

Random Card Generator



A sleek mobile application built with Python, Kivy, and KivyMD that allows users to create custom card pools and randomly select items from them. Perfect for games, decision-making, random selections, or any scenario where you need to pick items from custom lists.

python v3.7+

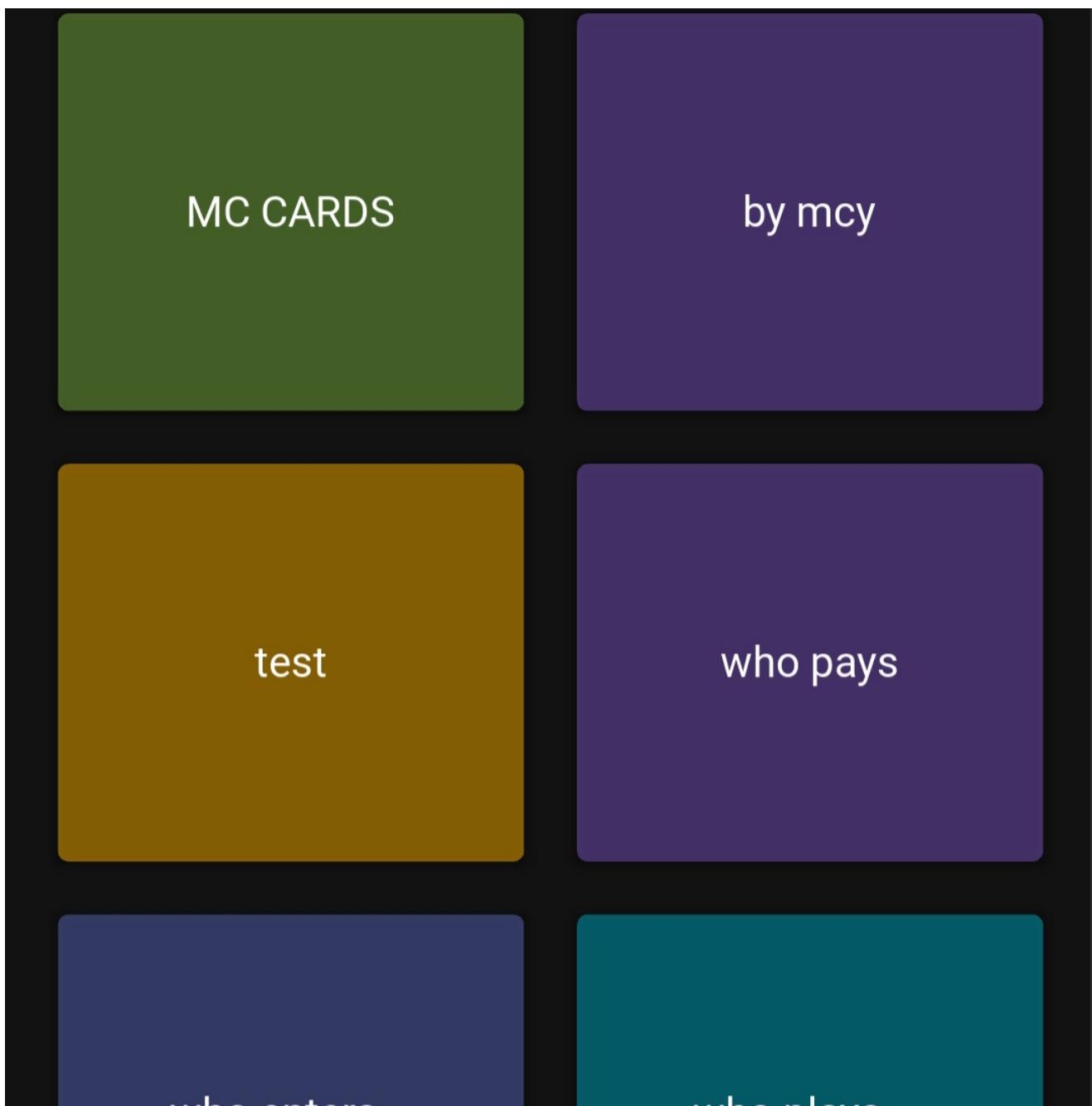
kivy 2.0+

kivymd latest

license MIT

platform Android | iOS | Desktop

Screenshots



WHO enters...

WHO plays ...

Roles

where to s...



DELETE MODE: OFF



Name

List

Enter pool name
who plays first



Save

Close

What to wa...



DELETE MODE: OFF



Name

List

Enter item name then press Enter

Real Madrid

FC Barcalona

Chelsea

Liverpool

Man City

Man United

Save

Close

What to wa...



DELETE MODE: OFF



Name

List

Enter item name then press Enter

Edit Items List

Edit item LIST

Item name

FC Barcalona

Edit

Remove

What to wa...



DELETE MODE: OFF



who plays first

'who plays first' POOL IS
SELECTED





NO '?'



who plays first

Man United

Next



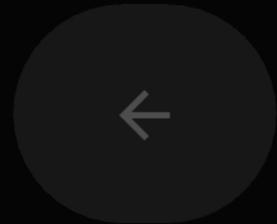
NO '?'



who plays first

FC Barcalona

Next



◆ Features

⌚ Core Functionality

- **Custom Pool Creation:** Create named pools with custom items
- **Random Selection:** Pick random items from selected pools
- **Pool Management:** Edit, delete, and organize your card pools
- **Persistent Storage:** Automatically saves pools between app sessions
- **Sequential Drawing:** Continue drawing cards until pool is empty

⌚ User Interface

- **Material Design:** Clean, modern UI using KivyMD
- **Dark Theme:** Eye-friendly dark theme with accent colors
- **Responsive Layout:** Optimized for mobile devices (360x640)
- **Intuitive Navigation:** Easy-to-use interface with clear visual feedback
- **Delete Mode:** Safe deletion mode to prevent accidental removals

📱 Mobile Optimized

- **Touch-Friendly:** Large buttons and touch targets
- **Scroll Support:** Smooth scrolling for large lists
- **Popup Dialogs:** Modal dialogs for editing and management
- **Keyboard Support:** Full keyboard input support

🚀 Getting Started

Prerequisites

Ensure you have Python 3.7+ installed on your system:

```
python --version
```

Required Dependencies

```
pip install kivy
pip install kivymd
```

Installation

1. Clone the repository

```
git clone https://github.com/mcy-e/random-card-generator.git  
cd random-card-generator
```

2. Install dependencies

```
pip install -r requirements.txt
```

3. Run the application

```
python random_card_Generator.py
```

Building for Mobile

Android (using Buildozer)

```
# Install buildozer  
pip install buildozer  
  
# Initialize buildozer  
buildozer init  
  
# Build APK  
buildozer android debug
```

iOS (using kivy-ios)

```
# Install kivy-ios  
pip install kivy-ios  
  
# Build iOS app  
toolchain build python3 kivy kivymd
```

Usage Guide

Creating Your First Pool

1. **Launch the app** and tap the  **Plus** button
2. **Name your pool** in the "Name" tab
3. **Add items** in the "List" tab:
 - Type an item name

- Press Enter to add it
- Repeat for all items

4. **Save** your pool

Drawing Random Cards

1. **Tap the Shuffle button**  to enter shuffle mode
2. **Select a pool** from the dropdown menu
3. **Tap the Cards button**  to draw a random card
4. **Continue drawing** cards until the pool is empty

Managing Pools

- **Edit pools:** Tap any pool button to modify its name or items
- **Delete pools:** Enable "Delete Mode" then tap pools to remove them
- **Edit items:** Tap any item in a pool to edit or remove it

Architecture

Project Structure

```
random-card-generator/
|
├── Assets/                      # Assets
├── random_card_Generator.py     # Main application file
├── Application.kv                # Kivy UI layout file
├── requirements.txt              # Python dependencies
└── README.md                     # This file
```

Key Components

- **MainScreen:** Home screen with pool management
- **ShuffleScreen:** Card drawing and randomization interface
- **Pool Management:** Create, edit, and delete card pools
- **Data Persistence:** JSON-based storage system

Technical Details

- **Framework:** Kivy + KivyMD
- **Language:** Python 3.7+
- **UI:** Material Design components
- **Storage:** JSON file-based persistence
- **Screen Resolution:** Optimized for 360x640 (mobile) , may also work on pc

Configuration

The app includes several configurable options:

Display Settings

```
Config.set('graphics', 'width', '360')
Config.set('graphics', 'height', '640')
Config.set('graphics', 'resizable', False) # set to t
```

Theme Customization

```
self.theme_cls.theme_style = "Dark"
self.theme_cls.primary_palette = "Indigo"
self.theme_cls.accent_palette = "Amber"
```

🤝 Contributing

We welcome contributions! Here's how you can help:

Getting Started

1. Fork the repository
2. Create a feature branch (`git checkout -b feature/AmazingFeature`)
3. Commit your changes (`git commit -m 'Add some AmazingFeature'`)
4. Push to the branch (`git push origin feature/AmazingFeature`)
5. Open a Pull Request

Development Guidelines

- Follow PEP 8 style guide
- Add comments for complex logic
- Test on multiple screen sizes
- Ensure mobile compatibility

Bug Reports

Please use the GitHub issue tracker to report bugs. Include:

- Device/OS information
- Steps to reproduce
- Expected vs actual behavior
- Screenshots if applicable

📋 Requirements

```
kivy>=2.1.0
kivymd>=1.1.1
```

Version History

v1.0.0 (Current)

- Initial release
- Basic pool creation and management
- Random card selection
- Data persistence
- Material Design UI
- Mobile optimization

Planned Features

-  Import/Export functionality
-  Pool sharing capabilities
-  Statistics and history
-  Custom themes
-  Backup to cloud

Known Issues

- Performance may slow with very large pools (>1000 items)
- Text truncation on very long item names
- Minor UI adjustments needed for tablet layouts

License

This project is licensed under the MIT License - see the [LICENSE](#) file for details.

Acknowledgments

- **Kivy Team** - For the amazing Python mobile framework
- **KivyMD Team** - For beautiful Material Design components
- **Python Community** - For continuous support and resources

Support

- **Issues:** [GitHub Issues](#)
- **Documentation:** [Wiki](#)
- **Discussions:** [GitHub Discussions](#)

Made with ❤️ and Python

If you find this project useful, please consider giving it a ⭐ star on GitHub!