User Manual

Sons Of SWE - Project Marvin

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Informations about the manual

Version	1.0.0
Redaction	Cavallin Giovanni Panozzo Stefano
Verification	Favero Andrea
Approval	Thiella Eleonora
Use	External
Distribution	Vardanega Tullio Cardin Riccardo Red Babel

Description

This document is the user manual of the Project Marvin

Diary of changes

Version	Date	Description	Author	Role
1.0.0	2018-06-07	Approval	Thiella Eleonora	*Project responsible*
0.2.0	2018-06-06	Verification	Favero Andrea	*Verifier*
0.1.1	2018-06-05	Written the professor, student and problems sections	Panozzo Stefano	*Programmer*
0.1.0	2018-06-04	Verification	Favero Andrea	*Verifier*
0.0.4	2018-06-03	Incremented the university section and written the user insertion section	Cavallin Giovanni	*Programmer*
0.0.3	2018-06-02	Written the university section	Cavallin Giovanni	*Programmer*
0.0.2	2018-06-01	Written the introduction and installation sections	Panozzo Stefano	*Programmer*
0.0.1	2018-05-31	Written the document skeleton	Panozzo Stefano	*Programmer*

Contents

List of Figures

1 Introduction

This is the user manual of **Marvin**, a Đapp ran on the EVM, that shapes a subset of Uniweb functionalities. Uniweb is the University of Padua's informative system. It allows students to keep track of their academic carrier. Professors use Uniweb to see the lists of students that are registered to their exams and, see the exams to which they have been assigned.

More precisely:

A student will be able to:

- Accept or refuse a mark;
- Visualize his/her school records;
- Subscribe to an exam.

A professor will be able to:

- Visualize the exams to which he/her has been assigned;
- See the students registered to his/her exams.

The university and the administrators will be able to add, eliminate and modify:

- Academic years;
- Degree courses;
- Didactic activities;
- Exams;
- Users.

To use Marvin you need to install *MetaMask* to directly execute the Đapp on your browser.

All the users have to be logged through Metamask.

2 Installation

WARNING: This section is not complete. It will be completed when we implement all the features in the program

2.1 Requirements

- Mozilla Firefox version 50 or more
- Google Chrome version 60 or more

2.2 Metamask installation and configuration

Go to the site `https://metamask.io` .

If you're using Firefox, you will see a link named **GET FIREFOX ADDON**, click on it. Then click **Add to Firefox** and then click **Add** on the pop-up.

If you're using Chrome, you will see a link named **GET CHROME EXTENSION**, click on it. Then click **Add** and then click **Add extension** on the pop-up.

Now in the browser: click on the MetaMask icon on the top right and accept the Privacy Notice and the Terms of use by clicking on **Accept**.

2.3   Creation of a digital wallet

Insert a new password (it is needed to unlock the account) and click **CREATE** (as in Figure 1).
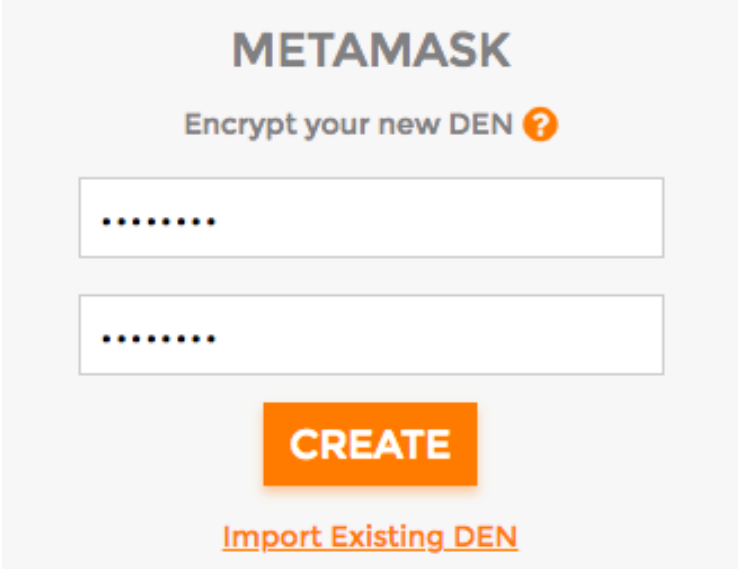

Figure 1: Setting the password

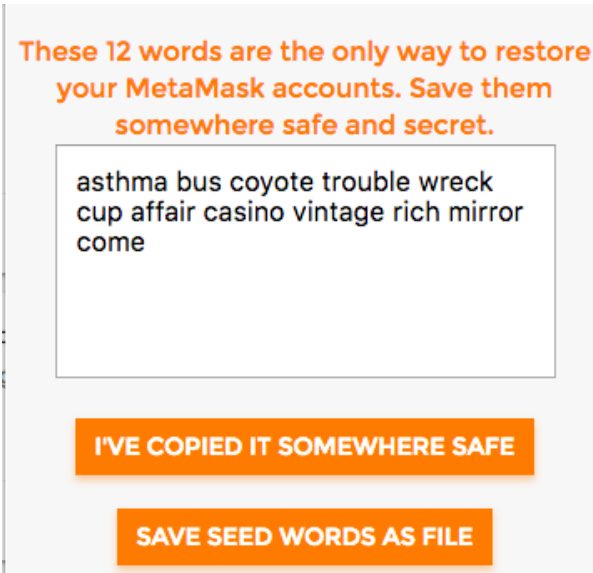Now store somewhere on your drive the 12 words seed phrase (an example of seed phrase is showed in Figure 2).

Figure 2: The seed phrase

2.4   Restore the digital wallet

You have the possibility to restore your account if you loose the password or change the browser or even the computer. The only thing you need to do is to click on the Metamask icon and then click on **Restore**

from seed phrase. Now paste inside the box the seed phrase that you have saved previously, insert a new password and click **OK**.

2.5 Connection to the application

This feature has not been implemented yet

Now you're able to use Marvin!

3 University

WARNING: This section is not complete. It will be completed when we implement all the features in the program

After the login you will be redirected to the page represented in Figure 3. As you can see, a black bar has appeared near the top of the screen. The black bar contains on its left the voices **Academic Years**, **Degree Courses** and **Didactic activities**. On the right it contains the voices **Administrators**, **Professors** and **Students**. The voices on the right allows the university to manage (create, visualize and delete) administrators, professors and students.
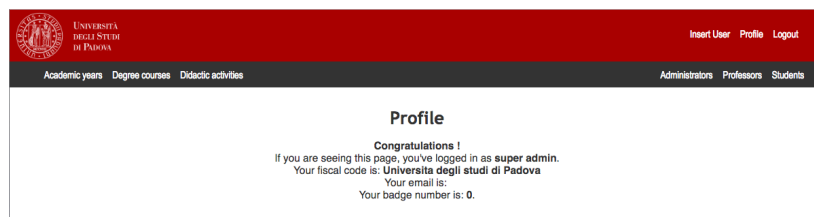

Figure 3: Login with University

3.1 Academic years

By clicking on the **Academic years** voice in the menu, you will see (as in Figure 4) a register of all the academic years inserted in the system. For each academic year you can *insert a degree course*, *modify the name of the academic year* and *delete the academic year*.
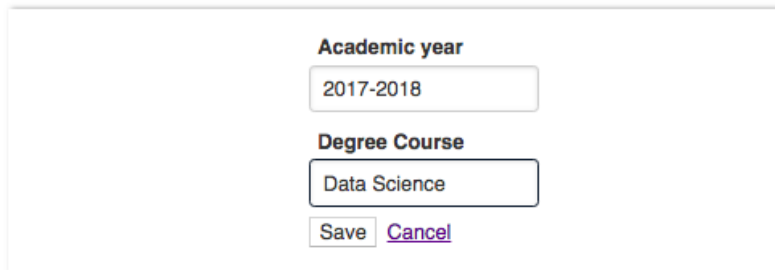

Figure 4: Register of the the academic years registered in the system.

3.1.1 Insertion of a degree course

Click on **Insert degree course**, you will be redirected to a page (like the one in Figure 5), insert the name of the degree course that you want to add and click the **save** button.

Insert degree course

Now you can insert a new degree course.

Academic year

2017-2018

Degree Course
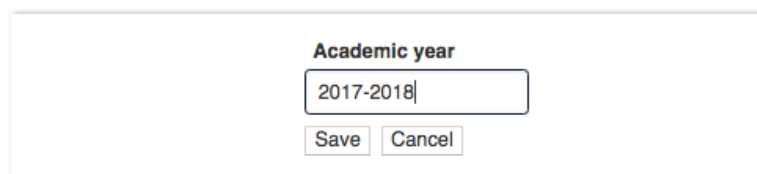
Data Science

Save Cancel

Figure 5: Insertion of a degree course.

3.1.2 Modify the name of the academic year

Click on the button **Modify**, you will be redirected to a page like the one in Figure 6, change the name of the academic year and click the **save** button.

Modify academic year

Now you can modify this academic year.

Academic year
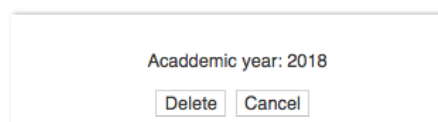
2017-2018

Save Cancel

Figure 6: Modification of an academic year.

3.1.3 Elimination of an academic year

Click on the button **Delete**, you will be redirected to a page (like the one in Figure 7) and click the **Delete** button to confirm the elimination.

Delete academic year

Are you sure you want to delete this academic year? Once you canceled it, you can't go back.

Acaddemic year: 2018

Delete Cancel

Figure 7: Elimination of an academic year.

3.2 Degree courses

By clicking on the **Degree courses** voice in the menu, you will see (as in Figure 8) a register of all the academic years inserted in the system for a specific academic year. For each degree course you can *insert a didactic activity*, *modify the name of the degree* and *delete it*.

Figure 8: Register of the admins in the system.

3.2.1 Insert a didactic activity

Click on the link **Insert didactic activity**, you will be redirected to a page like the one in Figure 9. You can insert the name of the activity, and also *insert an exam* related to it by clicking on the link **Insert an exam**.

Figure 9: Insertion of a didactic activity.

3.2.2 Modify the name of a degree

Click on the button **Modify**, you will be redirected to a page like the one in Figure 10, change the name of the degree and click the **save** button.
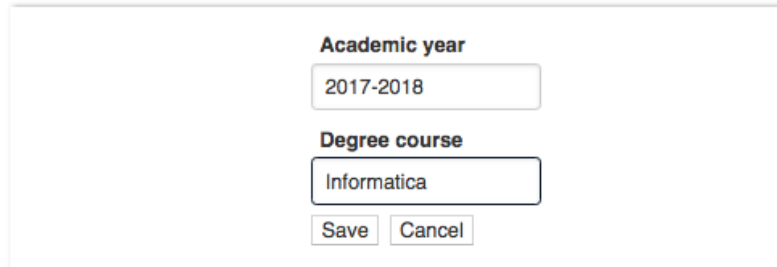
Figure 10: Modification of a degree.

3.2.3 Delete a degree

Click on the link **Insert didactic activity**, you will be redirected to a page (like the one in Figure 11). You can insert the name of the activity, and also *insert an exam* related to it by clicking on the link **Insert an exam**.
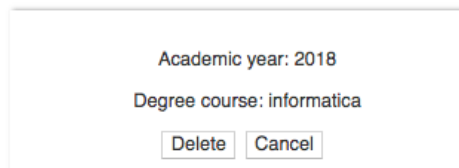

Figure 11: Elimination of a degree.

3.3 Didactic activities

This feature has not been implemented yet

3.3.1 Insert an exam

This feature has not been implemented yet

3.3.2 Modify a didactic activity

This feature has not been implemented yet

3.3.3 Delete a didactic activity

This feature has not been implemented yet

3.4 Administrators, Professors and Students management

When you choose one of those three categories, you will see (as in Figure 12) a register of all its users listed by their name, surname, badge number, fiscal code and univocal code. You can choose to eliminate one of the listed users simply by clicking on the delete button corresponding to the user.

Figure 12: Register of the admins in the system.

4 Administrators

An administrator has the same privileges of the university user but he can't create new administrator users.

5 User insertion

Only the university and the admins can create new users.

Inserting an user in the system is an operation that has two phases:

- The first one requires that the university (or an admin) creates a new account in the system inserting the fiscal code of the user and an unique code (as in Figure 13);

Figure 13: User insertion by an admin or university

- The second one is necessary to authenticate and identify the new user: in fact, the new user during the Sign Up will have to insert its own Fiscal Code and the Identification Code issued by the university (or an admin), and other data as in Figure 14. If this two data (Fiscal Code and Identification Code) are the same as those inserted by the University (or an admin), then all the user's personal data will

be saved and its Metamask address connected to the account, so that the next logins can be made automatically. If the form has been filled correctly, than a Metamask window will be opened in front of you. Confirm clicking the **SUBMIT** button.
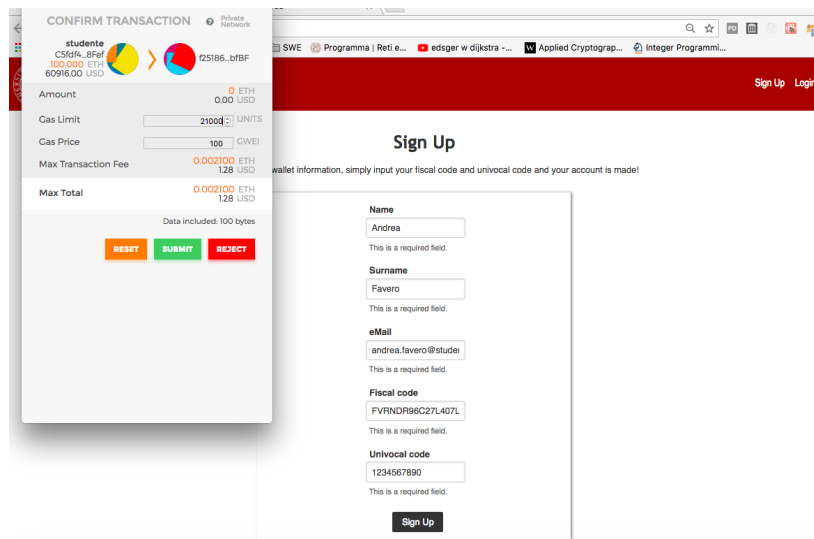

Figure 14: User Sign Up

6 Professors

After the login you will notice that a black bar has appeared near the top of the screen. The black bar contains on its left the voice **Exams list**.

If you click on that voice, you will be redirected to a page (similar to the one in Figure 15) that shows you the exams associated to you.

Figure 15: List of exams associated with the logged professor

7 Students

WARNING: This section is not complete. It will be completed when we implement all the features in the program
After the login you will notice that a black bar has appeared near the top of the screen. The black bar contains on its left the voices **Yours exams list** and **School records**.

7.1 Visualize the exams list

To see your exams list click on the voice **Yours exams list**, you will be redirected to a page (similar to the one in Figure 16) that shows the exam to which you can register and to which you are already registered.

Figure 16: List of exams to which the student can register and to which is already registered.

7.2 Visualize the school records

If you want to visualize the exams that you have already passed click on the voice **School records**, you will be redirected to a page (similar to the one in Figure 17) that shows all the exams that you can take. If the cells of the column named *status* are green, then you have passed those exam, otherwise you have not, in this way, you have a direct feedback regarding your university career.

Figure 17: List of the exams that the student has passed (status cell in green) and hasn't passed (status cell in yellow)

8 Problems with the software

Marvin isn't yet stable, so it is very likely that it contains errors.
You can report malfunctions to sonsofswe.swe@gmail.com