

Kernmodule

Game-development blok 2

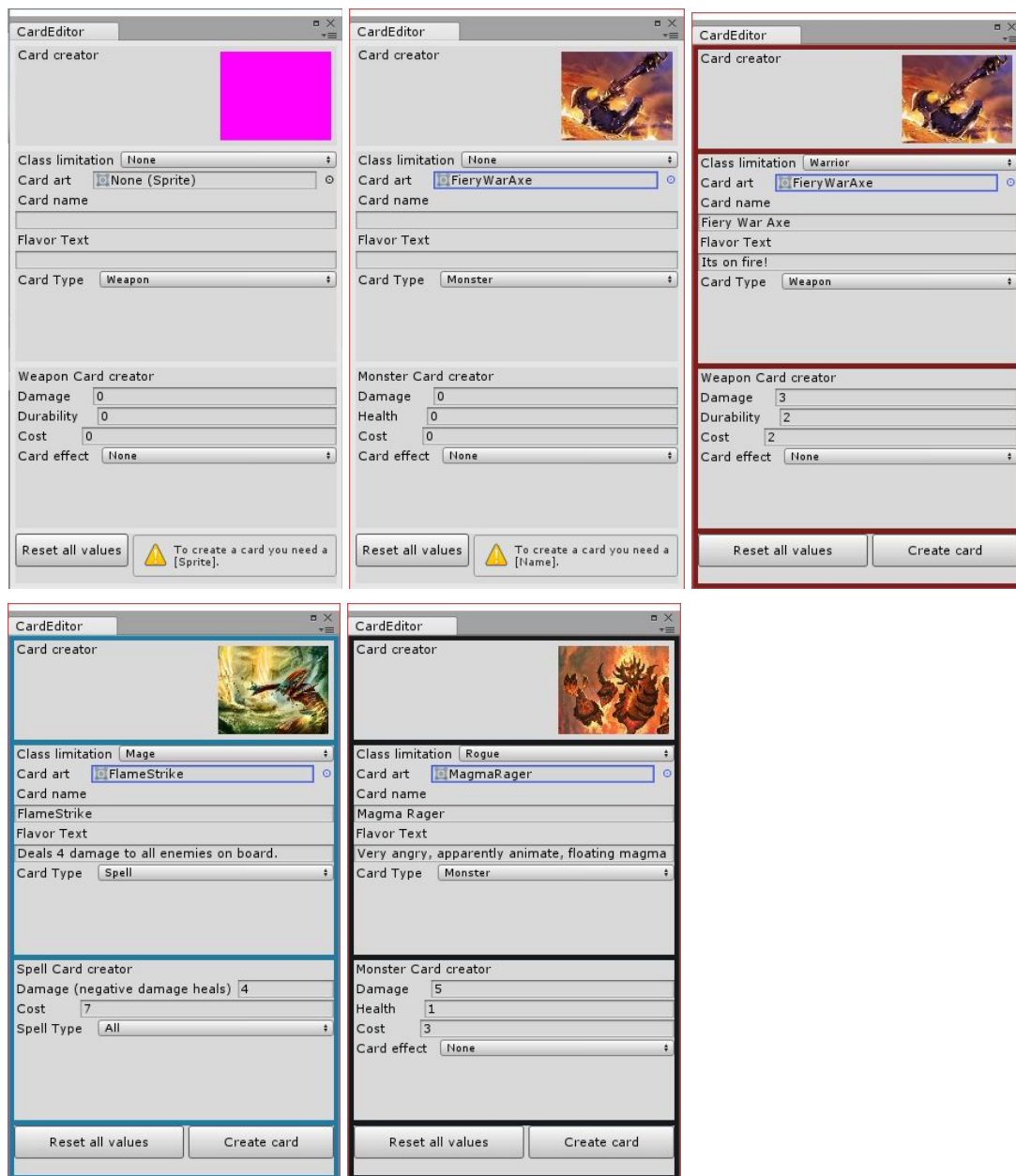
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Inhouds Opgave

Uitleg tool	2
Main tool	2
“Buddy”-systeem	3
Code snippets conversietool	4
UML	6
Activity diagram	7
Links	8

Uitleg tool

Main tool



Met deze tool kan je je eigen Hearthstone-achtige kaarten maken. Dit doe je door de invulvelden in te vullen.

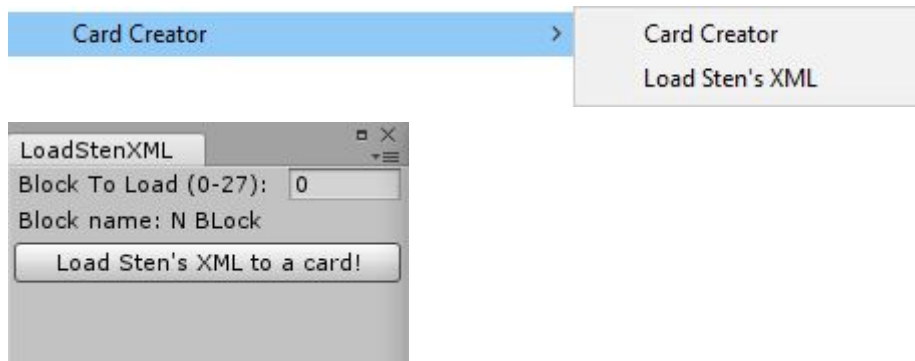
Aan de hand van de geselecteerde class verandert de trim van de tool.

Aan de hand van de geselecteerde kaart (weapon, monster, spell) wordt het onderste paneel aangepast. Dit is om de cutter van het scherm te minimaliseren.

Een kaart moet minimaal een sprite en naam hebben, anders kan je niet op de "create" knop klikken.

“Buddy”-systeem

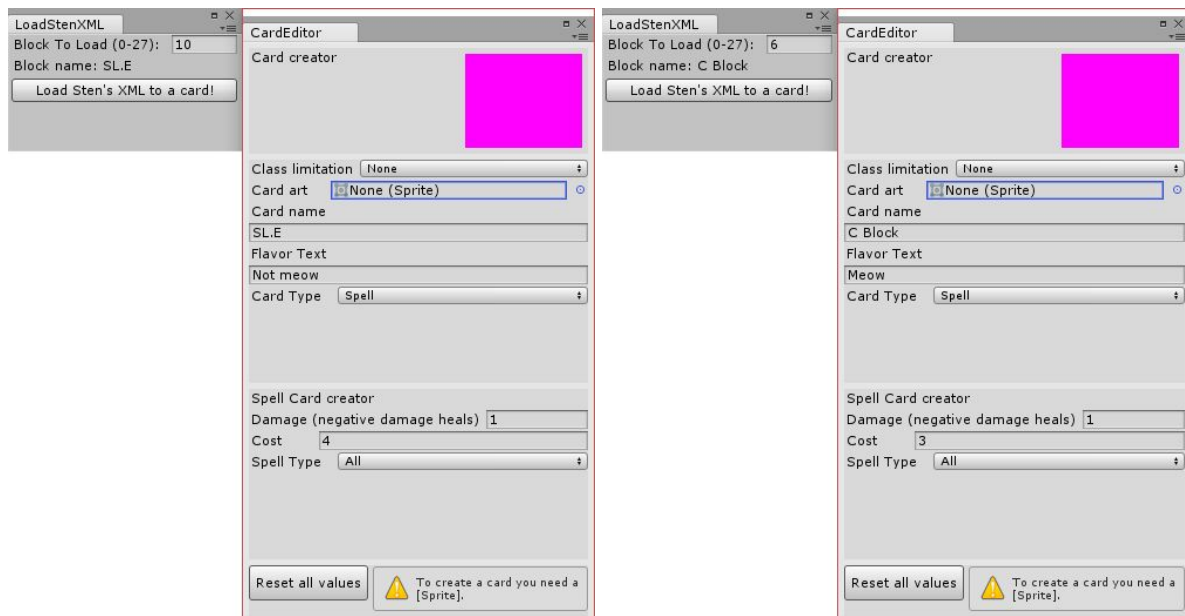
De data is van Sten Duindam.



Dit is een aparte editor window om de XML data van Sten's Block-creator tool om te zetten en er een kaart van te genereren.

Tool in werking:

<https://gyazo.com/84f810b546f9229844148b54cbfe2346>



Code snippets conversietool

```
public void LoadCardData() {
    XmlSerializer xmlSerializer = new XmlSerializer(typeof(BlockDataContainer));
    string path = resourcesPath + "/XML_5ten/Block_XML.xml";
    FileStream fileStream = new FileStream(path, FileMode.Open);
    container = xmlSerializer.Deserialize(fileStream) as BlockDataContainer;
    containerLength = container.createdBlockList.Count;
    fileStream.Close();
}

private void SetupReflection() {
    LoadCardData();
    CardDataReflection reflection = new CardDataReflection();
    BlockData loadedBlock = container.createdBlockList[blockToLoad];
    reflection.name = loadedBlock.name;
    reflection.FlavorText = loadedBlock.cat;
    reflection.CardType = loadedBlock.tier;
    reflection.health = loadedBlock.xSize;
    reflection.damage = loadedBlock.ySize;
    reflection.cost = loadedBlock.tier;
    SubmitReflection(reflection);
}

private void SubmitReflection(CardDataReflection reflection) { ... }
```

```
switch(reflection.cardType) {
    case CardData.CardType.monster:
        CardEditor.selectedCard = CardEditor.SelectedCard.monster;
        CardEditor.monsterCard.dmg = reflection.damage;
        CardEditor.monsterCard.hp = reflection.health;
        CardEditor.monsterCard.name = reflection.name;
        CardEditor.monsterCard.sprite = reflection.sprite;
        CardEditor.monsterCard.cost = reflection.cost;
        CardEditor.monsterCard.flavorText = reflection.flavorText;
        break;
    case CardData.CardType.spell:
        CardEditor.selectedCard = CardEditor.SelectedCard.spell;
        CardEditor.spellCard.dmg = reflection.damage;
        CardEditor.spellCard.name = reflection.name;
        CardEditor.spellCard.sprite = reflection.sprite;
        CardEditor.spellCard.cost = reflection.cost;
        CardEditor.spellCard.flavorText = reflection.flavorText;
        break;
    case CardData.CardType.weapon:
        CardEditor.selectedCard = CardEditor.SelectedCard.weapon;
        CardEditor.weaponCard.dmg = reflection.damage;
        CardEditor.weaponCard.durability = reflection.health;
        CardEditor.weaponCard.name = reflection.name;
        CardEditor.weaponCard.sprite = reflection.sprite;
        CardEditor.weaponCard.cost = reflection.cost;
        CardEditor.weaponCard.flavorText = reflection.flavorText;
        break;
}
```

```
//input cat value from XML
public int FlavorText {
    set {
        if(value == 0)
            flavorText = "Not meow";
        else
            flavorText = "Meow";
    }
}
```

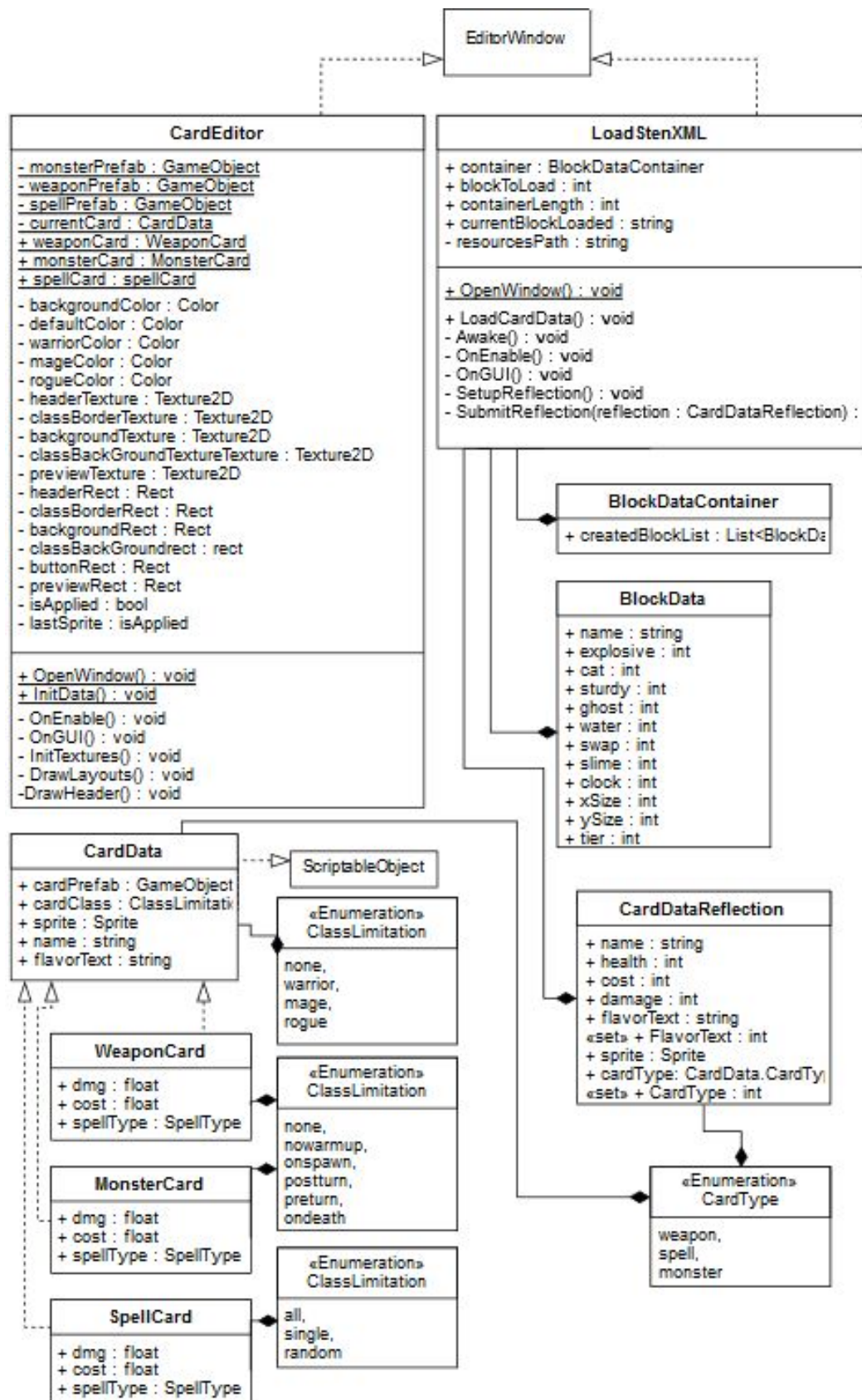
```
public CardData.CardType cardType;
public int CardType {
    set {
        switch(value) {
            case 1:
                cardType = CardData.CardType.monster;
                break;
            case 2:
                cardType = CardData.CardType.monster;
                break;
            case 3:
                cardType = CardData.CardType.spell;
                break;
            case 4:
                cardType = CardData.CardType.spell;
                break;
            case 5:
                cardType = CardData.CardType.weapon;
                break;
            case 6:
                cardType = CardData.CardType.weapon;
                break;
            default:
                cardType = CardData.CardType.monster;
                break;
        }
    }
}
```

Omdat Sten in zijn XML alleen een naam als string heeft staan en de rest als int, heb ik voor mijn flavorText zijn 0/1 int systeem als een boolean gebruikt. Om de cardType te bepalen heb ik aan de hand van de “tiers” van zijn blokken bepaald of een kaart een monster, weapon of spell is.

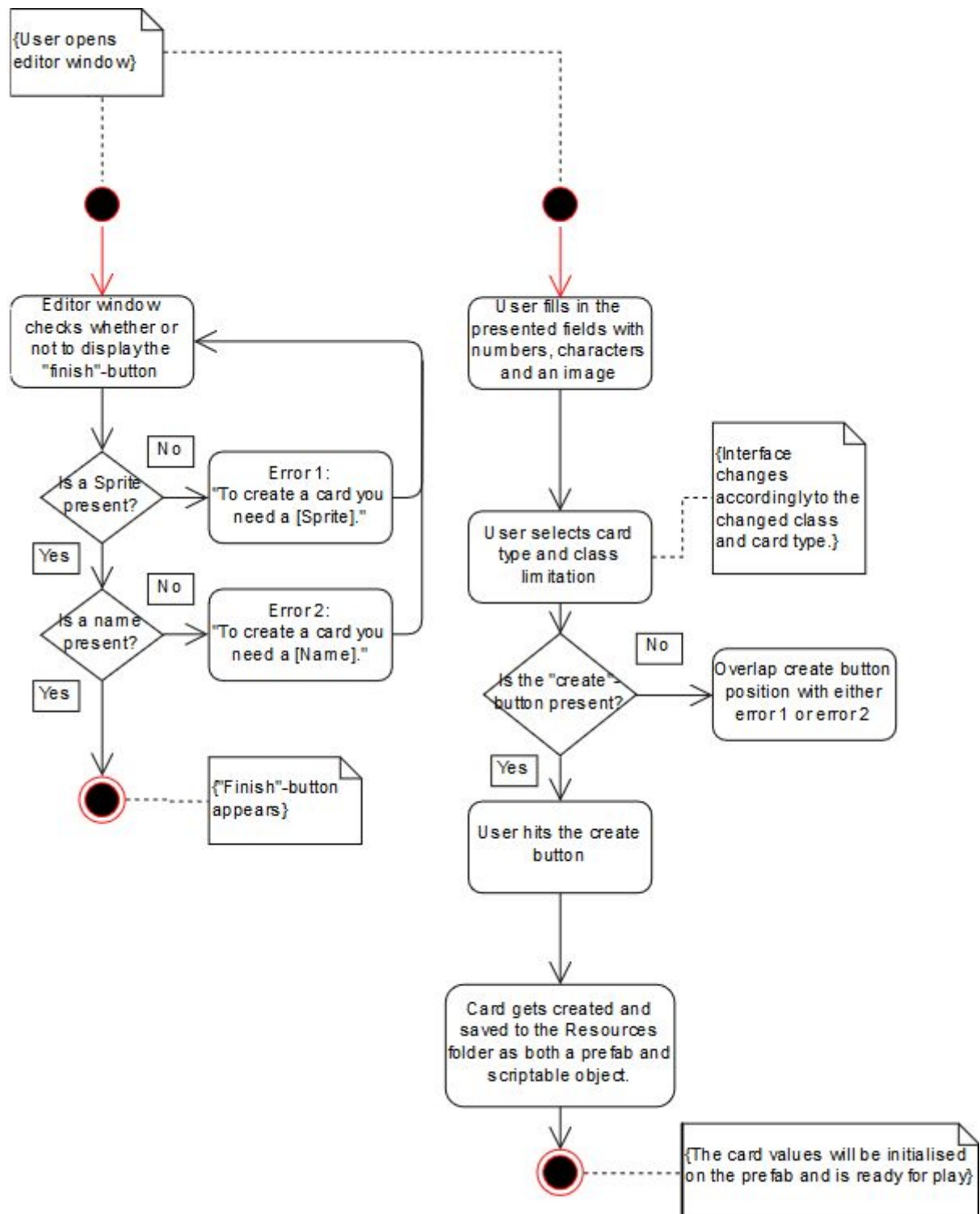
```
<BlockData Name="C Block">
  <explosive>0</explosive>
  <cat>1</cat>
  <sturdy>0</sturdy>
  <ghost>0</ghost>
  <water>0</water>
  <swap>0</swap>
  <slime>0</slime>
  <clock>0</clock>
  <xSize>1</xSize>
  <ySize>1</ySize>
  <tier>3</tier>
</BlockData>
```

Sten's UML format

UML



Activity diagram



Links

Github:

<https://github.com/VincentCreveld/KGDEVblok2>

Youtube:

<https://www.youtube.com/watch?v=WLldWH5YV9k>

“Buddy”-systeem tool in werking: Tool in werking:

<https://gyazo.com/84f810b546f9229844148b54cbfe2346>