IJ-Reflect User Manual

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IJburg College

Team:
IJB08

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1. Introduction

As students from the HvA (Hogeschool van Amsterdam), we had the PAD (Project Agile Development) project and our client was the secondary school the IJburg College. At IJburg, the students periodically fill in a paper form regarding their community skills. This activity was conceived as tedious and boring, so our job was to make it simple, interesting and perhaps even fun. From this project arose the IJ-Reflect browser application. We put our effort into making a web application that is interactive, intuitive and easy to use.

2. The IJ-Reflect manual

2.1 Workflow

2.1.1 Reflecting

The IJ-Reflect web application creates a means for students to reflect on their behaviour and skills. This is done by filling in a questionnaire with questions about what they would do in certain situations. Each questionnaire, or reflection, is filled in by a respondent.

There are four different respondent types:

- **'Ikzelf'** (This is you, the currently logged in user)
- **'Een medeleerling'** (A classmate or another student at your school)
- **'Een expert'** (A teacher on the IJburg College, called an 'expert')
- **'Een ouder/verzorger'** (Your parent or guardian)

When a respondent is chosen, a name should be given to this respondent, so the reflection can be identified by the respondent type and respondent name.
Once a respondent has a type and a name, a reflection can be started and the respondent is able to answer the questions. After filling in the reflection, an overview of the respondent's answers is given. The reflection is now done.

2.1.2 Periods

The IJ-Reflect application works with periods, which represent an undefined timespan, in which you can 'collect' reflections. Every reflection that is created, will be linked to the currently active period, which you can see at the 'Huidige Periode' screen. You can finish the current period whenever you want, but only if you have at least one completed reflection and no uncompleted reflections in the current period. Ideally, you will want to have at least one reflection per respondent type before finishing a period. After finishing a period, a new and empty one is created automatically.

When a period is finished, you can find it at the 'Voltooide periodes' screen. Every period that has been finished previously will be shown here, along with the reflections that belong with it. You will be able to view the radar chart for every finished period, which brings us to the 'Vergelijken' screen.

2.1.3 Comparing results

At the ‘Vergelijken’ screen, you will be able to compare your finished period results by displaying two periods in a radar chart, based on the different reflections that belong to each period and their scores.

In the next paragraphs, the workflow described above will be explained in further detail.

2.2 Starting a new reflection.

Step 1: To start off with your reflection, go to https://oege.ie.hva.nl/~mathijt001/

Step 2: Log in with your school Google+ account by clicking on the ‘Log in met Google’ button.

Step 3: To start a new reflection, click on the pencil icon on the left of the topbar or click on ‘Nieuwe Reflectie’ in the middle of the page.

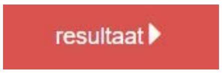
Step 4: You will be guided to the respondent selection screen. Choose the type of person who fills in the form for you. If you are the one who fills in the form, your name will be filled in automatically according to the name registered with your Google+ profile. If not, you will have to fill in the name of the person yourself. After providing the respondent info you can start the questionnaire by clicking on ‘Start de reflectie’.

2.3 Filling in the reflection

Step 1: Now you have started a new reflection, you willl see the question and its options on your screen. Click on ‘Toelichting’ for more information.

Hover over the circles or click on them. A description of the question will appear. After you have made a decision, click on the circle that fits most to your situation and personality. Then click on ‘Volgende vraag’. This will guide you to the next question.

Step 2: Repeat step 1 until you have filled in every question. To edit a certain answer to a question, click on the corresponding number on the questionnaire list on the bottom of the page. When you are satisfied with your answers, click on the ‘resultaat’ button at the final question. This will submit your reflection and the results will be saved.

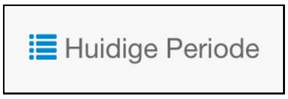


Step 3: After submitting your reflection, a page will be shown with an overview of all the questions and the answers you have submitted.

2.4 Managing your periods and reflections

2.4.1 Current period (Huidige Periode)

In the topbar is an icon for ‘Huidige Periode’, click on this to go to the ‘Huidige periode’ page.



This will show you the information of your current period.
It is possible to delete reflections or resume unfinished reflections on this page.

You can do the following things at this screen:

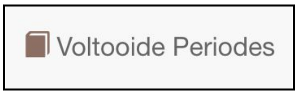
-  Rename the current period
-  Resume unfinished reflections
-  Delete reflections

Click on the button ‘Meer informatie’ under the name of your current period to see the number of reflections and the starting date of the period. It also shows the number of respondents, grouped by respondent type.

Under the ‘Meer informatie’ button is a ‘Sluit huidige periode af’ button. This button finishes your current period and a new one will be created automatically.

2.4.2 Finished periods (Voltooide Periodes)

Clicking on the third icon on the topbar leads you to the 'Voltooide periodes' page. Here you can see all your finished periods.



You are able to do several things at this screen:

-  View the results graph that belongs to this period
-  Rename periods
-  Delete periods
-  Delete reflections that belong to a period

2.5 Comparing results

Click on the last icon on the topbar to go to the 'Grafieken' page. To compare the results of two periods, select the two periods and a graph will appear for each period.

3. The Administration Manual

The administration accounts are used to manage the questions and categories of the reflections. Only administration accounts are allowed to perform such tasks. The reflections consist of questions and all questions belong to categories.

3.1 Overview, editing and removing

3.1.1 Questions

Click on ‘Beheer reflectiemodel’ or click on the pencil icon in the topbar. Then, click on ‘Bekijk alle vragen’. This screen acts as an overview of all the questions in the reflection. The available options are:

- Show the answers to the questions, by clicking on the arrow on the left of the question. Click on ‘Klap alles uit’ to expand all the tables showing the answers.
- Click on the yellow pencil icon on the right of a question to edit the question, the category it belongs to, and the answers.
- Click on the red button on the right of the pencil icon to remove a question in its entirety, including its answers.
- Click on the ‘Ga terug’ button to go back to the previous page.

3.1.2 Categories

Click on ‘Beheer reflectiemodel’ or click on the pencil icon in the topbar. Then, click on ‘Bekijk alle categorieën’. This screen acts as an overview of all the categories in the reflection. The available options are:

- Click on the name of the category, which is displayed in blue in the column named ‘Naam’, to access all the questions that are filed under this category.
- Click on the yellow pencil icon on the right of the description of a category to edit the category
- Click on the red button on the right of the description of a category to remove a category in its entirety, including its questions.
- Click on the ‘Ga terug’ button to go back to the previous page.

3.2 Adding

3.2.1 Questions

Click on ‘Beheer reflectiemodel’ or click on the pencil icon in the topbar. Then, click on ‘Voeg nieuwe vraag toe’. A page will appear where you are asked to fill in the elements of the question you want to add:

- ‘Naam van de vraag’ is the name of the question. It’s basically the question itself.
- ‘Categorie waarbij de vraag hoort’ is the category to which the question belongs to.
- ‘Optie 1’, ‘Optie 2’, etc. up to ‘Optie 5’ are the gradations of the answer to this question.
- To complete the addition of the question, click on ‘Voeg vraag toe’

3.2.2 Categories

Click on ‘Beheer reflectiemodel’ or click on the pencil icon in the topbar. Then, click on ‘Voeg nieuwe categorie toe’. A page will appear where you are asked to fill in the elements of the category you want to add:

- ‘Naam categorie’ is the name of the category.
- ‘Beschrijving’ is the description of this category.
- To complete the addition of the category, click on ‘Voeg categorie toe’.

4. System Installation Manual

4.1 Requirements

In order for this website to function, you will need the following things:

- Webserver that is able to host the website
- Domain name
- Database (relational)
- Google Account (to be able to link the project to an account for Google Login)

4.1.1 Webserver

The website needs to be hosted on a webserver. The files of the website need to be available on this server, in order for users to be able to access this website and for the website to process the user's requests. Several config files will need to be edited, if the website changes domains. The process of editing these files will be explained in paragraph 3.2.

4.1.2 Domain name

The website needs a domain name in order to be identified and found by users and browsers.

4.1.3 Database (relational)

The database used to develop this website is phpMyAdmin, which uses MySQL. We recommend using MySQL for this website and even though there are no other RDBMS' (relational database management system) tested in combination with this website, any RDBMS should be able to suffice. A config file needs to contain the credentials to access this database and an explanation as to how to edit this config file will be given in paragraph 3.2.

4.1.4 Google Credentials

This websites makes use of the Google Sign in for Google+ feature, which enables users to log in with their Google+ account on our website. This feature requires you to create a Google Developers Project to get a Google+ API Key.

You also need an OAuth 2.0 Client ID. With these two seperate credentials you will be able to obtain user data once you insert these credentials in the User_authentication.php file. This file holds the Google credentials for the IJ-Reflect website, handles the login requests and processes the data given back by Google, after providing Google with the user data.

4.2 Installation

4.2.1 Configuring CodeIgniter

4.2.1.1 Config

The first thing CodeIgniter (the PHP framework this website uses) needs is the base URL. This url needs to be set in a config.php file, located at:

```
root/application/config/config.php
```

Inside this file, there is a line of code that needs the base address of the website.

```
$config['base_url'] = 'http://example.com/';
```

Where 'http://example.com' should be your website's address.

4.2.1.2 Database

The next file that needs to be configured is database.php. This file is located at:

```
root/application/config/database.php
```

This file holds the database credentials. These lines of code need to be edited:

```
'hostname' => 'example.com',
'username' => 'yourUsernameHere',
'password' => 'yourPasswordHere',
'database' => 'yourDatabaseNameHere',
'dbdriver' => 'mysqli',
```

The 'dbdriver' can differ, depending on the driver you choose to use.
For more information about configuring your database in CodeIgniter, go to https://ellislab.com/codeigniter/user-guide/database/configuration.html.

4.2.2 Google Credentials

4.2.2.1 Creating a Google Developer Project

In order to make use of the Google+ Login functionality, a Google Developer Project needs to be created with the Google+ API enabled in the Developers Console.

A detailed explanation of the setup is given on Google's developers site on https://developers.google.com/+/web/signin/#enable_the_google_api.

4.2.2.2 Configuring User_authentication.php

After setting up your Google+ Project properly, a couple of credentials need to be set in the User_authentication.php file located at:

```
root/application/controllers/User_authentication.php
```

In this file, the following lines of code need to be edited where '`YOUR_INFO_HERE`' is present:

```
$client_id = 'YOUR_INFO_HERE.apps.googleusercontent.com';
$client_secret = 'YOUR_INFO_HERE';
$redirect_uri = base_url().'user_authentication';
$simple_api_key = 'YOUR_INFO_HERE';
```

4.2.3 Database dump

The logic behind this website is connected to a specific relational database schema, where the names of the tables and columns are of crucial for everything to work correctly. You will have to use the database schema provided with this project and import the schema in your RDBMS.

4.2.4 Finished

Hopefully the configuration went well and everything runs smoothly from here on out!

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