

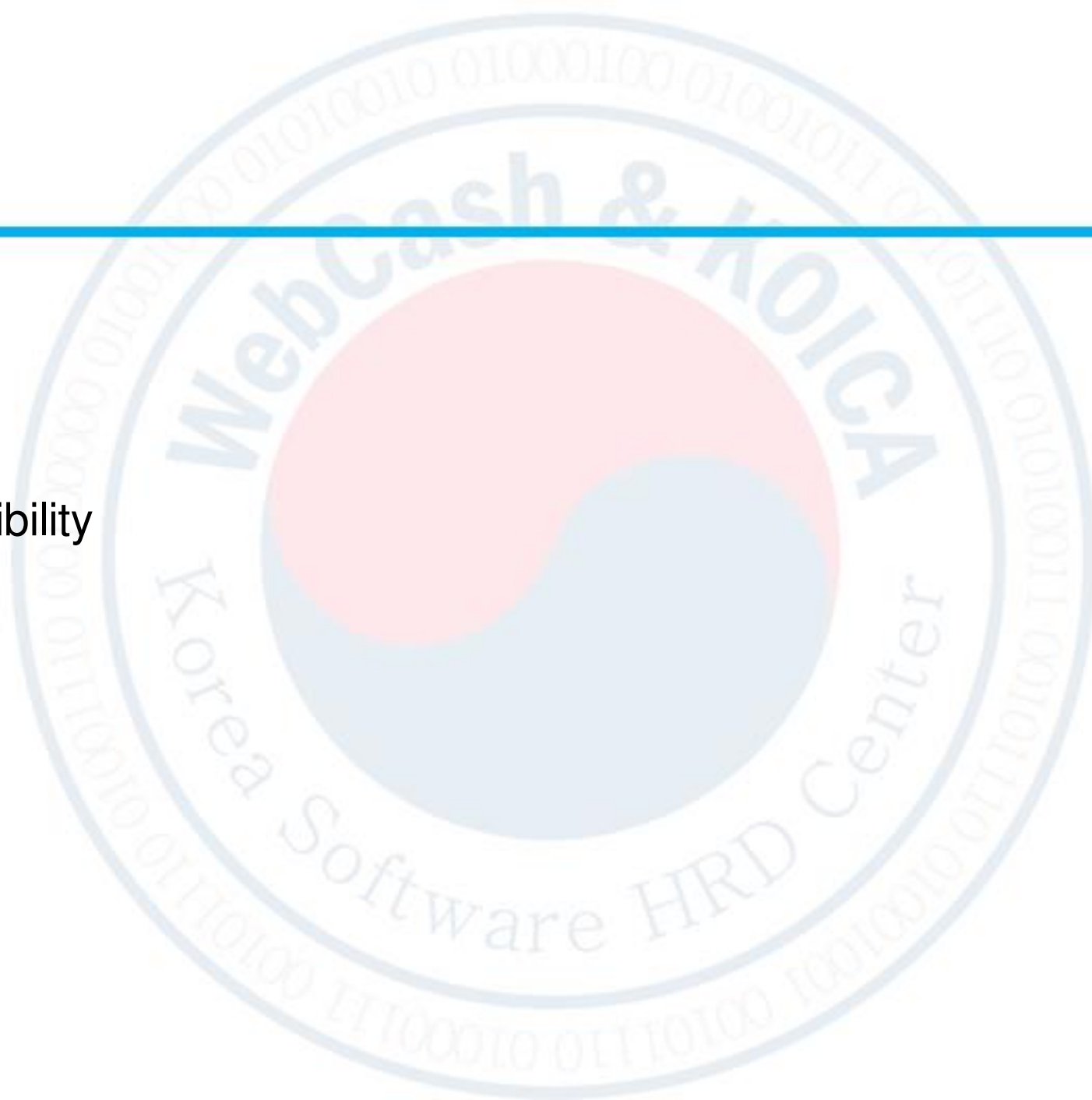


**បណ្ណបណ្ណាលក្នុង សម្បត្តិ អេច អ ឌី**

**Korea Software HRD Center**

# **MVP Android Clean Architecture Design Pattern**

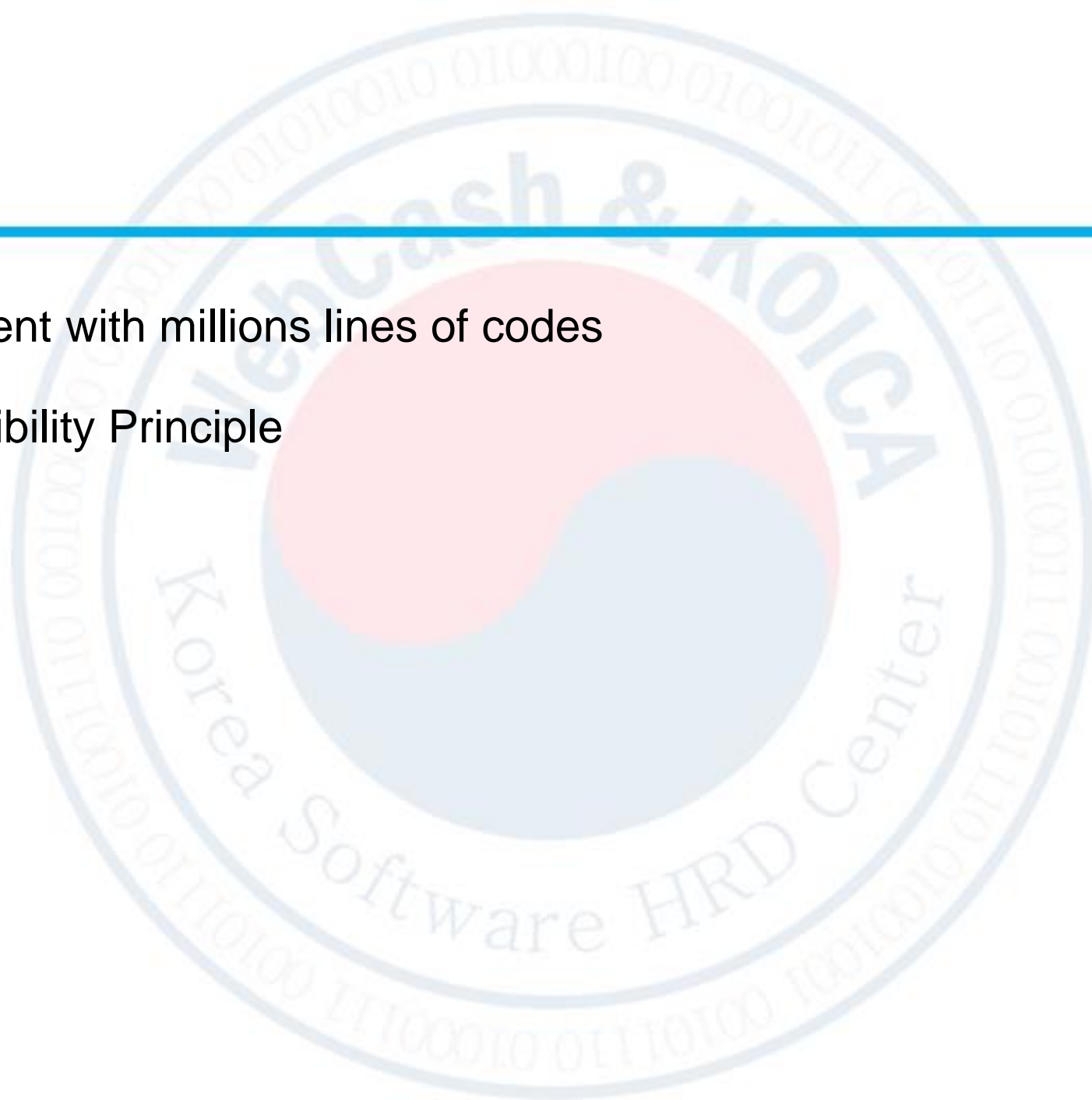
1. Problem
2. Why MVP?
3. MVP Responsibility



# 1. Problem

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- Activity / Fragment with millions lines of codes
- Single Responsibility Principle



# 1. Why MVP?

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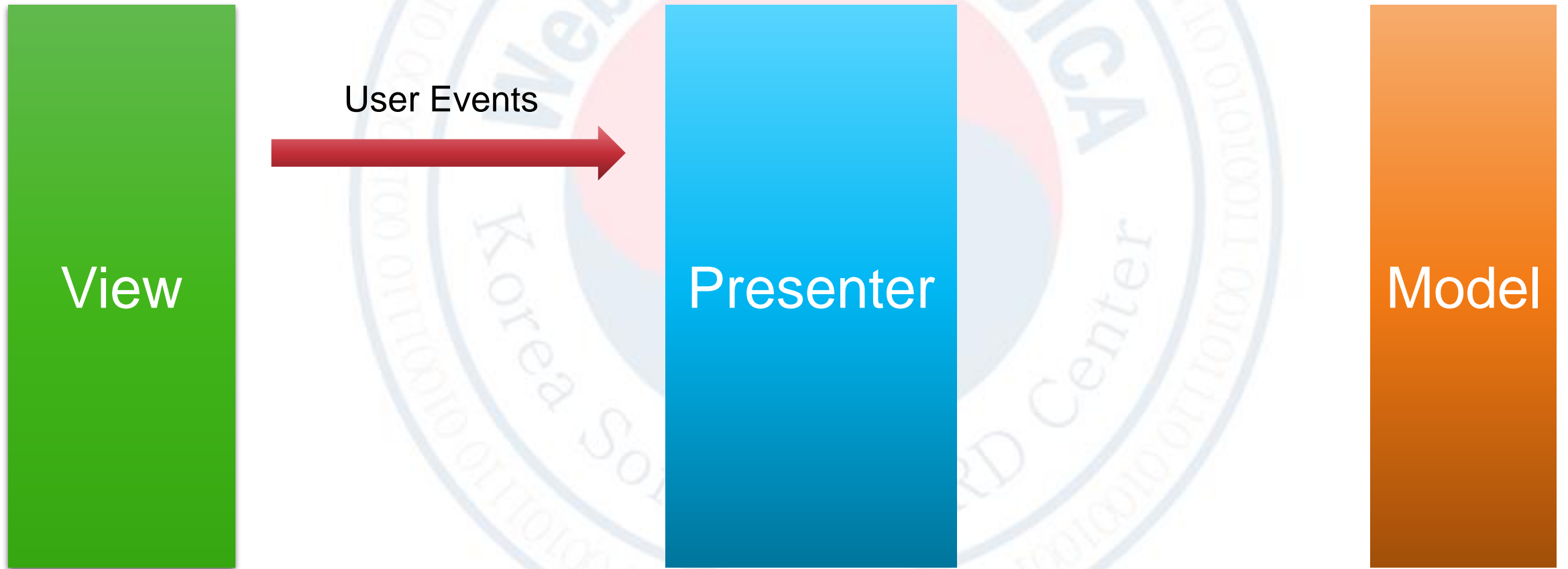
- Totally decoupled
- Each Class has Single Responsibility
- Each layer can easily testable separately
- Easy to maintain

### 3. MVP Responsibility

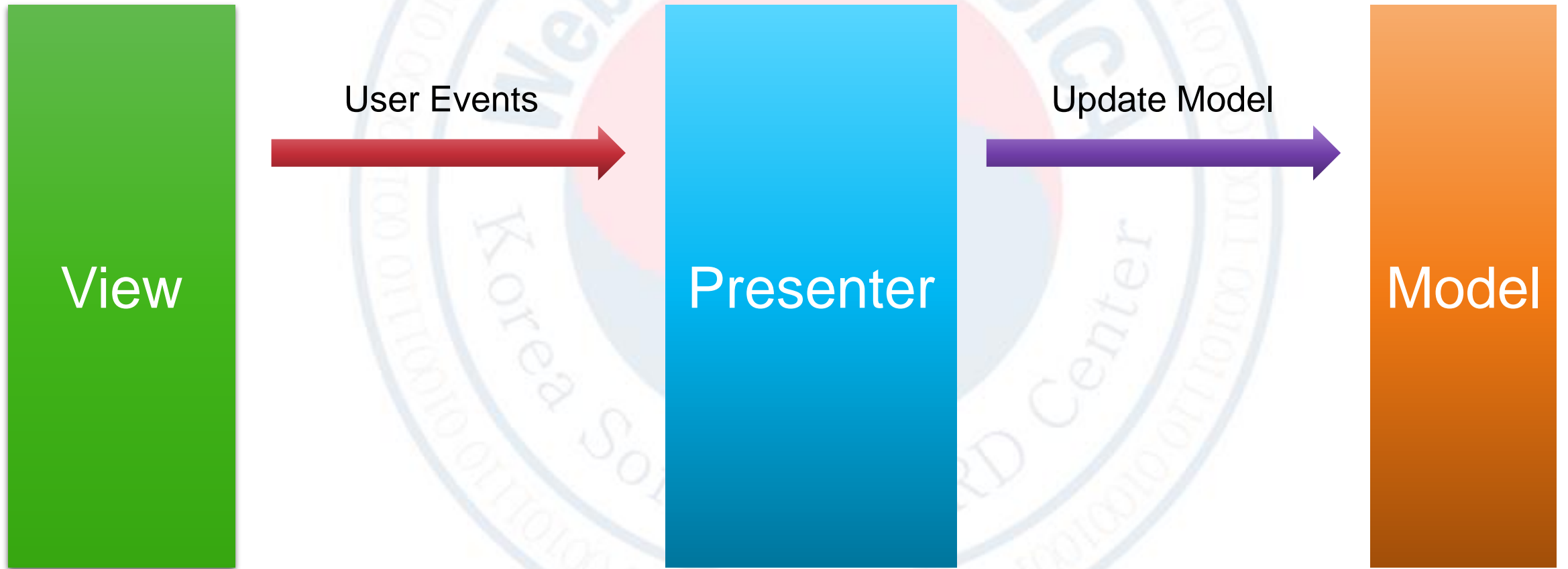
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- Model defines the data to display
- View is a passive interface that displays data and route user events
- Presenter retrieves data from Model and notify the view to display it ☺

### 3. MVP Responsibility

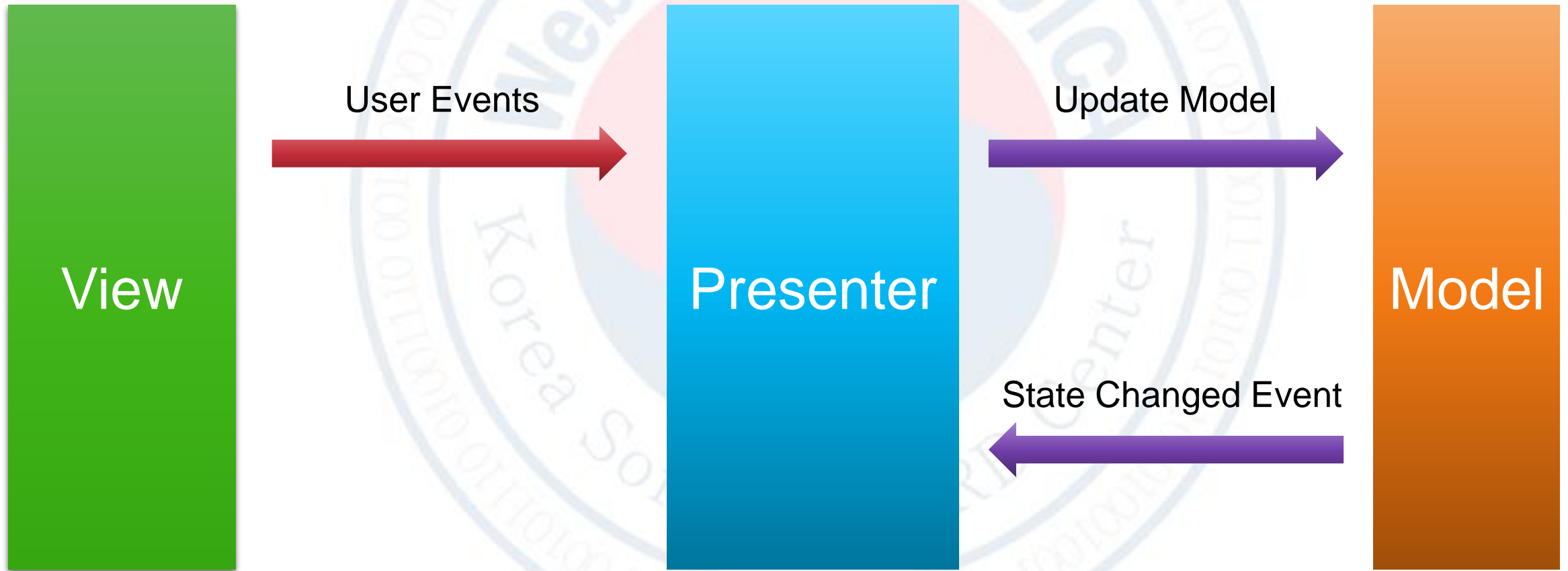


### 3. MVP Responsibility



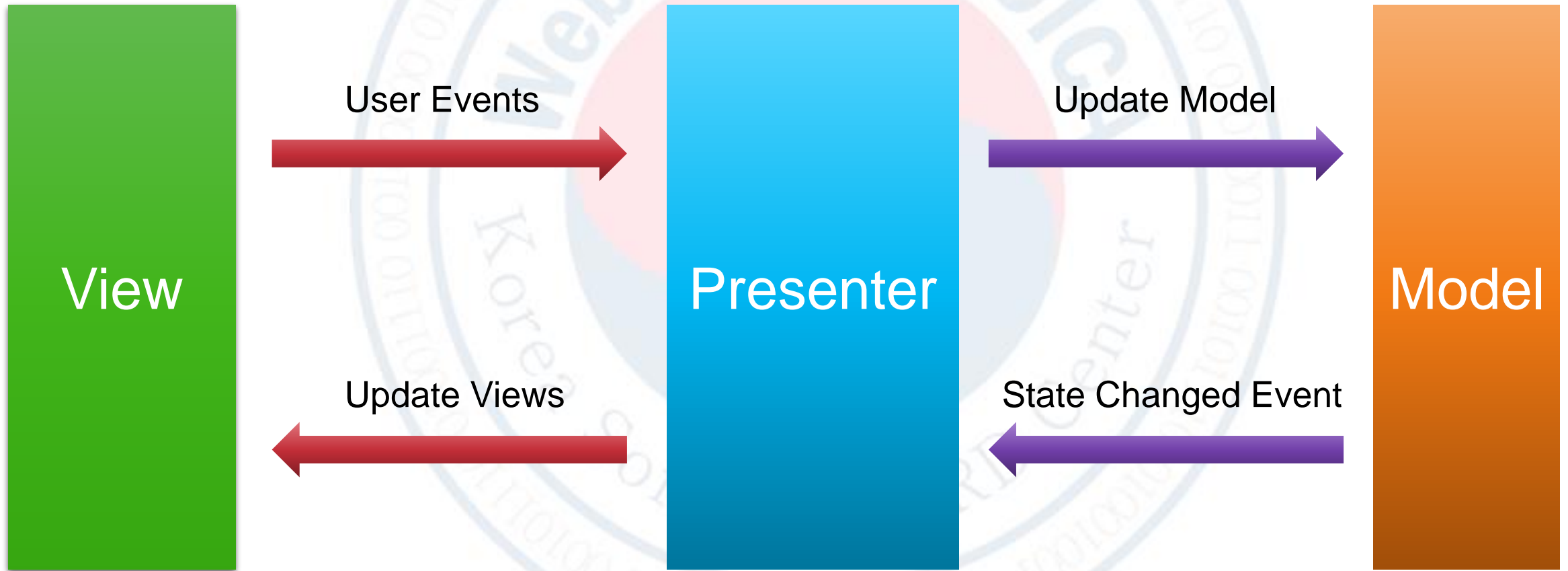


### 3. MVP Responsibility

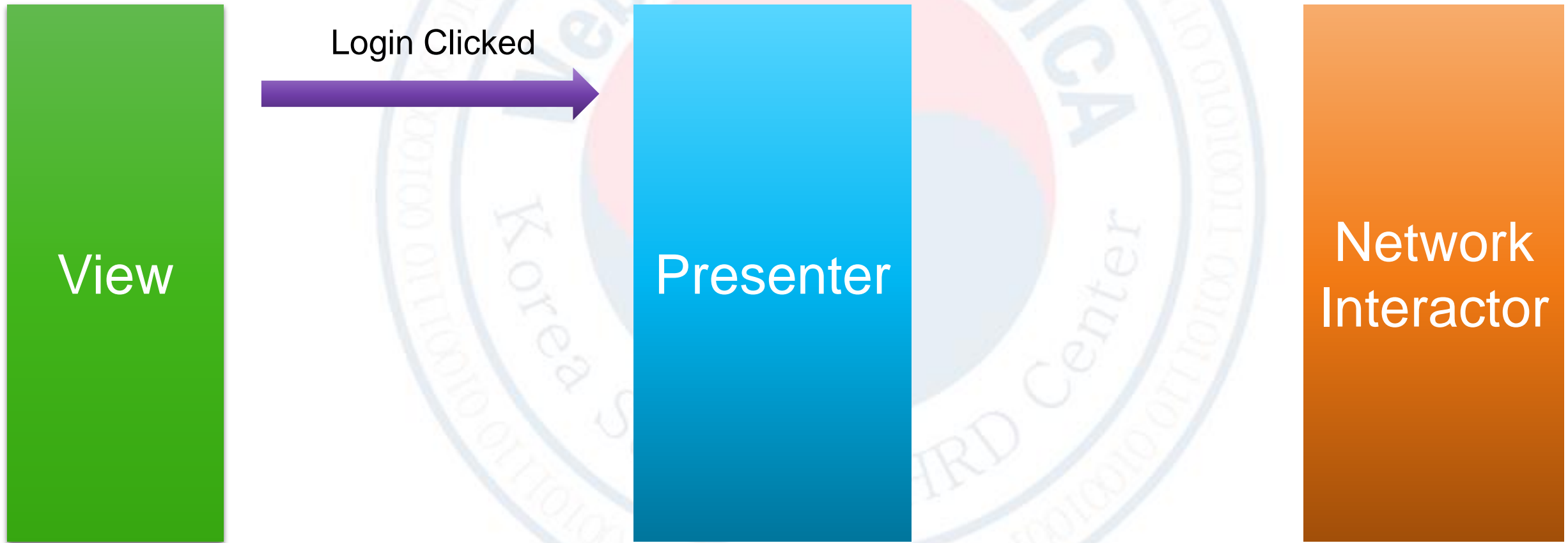




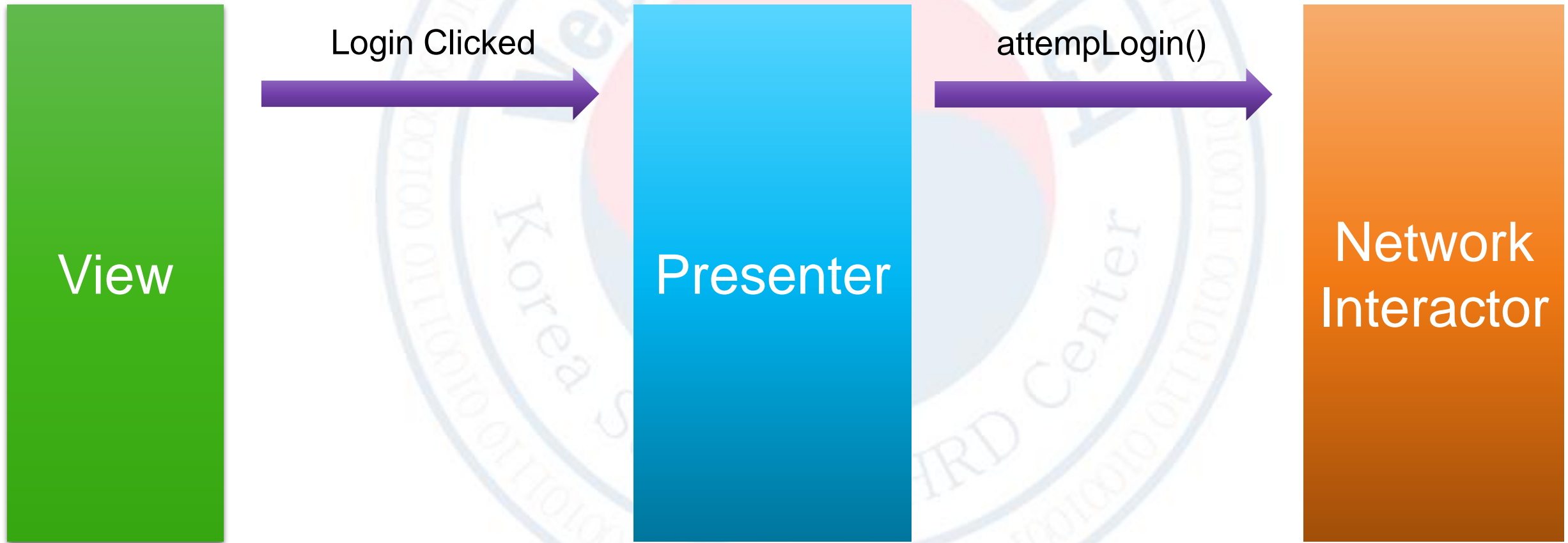
### 3. MVP Responsibility



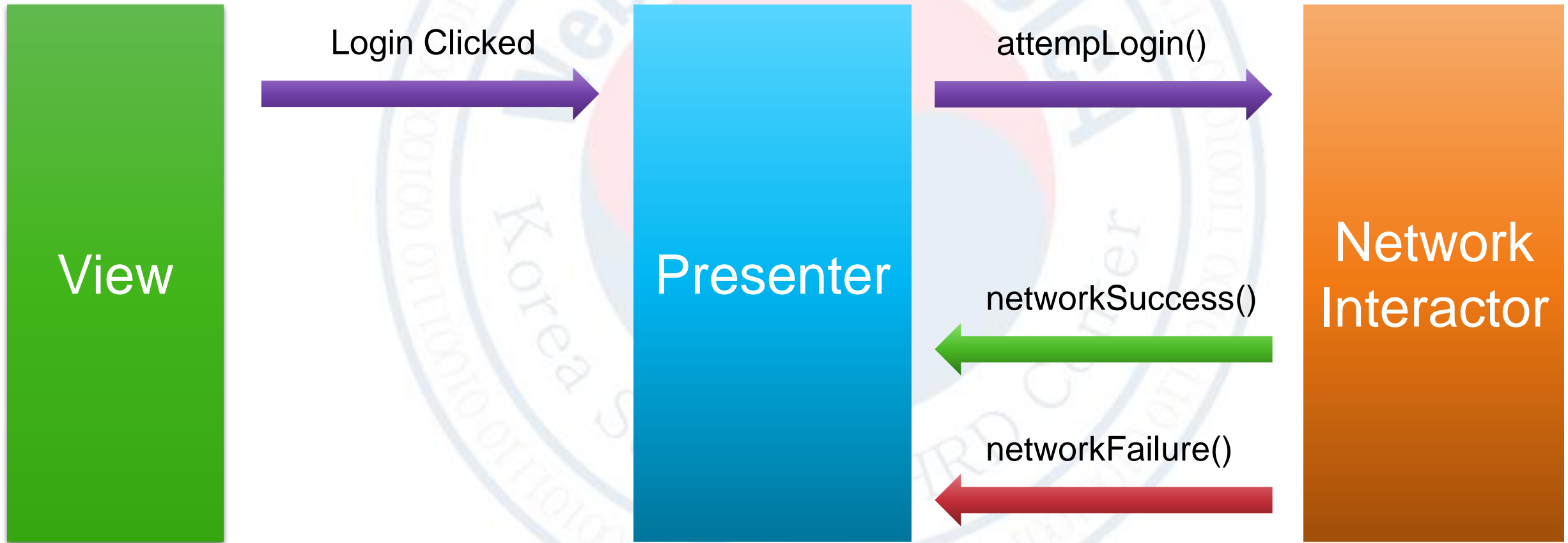
# Login MVP



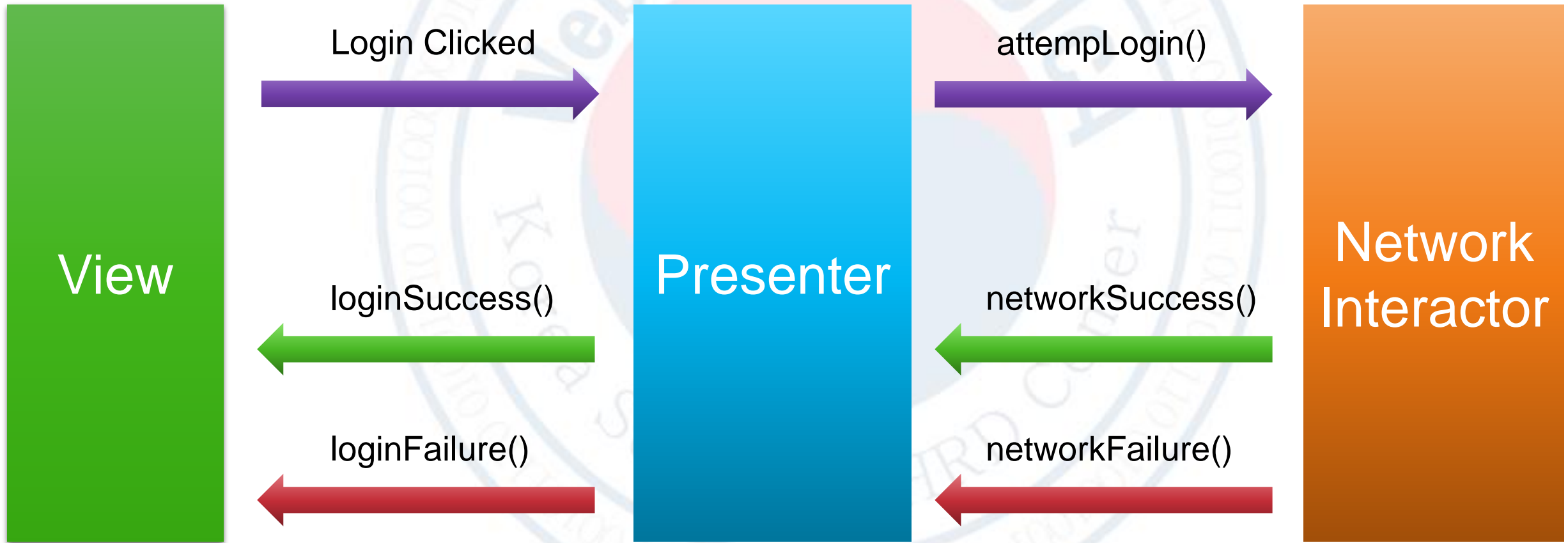
# Login MVP



# Login MVP



# Login MVP



## 4. Rule

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### View

- Activity, Fragment
- Contain a reference of Presenter
- Delegate events from UI to Presenter (OnClick, lifecycle events...)
- Contain methods which control the presentation of data  
ex: Show / Hide loading layout, update RecyclerView, etc...

## 4. Rule

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### Presenter

- Is a simple Java class
- Must not contain any Android Dependency
- Is the Middle-man between View and Model
- Contain a reference of View and Model
- Update UI By calling the View
- Connection from / to Presenter are done via Interface



## 4. Rule

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### Interactor (Model)

- Is the gateway towards the business logic
- Must not contain any Android Dependency
- Contain methods for data retrieval