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**nappydevelopment**

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**Nappy, the ingenious  
Software Architecture Document**

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| Nappy, the ingenious           | Version: 1.1     |
| Software Architecture Document | Date: 18/11/2015 |

## Revision History

| Date     | Version | Description   | Author              |
|----------|---------|---------------|---------------------|
| 12/11/15 | 1.0     | First version | Mehmet Ali Incekara |
| 28/11/15 | 1.1     | Add SRS ref.  | Mehmet Ali Incekara |
|          |         |               |                     |
|          |         |               |                     |

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# Software Architecture Document

## 1. Introduction

### 1.1 Purpose

This document provides an architectural overview of Nappy, the ingenious in aspects of different architectural views.

### 1.2 Definitions, Acronyms, and Abbreviations

|     |                                |
|-----|--------------------------------|
| SAD | Software Architecture Document |
| MVC | Model-View-Controller          |
|     |                                |

### 1.3 References

GitHub-Docs: <https://github.com/nappydevelopment/docs>

SRS:

<https://github.com/nappydevelopment/docs/blob/master/pdfs/Software%20Requirements%20Specification.pdf>

## 2. Architectural Representation

The project Nappy, the ingenious will use the MVC-principles.

## 3. Architectural Goals and Constraints

The main goal of this architecture is to separate the view from the logic. The view is “stupid” and knows nothing.

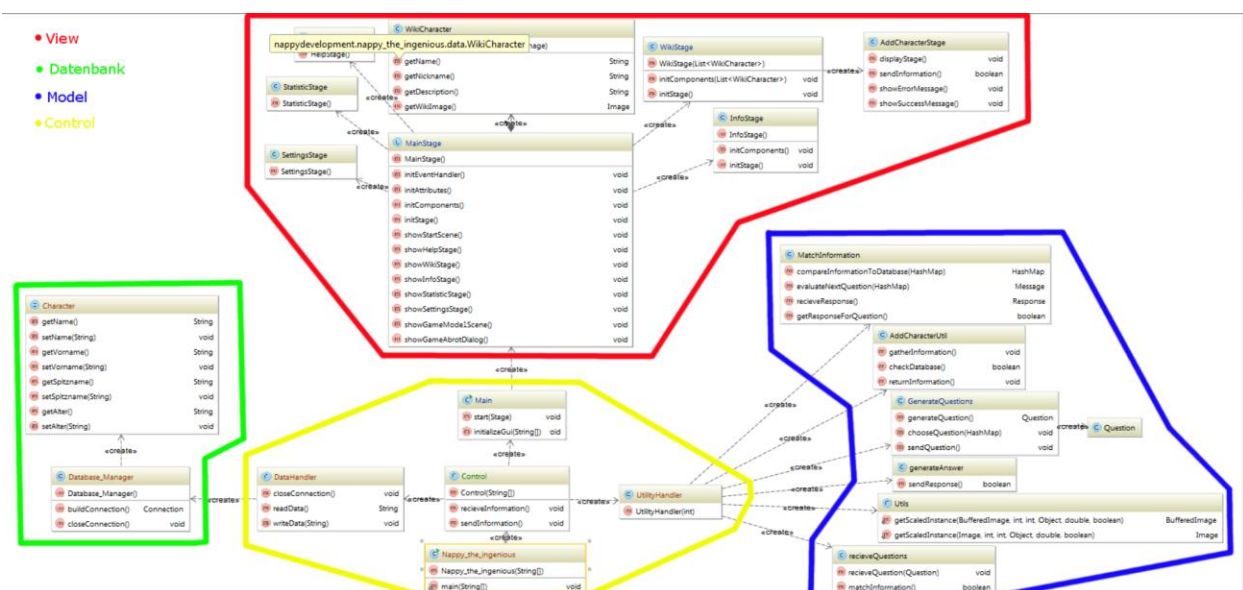
We will use the Framework from JavaFX for our project.

## 4. Use-Case View

(n/a)

## 5. Logical View

### 5.1 Overview



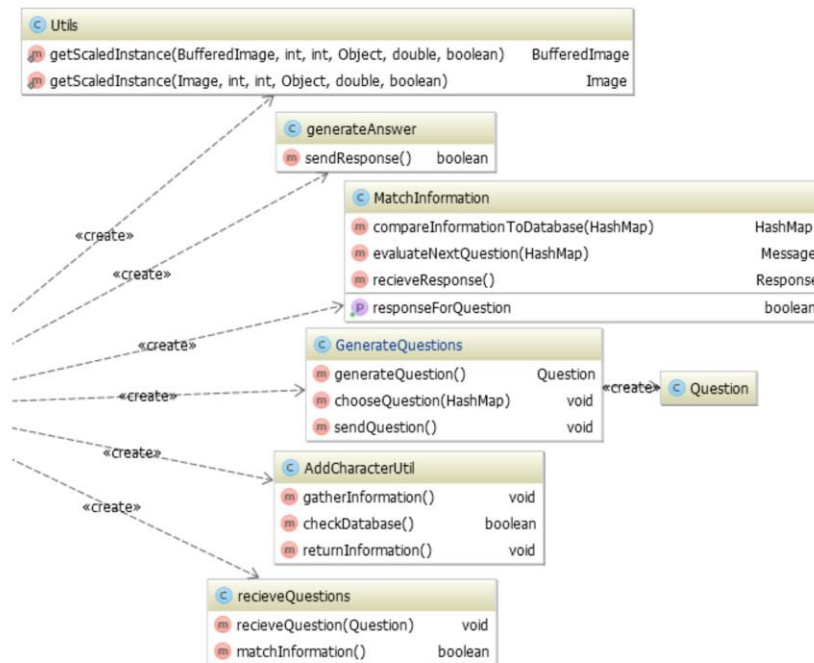
|                                |                  |
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You can also find this picture (a little bit bigger) on GitHub:

[https://github.com/nappydevelopment/docs/blob/master/pdfs/Class\\_Diagramm.pdf](https://github.com/nappydevelopment/docs/blob/master/pdfs/Class_Diagramm.pdf)

## 5.2 Separated view

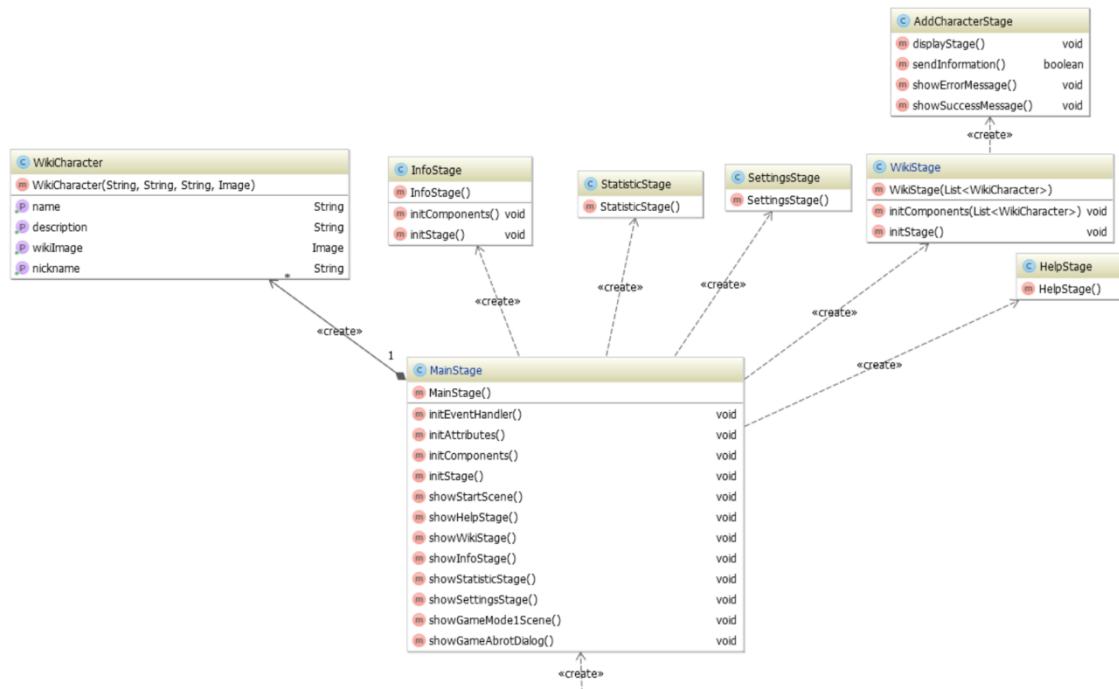
### 5.2.1 Model



[https://github.com/nappydevelopment/docs/blob/master/pdfs/Model\\_Class\\_Diagramm.pdf](https://github.com/nappydevelopment/docs/blob/master/pdfs/Model_Class_Diagramm.pdf)

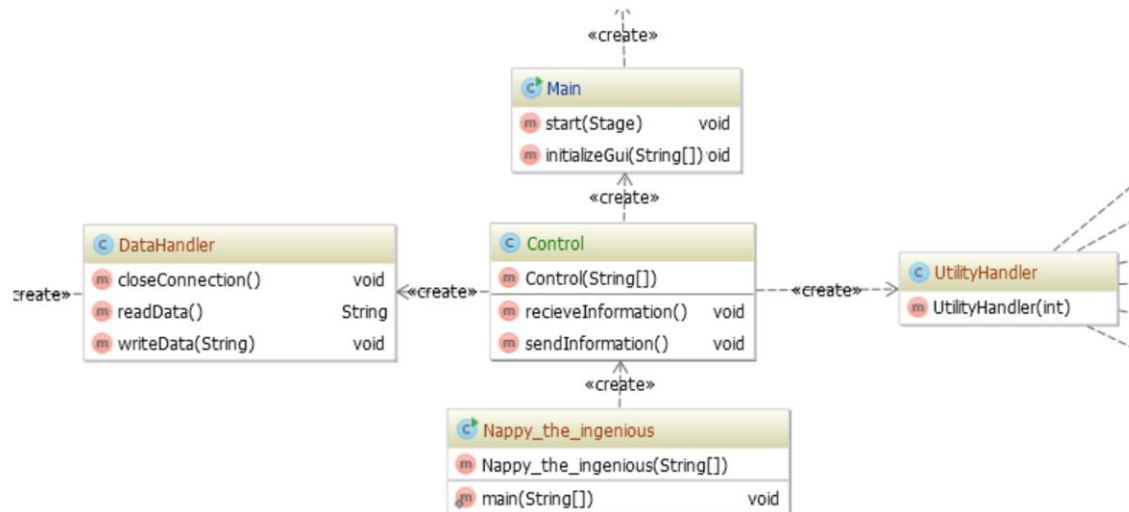
|                                |                  |
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### 5.2.2 View



[https://github.com/nappydevelopment/docs/blob/master/pdfs/View\\_Class\\_Diagramm.pdf](https://github.com/nappydevelopment/docs/blob/master/pdfs/View_Class_Diagramm.pdf)

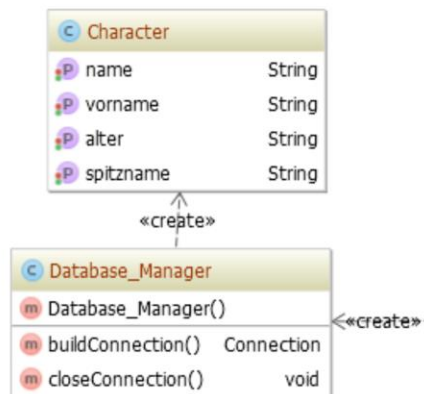
### 5.2.3 Control



[https://github.com/nappydevelopment/docs/blob/master/pdfs/Control\\_Class\\_Diagramm.pdf](https://github.com/nappydevelopment/docs/blob/master/pdfs/Control_Class_Diagramm.pdf)

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#### 5.2.4 Database



[https://github.com/nappydevelopment/docs/blob/master/pdfs/Datenbank\\_Class\\_Diagramm.pdf](https://github.com/nappydevelopment/docs/blob/master/pdfs/Datenbank_Class_Diagramm.pdf)

### 6. Process View

(n/a)

### 7. Deployment View

(n/a)

### 8. Implementation View

(n/a)

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## 9. Data View

| FIELD       | TYPE                |
|-------------|---------------------|
| ID          | INTEGER(10)         |
| NAME        | VARCHAR(2147483647) |
| NICKNAME    | VARCHAR(2147483647) |
| DESCRIPTION | VARCHAR(2147483647) |
| MALE        | BOOLEAN(1)          |
| HUMAN       | BOOLEAN(1)          |
| ALIVE       | BOOLEAN(1)          |
| SIMPSON     | BOOLEAN(1)          |
| AGE         | VARCHAR(2147483647) |
| JOB         | VARCHAR(2147483647) |
| FAMOUS      | BOOLEAN(1)          |
| SKINCOLOR   | VARCHAR(2147483647) |
| HAIRCOLOR   | VARCHAR(2147483647) |
| RELIGIOUS   | BOOLEAN(1)          |
| SMOKES      | BOOLEAN(1)          |
| HOMOSEXUAL  | BOOLEAN(1)          |
| AMERICAN    | BOOLEAN(1)          |
| MARRIED     | BOOLEAN(1)          |
| CHARACTER   | VARCHAR(2147483647) |
| MOESBAR     | BOOLEAN(1)          |
| FAT         | BOOLEAN(1)          |
| WEARINGS    | VARCHAR(2147483647) |

(tbd)

## 10. Size and Performance

The size and the performance are really important for our project. We are trying to keep the size of the project as small as possible. Also we will load our database into the memory to increase the performance. So we will need a few seconds until the program starts to load all pictures and the database.

## 11. Quality

The quality of our project Nappy, the ingenious is also important. We used a lot of sources to get all information about the characters and so our database has a stable foundation.