***Applied Research***

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*04-10-2022   
V0.1*

# **Versions**

|  |  |  |
| --- | --- | --- |
| **Date** | **Version** | **Description** |
| **02-09-2022** | 0.1 | Initial version |

# **Distribution list**

|  |  |  |  |
| --- | --- | --- | --- |
| **Date** | **Version** | **Name** | **Function** |
| **-2022** | 0.2 | Tim Verhees | Project Handler |

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# **Introduction**

With any projects, problems arise. Questions that need to be answered. The way these questions can be answered is through research. This project is, of course, no different. For this Yu-Gi-Oh ban list application an API will be used to pull some card data, including (but not limited to) the image of the card itself. This comes with some difficulties, seeing as the one who made the API doesn’t appreciate call after call for the image every time the application is used. This is why it will be necessary to save the image.

This however gives rise to some questions, including:

* Main question: How do I save a card image when making an API call, so it doesn’t need to in the future?
  + Sub question: How do you save images from URL’s using software?
  + Sub question: How do you implement a check whether an image already exists?
  + Sub question: How do I ensure that the external API is not overloaded with requests?

Answering these questions will greatly help in implementing the actual images of the cards in the application, which will improve the user experience.

# **Method**

There are many different ways of researching within the IT space. These range from using documentation to find out the best practices to field research by forms of trial and error. Since this problem is still quite alien to me as a developer, a **library** focussed research would probably be the best way of researching this issue.

Now within library focussed research there are several possible methods to apply but the one I chose is **Available product analysis**. This means that I will be looking at existing solutions to the sub-questions and using those to answer the main question at hand.

This means that I will work with documentation found on the internet (mainly **Google**) that help me with resolving the questions. A good example would be that if I were to find an existing application that saves images from URL’s, I could use that to find an answer. Any and all references will be documented in accordance to the APA guidelines.

# **Results**

## Sub-question 1

## Sub-question 2

## Sub-question 3

## Main-question

# **Conclusion**

# **References**