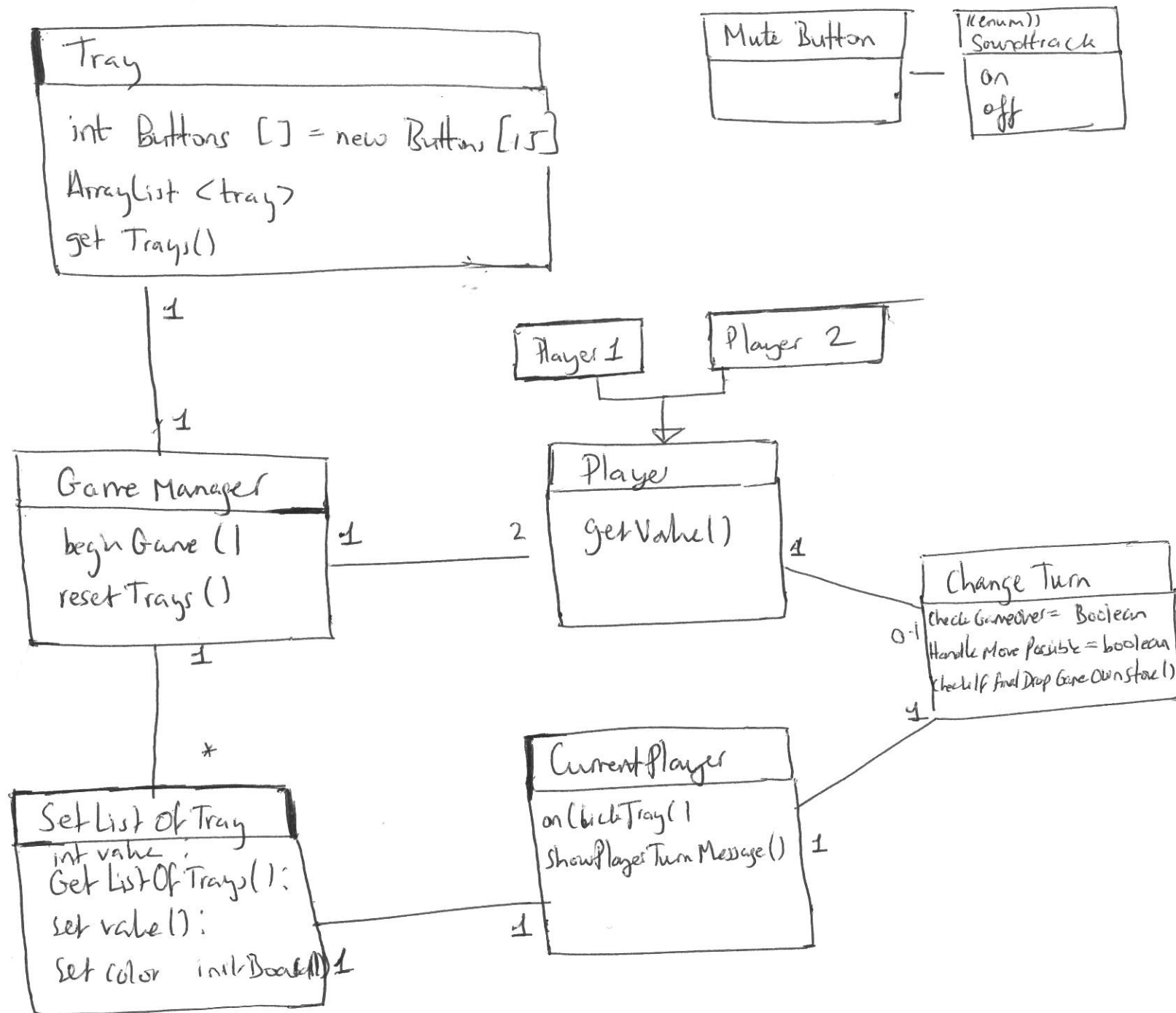


## Design Pattern



## Class Diagram

### → Functional Core



## Testing

- Change for orientation - It works on all size of landscape screen
- Different OS → it works - Available in Android phone/virtual emulator
- Change in Configuration
- Espresso test - Using espresso library, it tests all layout automatically
- JUnit

## Agile Methodology and Development

- Communication role
  - Organising foundation of game through specialising on specific tasks.
  - Frequent development of project (meeting more than twice a week)
  - Late development and changes through testing
  - Focus on design and usability of application
  - Technical side of development highlighted
  - Groups working together on keeping work load simple yet effective
  - Adapting to each development process as time passes