Trivial\_i1a Documentation

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### DEVELOPMENT OF THE TRIVIAL GAME

Proposal of the problem

The Game Company *NoGame* is going to start a new product line based on question/answer games that should work in several platforms. As a first step, they want to build a variant of the Trivial Pursuit game [1], although the goal is that other similar games based on question/answers could be created in the future.

In the first stage, they need to obtain a large number of questions to feed the different games. To that end, they want to build a simple application that reads files that contain the questions/answers, processes those files reporting any errors, and stores them in a database.

The files with the questions/answers will come from existing test banks. One of those test banks uses the GIFT format [2]. The application will use an internal representation of the questions using JSON format which will facilitate its storage in the database. The Company is planning to use MongoDb [3], although this decision has not yet been taken.

It is expected that the application can be executed in two phases. The first phase parses the files with the questions and generates the internal representation. The second phase takes the questions in that internal representation and stores them in the database. The execution of these 2 phases will be controlled by a company operator who could decide when he wants to execute each phase and even could automate that execution to be done at some time intervals.

It is important to warrant that the conversion is correct, easing the load process debugging. To that end, the solution that is being sought doesn’t require an interactive interface but it requires several input options (select name of file to load, input format, name of output file, output format, etc. ) and should enable to check that the internal representation of the conversion does not produce errors.

As it is planned to automate the conversion process to be executed at some specific times, the company doesn’t require the application to be very time efficient or that the conversion process can be done interactively.

Although in this first step, the company only requires the conversion from GIFT format, the company is considering that the solution should allow other formats in the future. For example, the company is considering to process also questions in XML format like QTI [3].

Identification of the stakeholders

#### Trivial Development team:

They are the ones in charge of creating the trivial game and develop the architecture in order to facilitate the creation of future trivia games.

Some of their objectives are:

- Develop the Trivial game in an efficient way, controlling the costs and following the standards of usability thinking in the final user.

- Create a reusable architecture that can be implemented in other games based on question/answer mechanisms.

#### People in charge of NoGame:

These are the directors of the corporation, in charge of the budget, from which they allocate funds for the project and administrating the different games developed.

Some of their objectives are:

- The duration of the project should be short and the costs as minimum as possible.

- Get the maximum Profit.

- Get an application whose architecture can be used in other variants of the game.

#### Development team of NoGame:

They are the ones in charge of developing future trivia game that will use the architecture developed by Trivial Development team as a help in the process.

Some of their objectives are:

- Use that architecture to facilitate the development of new versions of the game.

- Finding the best technological alternatives to implement the game, and communicating them to the Trivial Development team.

#### Players of the Game:

The final users of the product, they want to play the game in an easy and intuitive way.

Some of their objectives are:

- Playing the game in an easy way without having to spend too much time trying to understand how the application works.

Identification of the quality attributes

#### Availability

* The system must have available all the functionality 24-7(every day at any time).

#### Modifiability

* Scalability of the system, we probably may do changes in the program.
* Facility to change the parser system, the questions and answers files format.
* Facility to change the connection with the database if in the future we want to change the database administrator program.

#### Performance

* We have to make sure that our systems responds to the user in a reasonable amount of time.
* Latency should be as low as possible in order to provide the user a good experience within the application.
* Throughput (number of events that take place within a given amount of time) should be as high as possible.

#### Security

* We have to ensure the security and strength of the system.
* We have to provide a good architecture in order to avoid non-ethical attack against our system that try to break into the server or that try to mislead the system.
* The system should be able to avoid DDoS attacks (very important in an application like this one).

#### Usability

* The system must be the most intuitive as possible, in order to help the user to understand its functioning.
* A manual must be available for any user that doesn't understand how to use the system.

#### Adaptability

* The system must work for any operating system.

#### Time to market

* Short development cycle

#### Cost-Benefit

* Null development cost

First approach to the solution

#### First approach

Once we have analyzed the requirements of the system, we have arrived to a possible solution based on a Batch system. That is a way of reducing the interation with the user avoiding an extra cost in specialized operators of the system focused on managing the translation and the databe. This solution will be formed of an application that will process text files with different formats extracting its content and storing it in a database.

#### Risks related to the solution

1. Guarantee of the database integrity in case of erroneous data introduce.
2. Protection against the introduction of not valid data both the parser and the database.

To avoid the problems caused by the risks mentioned, the following solutions are proposed:

1. Creating a backup of the database.
2. Creating a series of preconditions and exceptions that controls the flow of data that enters the system.

Quality attributes and stakeholders

|  |  |  |  |
| --- | --- | --- | --- |
| Stakeholders  vs  Attributes | ST-01 | ST-02 | ST-03 |
| AT001 |  | X |  |
| AT002 | X |  | X |
| AT003 | X |  | X |
| AT004 |  |  | X |
| AT005 |  | X | X |
| AT006 |  | X | X |
| AT007 |  | X | X |
| AT008 | X | X | X |
| AT009 | X | X | X |
| AT010 | X | X | X |
| AT011 |  | X | X |
| AT012 |  |  | X |
| AT013 |  |  | X |
| AT014 | X | X |  |
| AT015 | X | X |  |

Business description of the solution

In our application we will have 2 differentiated systems

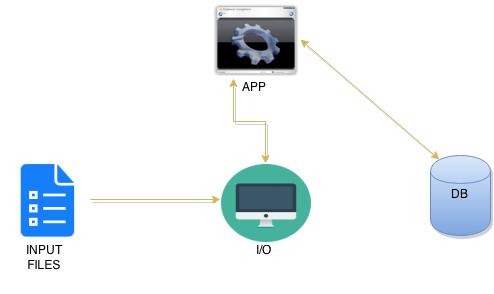
#### The Parser:

This section of the system will be the one in charge of reading and processing the input files with the questions and send it to the database.

It will have the responsibility of taking care that the format of file is respected and will rise and exception it case it contains non fitting information.

#### The Database:

Will store the information formatted by the parser until the future games will request it.

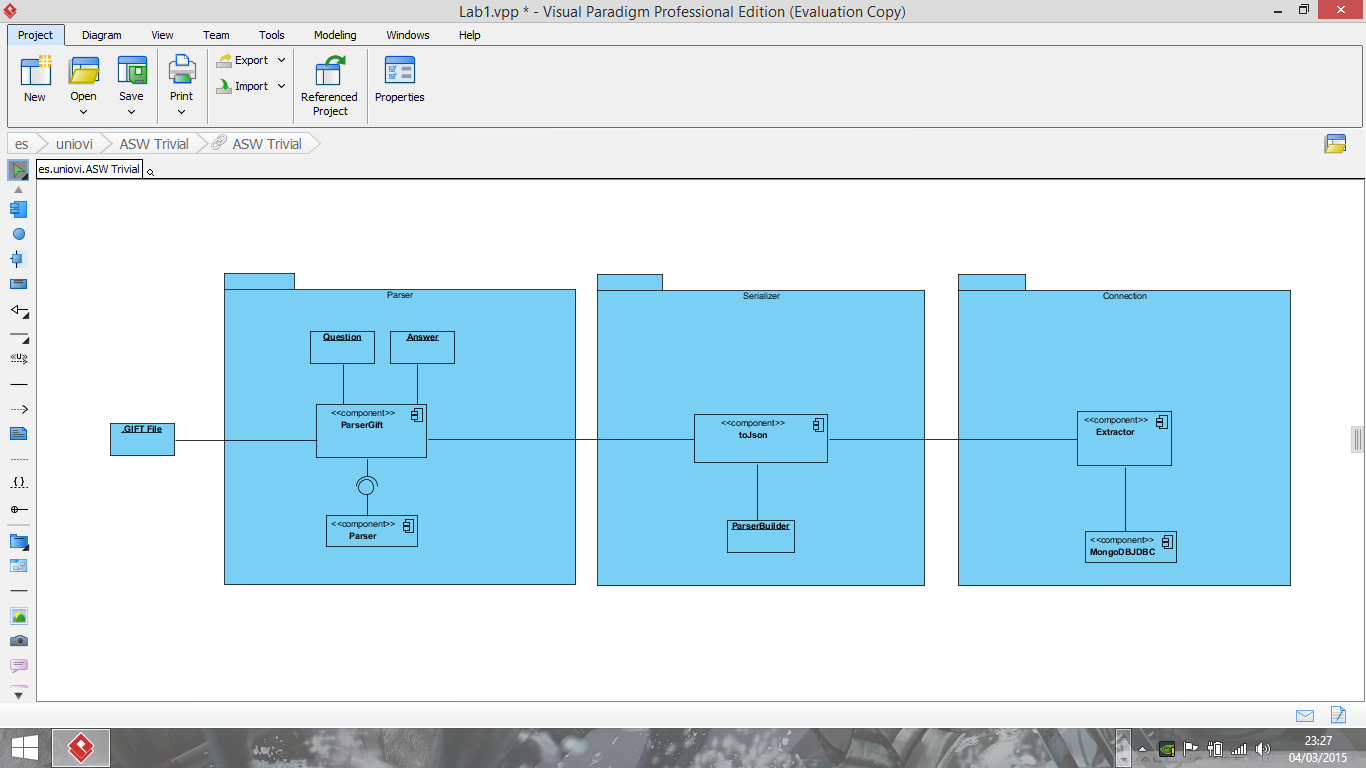


Quality scenarios



Component Diagram

# ASW Trivial



## Summary

|  |  |
| --- | --- |
| Name | Description |
| Image1.png [Parser](#czgcQ9KGAqAADg6t) | Parser package that reads the gift. |
| Image1.png [Serializer](#M1fFZ9KGAqCgAQp7) | Part in charge of transforming the information processed by the parser |
| Image1.png [Connection](#rTK8Q9KGAqAADg8i) | Part in charge of the connection to the database. |
| Image2.png [Question](#gb01Z9KGAqCgAQul) | Question class in charge of getting the questions. |
| Image2.png [Answer](#Mqs1Z9KGAqCgAQuv) | Answer class in charge of getting the answers. |
| Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) | This is the parser instance in charge of analyse gift files. |
| Image3.png [Extractor](#MmJCQ9KGAqAADg9G) | Manage all the interactions with the data. |
| Image3.png [toJson](#cVCcQ9KGAqAADg7a) | Converts every question and answer into JSON. |
| Image2.png [.GIFT File](#Dd6cQ9KGAqAADg7i) | It is a file that contains all the questions and answers. |
| Image3.png [Parser](#UR11Z9KGAqCgAQws) | Parser interface which goal is adapt the application to other formats. |
| Image2.png [ParserBuilder](#fPItZ9KGAqCgAQ2T) | Manage the upload of data to the database |
| Image3.png [MongoDBJDBC](#O41CQ9KGAqAADg9W) | Performs the connection with the database. |

## Details

### Image4.png Parser

|  |  |
| --- | --- |
| Name | Value |
| Description | Parser package that reads the gift |
| Abstract | false |
| Leaf | false |
| Root | false |
| Visibility | public |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:30:32 | | Last Modified | 04-mar-2015 23:02:24 | |

#### Children

|  |  |
| --- | --- |
| Name | Description |
| Image2.png [Question](#gb01Z9KGAqCgAQul) | Question class in charge of getting the questions |
| Image2.png [Answer](#Mqs1Z9KGAqCgAQuv) | Answer class in charge of getting the answers. |
| Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) | This is the parser instance in charge of analyse gift files. |
| Image5.png [N/A](#5FTdZ9KGAqCgAQ7q) | Interface relation between the Parser and the ParserGift |
| Image3.png [Parser](#UR11Z9KGAqCgAQws) | Parser interface which goal is adapt the application to other formats |

### Image4.png Serializer

|  |  |
| --- | --- |
| Name | Value |
| Description | Part in charge of transforming the information processed by the parser |
| Abstract | false |
| Leaf | false |
| Root | false |
| Visibility | public |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:14:37 | | Last Modified | 04-mar-2015 23:12:24 | |

#### Children

|  |  |
| --- | --- |
| Name | Description |
| Image3.png [toJson](#cVCcQ9KGAqAADg7a) | Converts a every question and answer into JSON |
| Image2.png [ParserBuilder](#fPItZ9KGAqCgAQ2T) | Manage the data upload to the database |

### Image4.png Connection

|  |  |
| --- | --- |
| Name | Value |
| Description | Part in charge of the connection to the database. |
| Abstract | false |
| Leaf | false |
| Root | false |
| Visibility | public |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:36:12 | | Last Modified | 04-mar-2015 23:12:24 | |

#### Children

|  |  |
| --- | --- |
| Name | Description |
| Image3.png [Extractor](#MmJCQ9KGAqAADg9G) | Manage all the interactions with the data. |
| Image3.png [MongoDBJDBC](#O41CQ9KGAqAADg9W) | Performs the connection with the database. |

### Image6.png Question

|  |  |
| --- | --- |
| Name | Value |
| Description | Question class in charge of getting the questions |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:24:15 | | Last Modified | 04-mar-2015 23:02:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| From | Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:25:41 | | Last Modified | 04-mar-2015 22:29:48 | |

### Image6.png Answer

|  |  |
| --- | --- |
| Name | Value |
| Description | Answer class in charge of getting the answers. |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:24:21 | | Last Modified | 04-mar-2015 23:02:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| From | Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:25:35 | | Last Modified | 04-mar-2015 22:29:48 | |

### Image7.png ParserGift

|  |  |
| --- | --- |
| Name | Value |
| Description | This is the parser instance in charge of analyze gift files. |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Indirectly Instantiated | true |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:30:51 | | Last Modified | 04-mar-2015 23:02:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [toJson](#8VCcQ9KGAqAADg7b) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [toJson](#8VCcQ9KGAqAADg7b) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:00 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:00 | | Last Modified | 04-mar-2015 22:20:50 | |

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| To | Image2.png [Answer](#Mqs1Z9KGAqCgAQuv) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:25:35 | | Last Modified | 04-mar-2015 22:29:48 | |

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| To | Image2.png [Question](#gb01Z9KGAqCgAQul) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:25:41 | | Last Modified | 04-mar-2015 22:29:48 | |

|  |  |
| --- | --- |
| Unnamed Usage | |
| To | Image5.png [N/A](#5FTdZ9KGAqCgAQ7q) |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:40:06 | | Last Modified | 04-mar-2015 22:42:23 | |
| Unnamed Generic Connector | |
| From | Image2.png [.GIFT File](#Dd6cQ9KGAqAADg7i) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:29:27 | | Last Modified | 04-mar-2015 22:29:48 | |

### Image7.png Extractor

|  |  |
| --- | --- |
| Name | Value |
| Description | Manage all the interactions with the data. |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Indirectly Instantiated | true |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:41:38 | | Last Modified | 04-mar-2015 23:22:25 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [MongoDBJDBC](#O41CQ9KGAqAADg9X) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [MongoDBJDBC](#O41CQ9KGAqAADg9X) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:10 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:10 | | Last Modified | 25-feb-2015 20:48:09 | |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [toJson](#8VCcQ9KGAqAADg7b) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [toJson](#8VCcQ9KGAqAADg7b) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:06 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:06 | | Last Modified | 04-mar-2015 22:20:50 | |

### Image7.png toJson

|  |  |
| --- | --- |
| Name | Value |
| Description | Converts a every question and answer into JSON |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Indirectly Instantiated | true |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:31:33 | | Last Modified | 04-mar-2015 23:12:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| To | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [Extractor](#MmJCQ9KGAqAADg9H) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [Extractor](#MmJCQ9KGAqAADg9H) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Mario | | Create Date Time | 25-feb-2015 20:46:06 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Mario | | Create Date Time | 25-feb-2015 20:46:06 | | Last Modified | 04-mar-2015 22:20:50 | |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [ParserGift](#xpYcQ9KGAqAADg60) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [ParserGift](#xpYcQ9KGAqAADg60) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:00 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:00 | | Last Modified | 04-mar-2015 22:20:50 | |

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| From | Image2.png [ParserBuilder](#fPItZ9KGAqCgAQ2T) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:32:47 | | Last Modified | 04-mar-2015 22:42:23 | |

### Image6.png .GIFT File

|  |  |
| --- | --- |
| Name | Value |
| Description | It is a file that contains all the questions and answers. |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:32:02 | | Last Modified | 04-mar-2015 22:52:23 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| To | Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:29:27 | | Last Modified | 04-mar-2015 22:29:48 | |

### Image8.png N/A

|  |  |
| --- | --- |
| Name | Value |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Leaf | false |
| Root | false |
| Stereotypes | Interface |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | daniel | | Create Date Time | 04-mar-2015 22:40:00 | | Last Modified | 04-mar-2015 22:42:23 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Realization | |
| To | Image3.png [Parser](#UR11Z9KGAqCgAQws) |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:40:00 | | Last Modified | 04-mar-2015 22:42:23 | |
| Unnamed Usage | |
| From | Image3.png [ParserGift](#xpYcQ9KGAqAADg6z) |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:40:06 | | Last Modified | 04-mar-2015 22:42:23 | |

### Image7.png Parser

|  |  |
| --- | --- |
| Name | Value |
| Description | Parser interface which goal is adapt the application to other fomats |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Indirectly Instantiated | true |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:26:25 | | Last Modified | 04-mar-2015 23:12:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Realization | |
| From | Image5.png [N/A](#5FTdZ9KGAqCgAQ7q) |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:40:00 | | Last Modified | 04-mar-2015 22:42:23 | |

### Image6.png ParserBuilder

|  |  |
| --- | --- |
| Name | Value |
| Description | Manage the data upload to the database |
| Visibility | Unspecified |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:32:31 | | Last Modified | 04-mar-2015 23:12:24 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Generic Connector | |
| To | Image3.png [toJson](#cVCcQ9KGAqAADg7a) |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 04-mar-2015 22:32:47 | | Last Modified | 04-mar-2015 22:42:23 | |

### Image7.png MongoDBJDBC

|  |  |
| --- | --- |
| Name | Value |
| Description | Performs the connection with the database. |
| Active | false |
| Business Key Mutable | true |
| Business Model | false |
| Visibility | public |
| Abstract | false |
| Leaf | false |
| Root | false |
| Indirectly Instantiated | true |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:42:05 | | Last Modified | 04-mar-2015 23:22:25 | |

#### Relationships

|  |  |
| --- | --- |
| Unnamed Association | |
| From | |  |  | | --- | --- | | Name | Value | | End Model Element | Image7.png [Extractor](#MmJCQ9KGAqAADg9H) | | Provide Property Getter Method | false | | Provide Property Setter Method | false | | Multiplicity | Unspecified | | Visibility | Unspecified | | Aggregation Kind | None | | Navigable | Navigable | | Derived | false | | Derived Union | false | | Read Only | false | | Static | false | | Leaf | false | | Type | Image7.png [Extractor](#MmJCQ9KGAqAADg9H) | | Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:10 | | |
| Abstract | false |
| Leaf | false |
| Visibility | Unspecified |
| Derived | false |
| Project Management | |  |  | | --- | --- | | Name | Value | | Author | Trivial\_i1a | | Create Date Time | 25-feb-2015 20:46:10 | | Last Modified | 25-feb-2015 20:48:09 | |

User´s system manual

General functionality

The command line usage of the application is:  
 java -jar extract.jar *<mode>* *<parameters>*

modes:  
 **-e** <input-file> <input-format> <output-file>: Extraction mode. The application is to process a file containing questions.  
 Parameters:  
 *<input-file>* - The filename containing the questions to be processed.  
 *<input-format>* - The format of the input file, which can only be *gift* for now.  
 *<output-file>* - The filename of the outputted file created by the application.  
 *<output-format>* - The format of the output file, which can only be *json* for now.

**-db** <input-file> <server>: Database storing mode.  
 Parameters:  
 *<input-file>* - The filename of the file with the JSON-formatted questions.  
 *<server>* - The server address, which is spelled ***address:port***. if left out is assumed to be localhost:27017.

GIFT format

|  |  |
| --- | --- |
| **// text** | Comment until end of line (optional) |
| **::title::** | Question title (optional) |
| **text** | Question text (becomes title if no title specified) |
| **{ ... =right ... }** | Correct answer for multiple choice, (multiple answer? -- see page comments) or fill-in-the-blank |
| **{ ... ~wrong ... }** | Incorrect answer for multiple choice or multiple answer |