



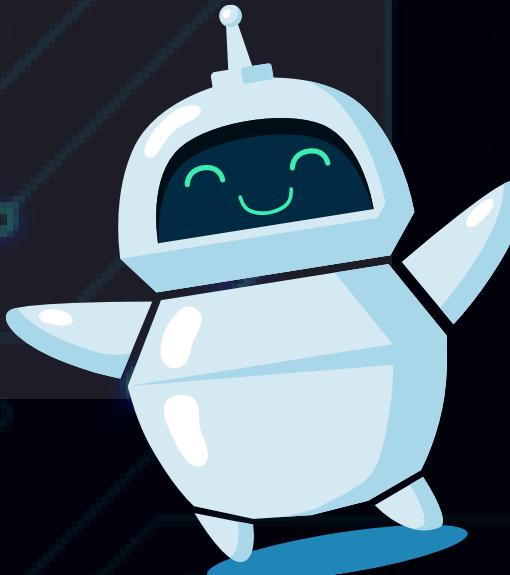
FINAL PROJECT

Recruitment Exhibition

第一組

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CONTENTE

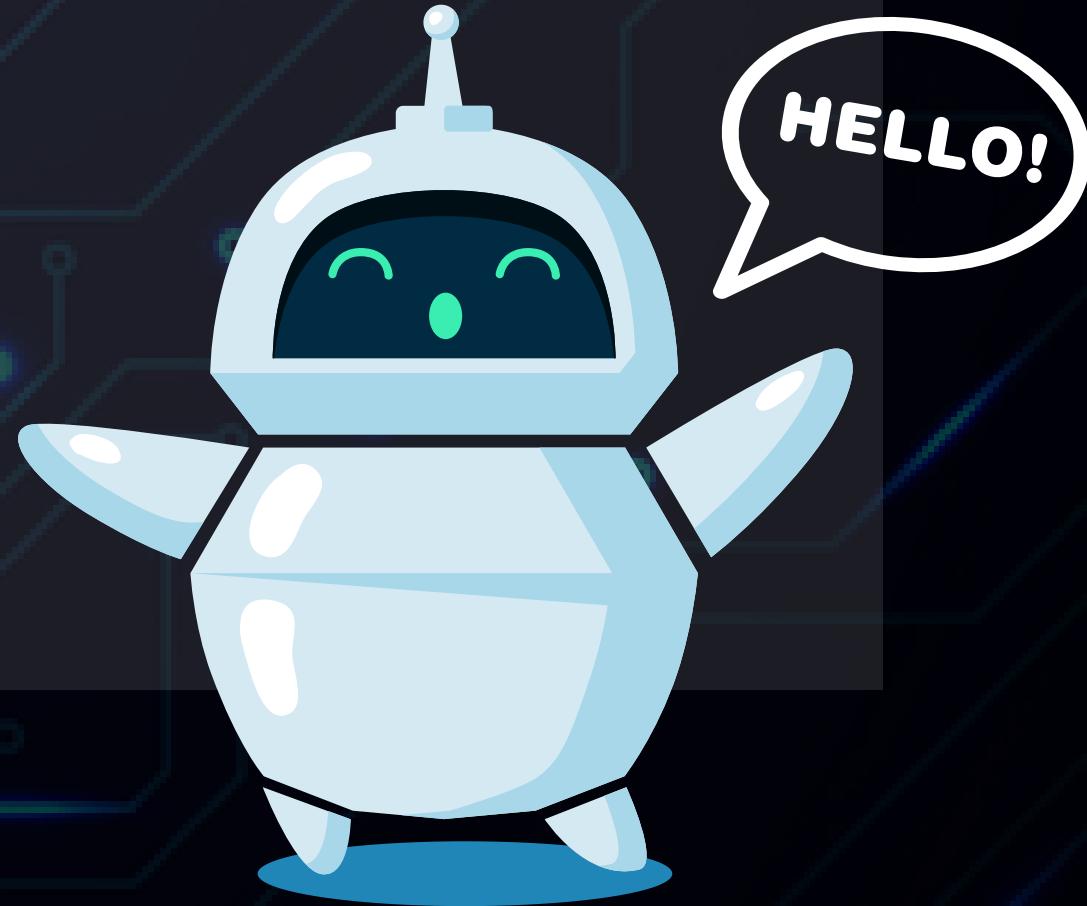
- Motivation and Topic
- Function (Video)
- Java Concept
- System Architecture Feature
- Highlights in our Codes
- Parts Can Be Improved
- Teamwork Assignment



TOPIC :

徵才月大作戰

Recruitment Exhibition



MOTIVATION

- 徵才博覽會的企業宣傳單與抽獎券
 - 學生交給企業的履歷
 - 垃圾問題
- => 與ESG中的低碳目標背道而馳

希望徵才博覽會能夠實現少紙化，甚至無紙化



MOTIVATION



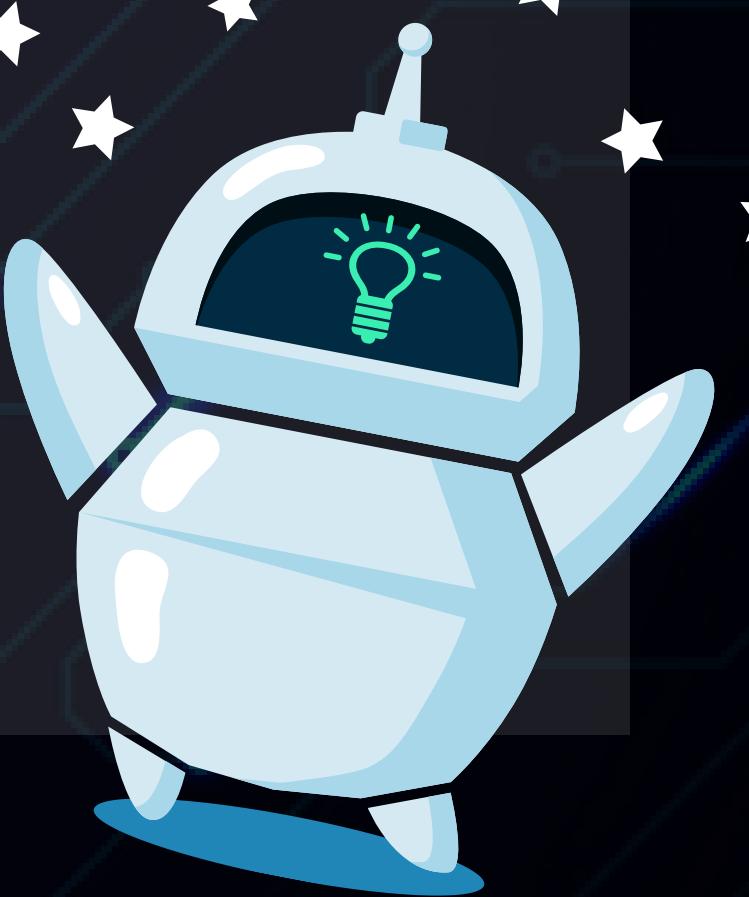
- 無紙化
=> 保護天然資源、能源使用管理



HOW TO DO IT?

如何解決徵才博覽會難題？

- 一個給企業端和學生端使用的平台
 - 履歷、海報線上化
 - 抽獎改為線上
- => 減少企業海報、宣傳抽獎海報紙張

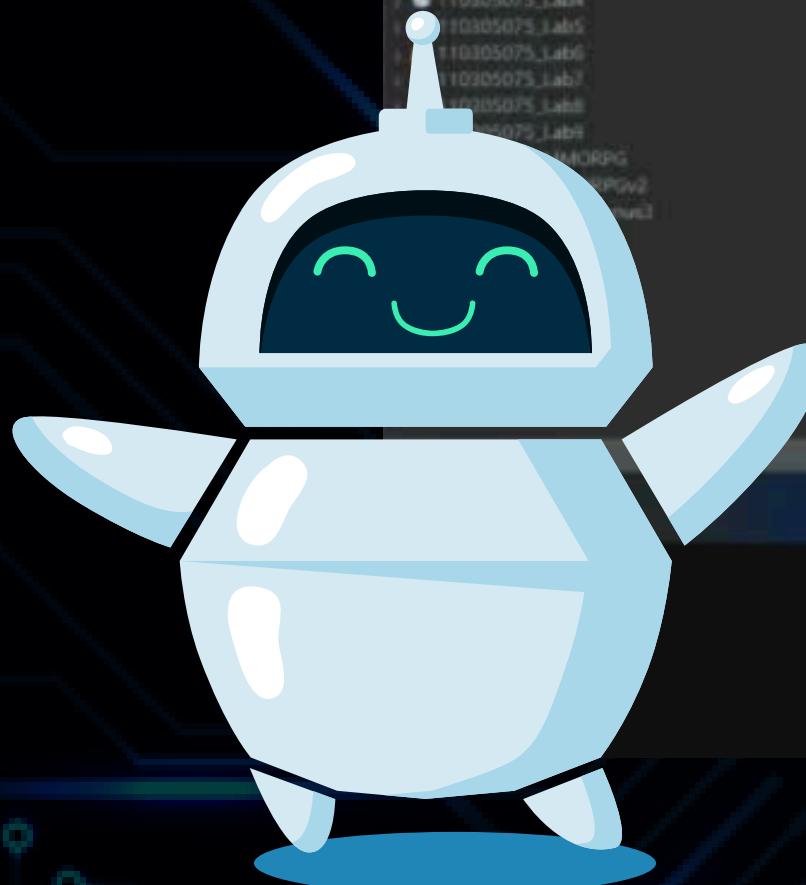


FUNCTION

- 線上投放 / 下載履歷pdf檔
 - 企業宣傳海報電子化
 - 填表單代替抽獎券
 - 設定抽獎模式及獎項 / 抽獎時間提醒
- => 最大限度減少紙張



VIDE



eclipse-workspace - Group1_FinalProject/src/GUI.java - Eclipse IDE

```
File Edit Source Refactor Navigate Search Project Run Window Help
```

Package Explorer GUI.java lottery.java Common_method.java lottery2.java

```
1 import java.awt.BorderLayout;
2
3 public class GUI {
4     private static final String FILE_STORAGE_PATH = "file_storage/";
5     private static final String FILE_STORAGE_PATH2 = "file_storage2/"; //用于热替换机制
6     private static Connection conn;
7     private static int g;
8     private static Lottery1 lt1;
9     private static Lottery2 lt2;
10    private static JTextArea resultArea;
11    private static JFrame resultFrame;
12    private static String timeReminder;
13
14    public static void main(String[] args) {
15
16        String server = "jdbc:mysql://140.119.79:3315/";
17        String database = "110305075"; // change to your own database
18        String url = server + database + "?useSSL=false";
19        String username = "110305075"; // change to your own username
20        String password = "ku05g"; // change to your own password
21
22        try {
23            conn = DriverManager.getConnection(url, username, password);
24            System.out.println("DB Connected");
25        } catch (SQLException e) {
26            e.printStackTrace();
27        }
28    }
29}
```

Problems Javadoc Declaration Console

terminated> GUI [Java Application] C:\Program Files\Java\jdk-17\bin\java.exe (2024年6月25日下午10:21:54 - F=1021:57) (git: 20950)

DB Connected

Google Chrome

你正在與所有人分享螢幕畫面
單擊停止顯示畫面路，按這裡可收回資訊
通話視頻
meet.google.com

Writable Smart Insert

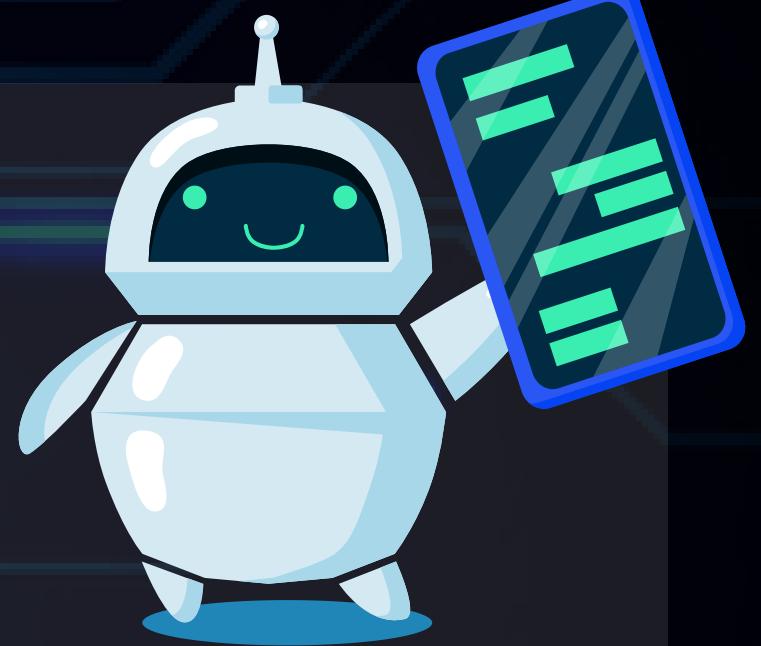
搜索框 按钮1 按钮2 按钮3 按钮4 按钮5 按钮6 按钮7 按钮8 按钮9 按钮10 按钮11 按钮12 按钮13 按钮14 按钮15 按钮16 按钮17 按钮18 按钮19 按钮20 按钮21 按钮22 按钮23 按钮24 按钮25 按钮26 按钮27 按钮28 按钮29 按钮30 按钮31 按钮32 按钮33 按钮34 按钮35 按钮36 按钮37 按钮38 按钮39 按钮40 按钮41 按钮42 按钮43 按钮44 按钮45 按钮46 按钮47 按钮48 按钮49 按钮50 按钮51 按钮52 按钮53 按钮54 按钮55 按钮56 按钮57 按钮58 按钮59 按钮60 按钮61 按钮62 按钮63 按钮64 按钮65 按钮66 按钮67 按钮68

孟珊

穆孟珊

JAVA CONCEPTS

- Interface
- GUI
- Database
- Design Pattern



SYSTEM ARCHITECTURE

- PDF上傳與下載
- GOOGLE表單設置
- 人人有獎的介面如何根據獎品種類變化



DESIGN PATTERN

```
+import java.sql.Connection;□

class DatabaseConnection {
    private static Connection conn;

    private DatabaseConnection() {
        // private constructor to prevent instantiation
    }

    public static Connection getConnection() {
        if (conn == null) {
            synchronized (DatabaseConnection.class) {
                if (conn == null) {
                    try {
                        String server = "jdbc:mysql://140.119.19.73:3315/";
                        String database = "110305075"; // change to your own database
                        String url = server + database + "?useSSL=false";
                        String username = "110305075"; // change to your own username
                        String password = "ku05g"; // change to your own password

                        conn = DriverManager.getConnection(url, username, password);
                    } catch (SQLException e) {
                        e.printStackTrace();
                    }
                }
            }
        }
        return conn;
    }
}

public static void main(String[] args) {
    conn = DatabaseConnection.getConnection();
```

IN GUI CLASS

Singleton Pattern

確保在整個應用程序中只
有一個數據庫連接實例。

To ensure only one
instance of the
database connection
throughout the
application.

PDF UPLOAD & DOWNLOAD

```
// 處理學生端上傳檔案給企業端的動作
uploadToEnterpriseButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        // 選擇檔案
        JFileChooser fileChooser = new JFileChooser();
        int result = fileChooser.showOpenDialog(frame);
        if (result == JFileChooser.APPROVE_OPTION) {
            File selectedFile = fileChooser.getSelectedFile();
            try {
                // 將檔案複製到文件儲存位置
                Files.copy(selectedFile.toPath(), Path.of(FILE_STORAGE_PATH + selectedFile.getName()));
                // 更新企業端的檔案清單顯示
                updateEnterpriseFileList(enterpriseTextArea);
            } catch (IOException ex) {
                ex.printStackTrace();
            }
        }
    }
});
```

JFileChooser 從系統中選取文件已進行

1. showOpenDialog()打開
2. showSaveDialog()保存
3. 選擇目錄

copy(address for the file, where to keep the file)

Path.of(storage folder for the file + file name)

GOOGLE FORMS IN GUI

```
JLabel a = new JLabel("<html><a href='adress'>your  
label</a></html>");
```

```
JLabel linkLabel = new JLabel("<html><a href='https://docs.google.com/forms/d/e/1FAIpQLSe9D61DK_8ItW7r0KFxz434dooN65OsMam7PnAe1_xsCkY6DQ/viewform?usp=sf_link'>  
填寫抽獎表單</a></html>");
```

CHANGE LAYOUT WITH PRIZE NUMBERS

```
confirmTypeButton.addActionListener(new ActionListener() {
    @Override
    public void actionPerformed(ActionEvent e) {
        String typeInput = typeNumField.getText();
        if (typeInput.isEmpty()) {
            JOptionPane.showMessageDialog(lotteryLimFrame, "請輸入種類數！", "錯誤", JOptionPane.ERROR_MESSAGE);
            return;
        }
        try {
            int totalPrize = Integer.parseInt(typeInput);

            // 移除舊的組件
            lotteryLimFrame.getContentPane().removeAll();
            lotteryLimFrame.repaint();

            JPanel prizePanel = new JPanel(new GridLayout(totalPrize, 2));
            ArrayList<JTextField> serialNumFields = new ArrayList<>();
            ArrayList<JTextField> prizeNameFields = new ArrayList<>();

            for (int i = 0; i < totalPrize; i++) {
                JLabel winnerLabel = new JLabel("中獎序號 " + (i + 1) + ":");
                JTextField winnerNumField = new JTextField();
                JLabel prizeLabel = new JLabel("中獎名稱 " + (i + 1) + ":");
                JTextField prizeNumField = new JTextField();

                serialNumFields.add(winnerNumField);
                prizeNameFields.add(prizeNumField);

                prizePanel.add(winnerLabel);
                prizePanel.add(winnerNumField);
                prizePanel.add(prizeLabel);
                prizePanel.add(prizeNumField);
            }
        }
    }
});
```

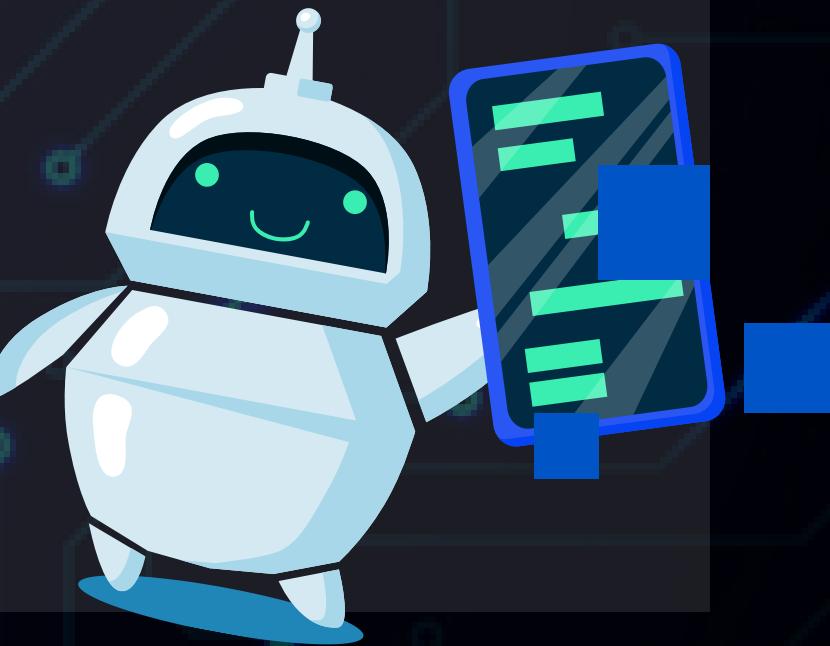
先用第一個介面知道有幾種獎項

第二個介面利用得知的獎項數量寫GridLayout()

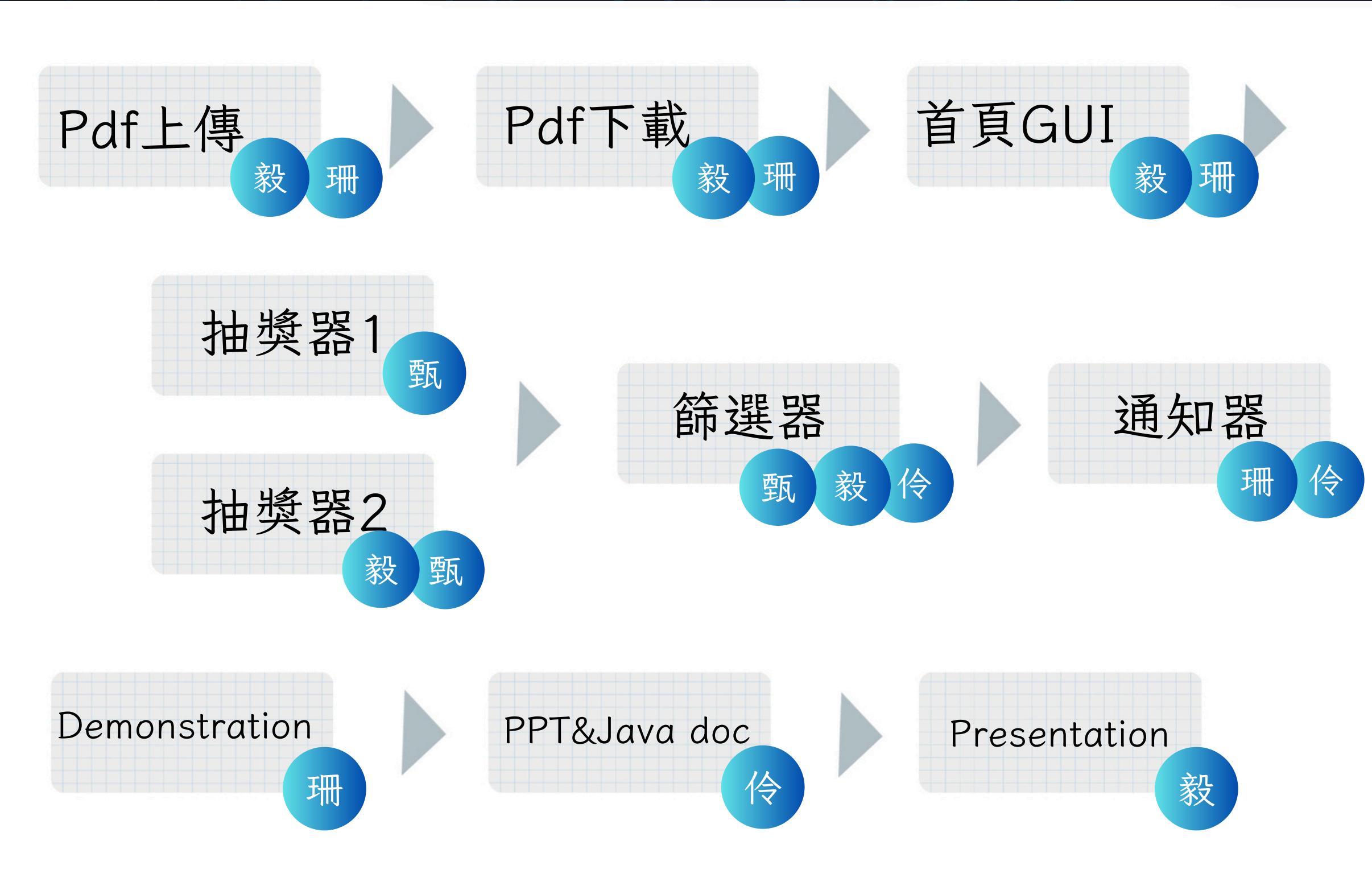
利用for loop將每次的
winnerLabel, winnerNumField
prizeLabel, prizeNumField
加入第二個介面

PRIZES CAN BE IMPROVED

- 限制只能上傳PDF檔案
- 只抽大獎可以設置1獎幾個人、2獎幾個人
- 人人有獎的中獎名單介面以獎品種類分類學生
- 未來可以由在本機模擬轉成放在雲端
利用table存URL



TEAMWORK ASSESSMENT



TEAMWORK ASSESSMENT

- 王鈞毅：上傳&下載pdf、首頁GUI、抽獎器2、篩選器、通知器、Presentation
- 繆孟珊：上傳&下載pdf、首頁GUI、通知器、Design Pattern、Demonstration
- 林宜甄：抽獎器1、抽獎器2、篩選器
- 陳奕伶：篩選器、通知器、PPT、Java doc





THANK YOU!!

