# Sprint Backlog, Iteration # 6

| User Story | Issue # | Task | Member responsible for the task | Task Assigned To | Estimated Effort per Task *(in hours)* | Priority: Must/ Should/ Could/ Won't haves |
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| As a developer, I want to have a draft of the structure of the Graphical User Interface | 121 | Updating the Main Page activity document. | Naqib | Naqib | 1 | Must |
| | 122 | Updating the Pair Page activity document | Naqib | Naqib | 1 | Must |
| | 123 | Updating the Friends Page activity document | Naqib | Naqib | 1 | Must |
| | 124 | Creating the Transaction Page activity document | Ashay | Ashay | 2 | Must |
| | 125 | Updating the Contact Page activity document | Ashay | Ashay | 1 | Must |
| | 127 | Creating the Friend Contacts Page activity document | Ashay | Ashay | 1 | Must |
| As a user, I want to optimize the addition of someone else | 132 | Documentation | Luat | Luat | 2 | Must |

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| their blockchain to my database. | 132 | Testing | Luat | Luat | 4 | Must |
| | 132 | Implementation | Luat | Luat | 4 | Must |
| As a developer, I want to be able to generate a public and private key pair per user using the ED25519 protocol. | 134 | Documentation | Jasper | Jasper | 2 | Must |
| | 134 | Testing | Jasper | Jasper | 4 | Must |
| | 134 | Implementation | Jasper | Jasper | 4 | Must |
| As a developer, I want to be able to save a generated public and private key pair per user in the database. | 139 | Documentation | Jasper | Jasper | 2 | Should |
| | 139 | Testing | Jasper | Jasper | 3 | Should |
| | 139 | Implementation | Jasper | Jasper | 4 | Should |
| **As a developer, I want to be able to use the generated public key in the genesis block as key attribute.** | | Documentation | Jasper | Jasper | 1 | Should |
| | | Testing | Jasper | Jasper | 4 | Should |
| | | Implementation | Jasper | Jasper | 4 | Should |

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| **As a developer, I want to automaticall encrypt my personal data with the AES-CBC encryption protocol upon creating a block.** | 138 | Testing | Luat | Luat | 1 | Should |
| | 138 | Implementation | Luat | Luat | 1 | Should |
| **As a developer, I want to automaticall decrypt my personal data with the AES-CBC encryption protocol upon reading out a block.** | 138 | Testing | Luat | Luat | 1 | Should |
| | 138 | Implementation | Luat | Luat | 1 | Should |
| **As a developer, I want to refactor my BlockController into multiple classes.** | 140 | Implementation | Ashay | Ashay | 4 | Should |
| | 140 | Testing | Ashay | Ashay | 4 | Should |
| | | Documentation | Ashay | Ashay | 1 | Should |
| As a developer, I want to be able to persist my user in the database | 136 | Documentation | Ashay | Ashay | 2 | Could |
| | 136 | Testing | Ashay | Ashay | 2 | Could |
| | 136 | Implementation | Ashay | Ashay | 2 | Could |
| As a developer, I want to be able to | 136 | Documentation | Ashay | Ashay | 1 | Could |

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| retrieve a user from the database | 136 | Testing | Ashay | Ashay | 1 | Could |
| | 136 | Implementation | Ashay | Ashay | 1 | Could |
| As a user, I want to be able to login/ register using a password | 133 | Documentation | Luat | Luat | 2 | Could |
| | 133 | Testing | Luat | Luat | 2 | Could |
| | 133 | Implementation | Luat | Luat | 4 | Could |
| As a developer, I want to be able to add a relation between the blocks table and user table | 137 | Documentation | Ashay | Ashay | 1 | Could |
| | 137 | Testing | Ashay | Ashay | 3 | Could |
| | 137 | Implementation | Ashay | Ashay | 3 | Could |
| As a developer, I want to create a UML to get a better overview of the classes in my code. | 135 | UML of all Model classes | Ymte | Ymte | 1 | Must |
| | 135 | UML of all View classes | Ymte | Ymte | 1 | Must |
| | 135 | UML of all Controller classes | Ymte | Ymte | 2 | Must |

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| As a developer, I want to use the BlockController instead of the BlockFactory to create blocks. | 131 | Refactoring inside main code | Ymte | Ymte | 2 | Should |
| | 131 | Refactoring inside unittests | Ymte | Ymte | 4 | Should |
| | 131 | Fixing failing unittests | Ymte | Ymte | 4 | Should |
| As a user, I want an algorithm that calculates user trust values more accurately using the inverse exponential function for successful transactions and exponential functions for failed transactions to increase/decrease the trust value. | 130 | Implementation | Ymte | Ymte | 2 | Could |
| | 130 | Testing | Ymte | Ymte | 1 | Could |
| | 130 | Documentation | Ymte | Ymte | 1 | Could |
| As a developer I want to extract an abstract class out of the adapters because I want to reduce duplicate code | 129 | Implementation | Ymte | Ymte | 2 | Could |
| | 129 | Documentation | Ymte | Ymte | 1 | Should |

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| As a user<br>I want to have user-friendly and self learning GUI<br>because I don't want to use a difficult application | 128 | Refactoring Main Page such that we have a login module and some nice buttons where we can surf through the pages. | Naqib | Naqib | 3 | Should |
| | 128 | Refactoring the Friends Page such that the trust is updated correctly, app should be able to assign the name, etc . | Luat | Luat | 2 | Should |
| | 128 | Refactoring DisplayContactFriendListActivity such that the addbutton for the pairing contact is removed, the trust graph to update properly | Luat | Luat | 2 | Should |
| | 128 | Refactoring the Contacts Page such that the buttons are not overlapping and the make a transaction is put somewhere else when the list of contacts is big. Also change the lay out and make the table more descriptive. | Naqib | Naqib | 3 | Should |
| | 128 | Refactoring the Pair Page such that we do not have hard coded test subjects. | Naqib | Naqib | 3 | Should |
| | 128 | Refactoring the Transaction Page such that the information of the transferor and transferee is retrieved via testable code and the budget is also updated correctly. | Naqib | Naqib | 4 | Should |
| | 128 | Refactoring the Friend Contact Page such that this is the same as the own contact list. You should not be able to revoke their contacts. | Naqib | Naqib | 2 | Should |
| As a developer<br>I want to create a databaseseeder, | 126 | Implementation | Naqib | Naqib | 4 | Must |
| | 126 | Testing | Naqib | Naqib | 4 | Must |

| such that it decreases duplicate code in the adapters. | 126 | Documentation | Naqib | Naqib | 2 | Must |
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