Requirements

myCash

Version 0.2 - May 20, 2018

Project Delivery Methodology (PDM)

**System Requirements**

**myCash**

VERSION: 0.2 REVISION DATE: 20/05/2018

Approval of the System Requirements indicates an understanding of the purpose and content described in this deliverable. By signing this deliverable, each individual agrees with the content contained in this deliverable.

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| --- | --- | --- | --- |
| **Approver Name** | **Title** | **Signature** | **Date** |
| Alonso Cerpa | Documentation of requirements |  | 20/05/2018 |
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# Section 1 Purpose

The purpose of the System Requirements document is to specify the overall system requirements that will govern the development and implementation of the system.

**Section 2 User Requirements**

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| Id User Req | Requirement | Class |
| A | The user can register in the system, entering his/her name, email, password, phone (optional) and extra email (optional). | Functional |
| B | The user can log in by entering his/her main email and password. | Functional |
| C | The user can modify in their profile their registration information (names, email, password, etc.). | Not Functional |
| D | The user can manage their income. | Functional |
| E | The user can manage their expenses. | Functional |
| F | A summary of the information on income, expenses and savings / losses will be displayed. | Functional |
| G | You can see a history of income and expenses. | Functional |
| H | The user can delete his account. | Functional |
| I | The user can add/edit/delete categories of incomes or expenses. | Not Functional |
| J | The user can send technical requests to the Administrator to help improve the system. | Not Functional |
| K | The Administrator can manage Technical Requests. | Not Functional |
| L | The Administrator can see a list of users and delete a selected user. | Not Functional |

**Section 3 System Requirements**

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| Id System Req | Id User Req Related | Requirement | Class |
| 1 | A | There will be a form for the user to register in the system, where it will be necessary to enter the name, main email, extra email (optional), phone (optional) and the password twice, for security reasons, and it will also be validated with regular expressions that the entry fields are filled properly (eg: name must contain only letters). | Functional |
| 2 | A | The registration information will be stored in a relational database (PostgreSQL). | Functional |
| 3 | B | There will be a form to login (main email and password), and regular expressions will be used to verify that the email is properly written. | Functional |
| 4 | C | Changes made to user information will be made in the database. | Not Functional |
| 5 | C | When modifying a field of the user information, it will be verified with regular expressions that the new value entered has the appropriate form. | Not Functional |
| 6 | D | The added income will be stored in the database, with the following information: name of the income, amount, category (work, rents, sales, etc.), effective date and creation date. | Functional |
| 7 | D | A list will be presented with the category of the income, and within each category there will be a list of income, you can select an income and see all your detailed information, edit all your respective information, or eliminate the income. | Functional |
| 8 | D | A new income classification may be added. | No Functional |
| 9 | D | A list of the last 10 incomes added will be displayed. | No Functional |
| 10 | E | The added expenses will be stored in the database, with the following information: name of the expense, amount, category (services, loans, food, etc.), effective date and creation date. | Functional |
| 11 | E | A list will be presented with the category of the expenses, and within each category there will be a list of expenses, you can select an expense and see all your detailed information, edit all your respective information, or eliminate the expense. | Functional |
| 12 | E | A new classification of expenses may be added. | Not Functional |
| 13 | E | A list with the last 10 expenses added will be displayed. | Not Functional |
| 14 | F | Several graphs will be displayed to visualize the summary information of income, expenses and savings / losses (bar chart, double bar chart, piechart and calendars), for each month and at day intervals. | Functional |
| 15 | F | Additional information about income and expenses will be displayed, with numeric data. For example: "Year: 2015, Month: May, Income: + $ 5000.00". | Functional |
| 16 | F | Information on savings / loss in numerical form corresponding to a period of time will be displayed. For example:    - "Year: 2016, Month: February, Savings: + $ 4895.00".    - "Year: 2017, Month: August, Day: 14, Loss: - $ 240.00". | Functional |
| 17 | F | When selecting a day you can see a list of the income or expenses of that day, separated by their classifications. | Functional |
| 18 | G | A calendar will be displayed so that you can select a specific day, then you will be able to see the expenses and incomes of that day, and edit them. | Functional |
| 19 | G | The days of the calendar will be painted with colors, red or green, red when that day money has been lost, and the tonality will be redder when the loss is greater and will be more transparent when the loss is less; and green when there has been a saving, and the tonality will be greener when the saving is greater and more transparent when the saving is lower. | Not Functional |
| 20 | H | If you delete your account, the account will go into an inactive state within the database. If the user tries to enter his inactive account, he can recover it. | Not Functional |
| 21 | I | The user can add categories (consisting only of the name of the category) to incomes or expenses, delete existing categories or edit a category (change its name). | Not Functional |
| 22 | J | The user can send Technical Requests to the Administrator so that he/she can manage them and improve the system.  The Technical Request consist of message and the ID of the user. | Not Functional |
| 23 | K | The Administrator can see a list of Technical Requests and set them as Checked so that the Technical Request don’t appear again in his list. | Not Functional |
| 24 | L | The Administrator can see a list of the users with their basic information (name, email and state) and also can select an user of the list and delete him/her (change his/her state to inactive). | Not Functional |